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Georgia Power

2025 Semiannual Groundwater Monitoring and Corrective Action Report

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

August 31, 2025



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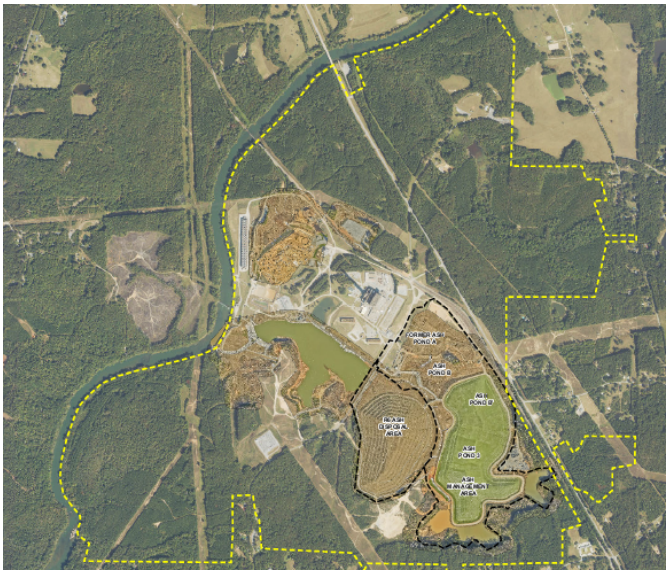


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Summary

This summary of the 2025 Semiannual Monitoring and Corrective Action Report provides the status of the groundwater monitoring and corrective action program from January through June 2025 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 6[1] 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.



Plant Yates and the site

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 June 2025 reporting period, the site remained in assessment monitoring following the August 31, 2022 submittal of the Draft Remedy Selection Report to GAEPD.

During the first half of 2025, 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 III[2] and Appendix IV[3] parameters[4] in the wells identified in the following table.

[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.

Appendix III Parameter	February 2025
Boron	YGWC-23S, YGWC-38, YGWC-41, YGWC-42, YGWC-43
Calcium	YGWC-36A, YGWC-38, YGWC-42
Sulfate	YGWC-36A, YGWC-42, YGWC-43
Total Dissolved Solids	YGWC-36A, YGWC-38, YGWC-42, YGWC-43
Appendix IV Parameter	February / May 2025
Cadmium	YGWC-50
Lithium	YGWC-42 , YAMW-3
Selenium	PZ-37

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. The SSLs for cobalt at YAMW-3 (February), and lithium at YGWC-42, are horizontally delineated by PZ-55 and vertically delineated by PZ-54D. An SSL for cadmium has been identified at YGWC-50 following the eighth quarterly sampling event in May 2025. Georgia Power will evaluate for the need for horizontal and vertical delineation for cadmium in the vicinity of YGWC-50 .

Based on review of the Appendix III and Appendix IV statistical results for the groundwater monitoring and corrective action program from January through June 2025, 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 initially submitted to GAEPD on August 31, 2022 (Arcadis 2022). GAEPD provided comments on the Draft Remedy Selection Report on February 14, 2023. A revised Draft Remedy Selection Report addressing cobalt, lithium, and selenium SSLs was submitted to GAEPD on September 30, 2024 (Arcadis 2024). While not part of the submitted Draft Remedy Selection Reports, the cadmium SSL at YGWC-50 is expected to be addressed with the proposed corrective measure. Additional evaluations will be performed to confirm this compatibility during subsequent semiannual groundwater monitoring events.

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 2025 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.



_____ 8/29/2025

J. Geoffrey Gay, P.E.
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Date

1 Introduction

This 2025 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 2025. 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 2025 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 through June of 2025 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 2024 Annual 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 groundwater monitoring well network is summarized in **Table 1** along with a series of piezometers installed to supplement groundwater elevation measurements. Upgradient monitoring well GWA-2 was abandoned on January 7, 2025 following the termination of the Gypsum Landfill Permit provided in GA EPD's November 25, 2024 letter. The historical data from GWA-2 will continue to be managed as part of the Site's upgradient well dataset.

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 2025 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**.

The groundwater sampling event conducted by Arcadis U.S., Inc. (Arcadis) in February 2025 at AP-3, A, B, B', and the R6 CCR Landfill are summarized in **Table 2**. The groundwater sample at YGWC-24SB was collected in March following well redevelopment. The eighth quarterly groundwater sample from YGWC-50 was collected in May. Field sampling logs are provided in **Appendix A**.

2.1 Monitoring Well 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.

Semiannual assessment monitoring at the site for Appendix III and Appendix IV parameters was conducted in February 2025 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**. Downgradient monitoring well YGWC-50 was sampled for the first time in August 2023. With the sample collected in May 2025, Georgia Power has completed eight background sampling events. Statistical analysis of data from YGWC-50 is included with this report.

2.3 Additional Groundwater Evaluations

Supplemental groundwater samples were collected from the detection and assessment well networks during the February 2025 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 were submitted on October 31, 2023 as requested by GAEPD. The results demonstrated that selenium can be successfully removed from groundwater using zero valent iron (ZVI) (Arcadis 2023). A revised Draft Remedy Selection Report was submitted to GAEPD on September 30, 2024 addressing cobalt, lithium, and selenium SSLs (Arcadis 2024).

To address the SSL at the time for cobalt at YAMW-3, potential future SSL for lithium at YAMW-3, and lithium SSL at YGWC-42, horizontal delineation well PZ-55 was installed in December 2023 northwest of YAMW-3**.** A vertical delineation well PZ-54D was installed in January 2024 near YAMW-3 (**Figure 3**). Groundwater concentrations for lithium and cobalt were below the Groundwater Protection Standards (GWPS) in PZ-55 and PZ-54D when sampled in February 2024 and June 2024, respectively. The February 2025 results from PZ-55 and PZ-54D remain below the GWPS.

Downgradient monitoring well YGWC-50 was sampled for the first time in August 2023. Quarterly groundwater sampling has been conducted to establish a statistically relevant dataset with the eighth sample collected in May 2025. An SSL for cadmium has been identified based on the statistical analysis discussed in Section 4. Georgia Power will evaluate for the need for horizontal and vertical delineation for cadmium in the vicinity of YGWC. While not part of the submitted Draft Remedy Selection Reports, the cadmium SSL at YGWC-50 is expected to be addressed with the proposed corrective measure. Additional evaluations will be performed to confirm this compatibility during subsequent semiannual groundwater monitoring events. An updated Draft Remedy Selection Report will be submitted in 2026.

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 2025 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 2025 representing the sitewide and AP-3, A, B, B' and the R6 CCR Landfill are provided on **Figures 4 and 5**. 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 2025 are presented in **Table 4**. The calculated average linear flow velocity for February 2025 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, a bladder pump or peristaltic pump was 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), or similar multiprobe 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;
- ± 5% for specific conductivity; and
- Less than 5 nephelometric turbidity units for turbidity
- ±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 2025 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 conducted in February 2025 for AP-3, B, B' and R6 CCR Landfill, March for YGWC-24SB, May for YGWC-50, 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) collected during the event are also included. 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 C**.

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 validated data meet project objectives and the associated data validation reports are provided in **Appendix B** along with the laboratory reports.

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 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 2025 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 1 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 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). USEPA revised the federal CCR Rule on July 30, 2018, updating GWPS for cobalt, lead, lithium, and molybdenum. As described in § 257.95(h)(1-3), the GWPS is defined by the below criteria. These criteria were adopted into the GA EPD Rules for Solid Waste Management 391-3-4-.10 on February 22, 2022.

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.
- Where an MCL has not been established 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.

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 2025 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 semiannual assessment monitoring events 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 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 SSIs from the semiannual event.

4.2.2 Appendix IV Assessment Monitoring Constituents

Statistical analysis of the 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: PZ-37 (February, August)
- Lithium: YGWC-42 and YAMW-3
- Cadmium: YGWC-50

Downgradient wells with SSLs were further evaluated using the Sen's Slope/Mann Kendall trend test. Upgradient wells are included in the trend analyses to identify whether similar patterns exist in upgradient wells for the same constituents (**Appendix C**). Statistically significant trends were identified for the following well/constituent pairs:

Decreasing trends:

- Selenium: PZ-37
- Lithium: YGWA-1D, YGWA-18I, YGWA-18S, and YGWA-47

YGWC-42 is the only downgradient well with an SSL that exhibits an increasing trend (for lithium). 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**. An Isoconcentration map from February (Selenium and Lithium) 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 and cobalt.

5.2 Remedy Selection Status

Lithium exhibited an SSL at YGWC-42 based on the February 2025 event. Cobalt has not exhibited an SSL at YAMW-3 for the past two events (August 2024 and February 2025). Horizontal and vertical delineation of cobalt and lithium was initiated in December 2023 and is complete as described in **Sections 2.1 and 2.4** and the data provided in **Table 6a**. A revised Draft Remedy Selection Report was submitted to GAEPD on September 30, 2024 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 for selenium, cobalt, and lithium. Cobalt has not exhibited an SSL for the previous two sampling events, and concentrations of lithium at YGWC-42 and YAMW-3 have remained stable since 2021. However, additional sampling events proposed over a five-year period will aid in understanding how concentrations respond to the closure of the R6 CCR Landfill. In support of Alternative Remedy No. 2: In Situ Injection, additional bench-scale treatability testing was completed for selenium, lithium, and cobalt; the results of the studies are presented in the revised Draft Remedy Selection Report (Arcadis 2024). 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;
- Lithium and/or cobalt concentrations are not decreasing after 10 semiannual sampling events (5 years);
- Near-source wells exhibit large concentration increases indicative of a new or renewed release;
- Selenium is identified above the GWPS 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 for selenium, cobalt, and lithium. As noted in Section 2.4, the cadmium SSL at YGWC-50 is expected to be addressed with the proposed corrective measure. Additional evaluations will be performed to confirm this compatibility during subsequent semiannual groundwater monitoring events.

6 Conclusions and Recommendations

This 2025 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 an identified SSL of selenium in PZ-37. An SSL of cobalt was initially identified at well YAMW-3 in August 2023; however, there has been no SSL over the last two sampling events (August 2024 and February 2025). An SSL for lithium was identified at wells YAMW-3 and YGWC-42 based on the February 2025 data. Delineation concentration data for the selenium and lithium SSLs provide spatial and vertical delineation to concentrations below the GWPSs. Georgia Power will evaluate the need for delineation of the cadmium SSL at YGW-50.

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 2025. 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 1
Monitoring Network Well Summary
2025 Semiannual Groundwater Monitoring and Corrective Action Report
Plant Yates - AP-3, A, B, B' and R6 CCR Landfill

Well ID	Well Designation	Location	Northing	Easting	Ground Surface Elevation (ft)	Top of Casing Elevation (ft)	Top of Screen Elevation (ft)	Bottom of Screen Elevation (ft)	Total Well Depth (ft bTOC)	Groundwater Zone Screened	Installation Date
YGWA-4I	Detection	Upgradient	1254436.68	2075455.62	781.9	784.21	745.70	735.70	48.81	PWR/Transition Zone	5/21/2014
YGWA-5I	Detection	Upgradient	1254399.95	2076218.86	782.1	784.54	735.90	725.90	58.94	PWR/Transition Zone	5/21/2014
YGWA-5D	Detection	Upgradient	1254396.67	2076223.63	781.9	784.53	705.70	655.70	129.13	Deep Bedrock	5/21/2014
YGWA-17S	Detection	Upgradient	1257602.79	2076758.31	780.2	783.05	753.20	743.20	39.85	Saprolite	9/10/2015
YGWA-18S	Detection	Upgradient	1257116.05	2077015.25	787.6	790.57	760.90	750.90	39.97	Saprolite	9/8/2015
YGWA-18I	Detection	Upgradient	1257090.05	2077015.82	787.9	790.57	720.90	710.90	79.97	PWR/Transition Zone	9/8/2015
YGWA-20S	Detection	Upgradient	1255531.55	2077410.37	764.6	767.12	747.90	737.90	29.52	Saprolite	9/29/2015
YGWA-21I	Detection	Upgradient	1255538.27	2076768.14	780.8	783.70	714.10	704.10	79.90	PWR/Transition Zone	9/28/2015
YGWA-39	Detection	Upgradient	1255717.13	2073865.58	815.6	818.19	760.10	750.10	68.59	Upper Fractured Bedrock	7/7/2016
YGWA-40	Detection	Upgradient	1255791.95	2073431.34	813.5	815.73	778.00	768.00	48.23	Upper Fractured Bedrock	7/7/2016
YGWA-1I	Detection	Upgradient	1256876.13	2070097.91	834.3	836.60	793.30	783.30	53.60	PWR/Transition Zone	5/20/2014
YGWA-1D	Detection	Upgradient	1256867.34	2070104.61	834.9	837.25	759.20	709.20	128.85	Deep Bedrock	5/20/2014
YGWA-2I	Detection	Upgradient	1256144.08	2070790.49	864.0	866.25	812.80	802.80	63.75	PWR/Transition Zone	5/20/2014
YGWA-3I	Detection	Upgradient	1256405.20	2072024.20	794.0	796.55	747.70	737.70	59.05	PWR/Transition Zone	5/20/2014
YGWA-3D	Detection	Upgradient	1256399.94	2072026.21	794.1	796.78	712.90	662.90	134.18	Deep Bedrock	5/20/2014
YGWA-14S	Detection	Upgradient	1257828.64	2072537.24	746.8	748.76	724.10	714.10	34.96	Saprolite	5/20/2014
YGWA-30I	Detection	Upgradient	1258421.86	2071107.11	760.1	762.58	713.40	703.40	59.48	PWR/Transition Zone	9/23/2015
YGWA-47	Detection	Upgradient	1262411.84	2071818.05	755.6	758.22	709.60	699.60	59.19	Bedrock	7/11/2016
GWA-2 [1]	Detection	Upgradient	1261383.11	2073509.98	803.1	805.62	763.80	753.80	52.02	Bedrock	4/12/2007
YGWC-23S	Detection	Downgradient	1256366.93	2074734.07	762.0	764.91	733.39	723.39	38.91	Saprolite	09/21/2015
YGWC-24SB	Detection	Downgradient	1258938.45	2073965.94	761.6	764.89	713.81	703.81	57.79	Saprolite	10/13/2022
YGWC-36A	Detection	Downgradient	1258547.74	2073748.73	737.7	740.88	696.52	686.52	51.20	Saprolite	09/22/2020
YGWC-38	Detection	Downgradient	1256108.38	2074446.80	797.1	799.69	757.51	747.51	49.89	Upper Fractured Bedrock	07/23/2016
YGWC-41	Detection	Downgradient	1256510.62	2073274.41	801.1	803.92	744.28	734.28	67.12	Upper Fractured Bedrock	07/08/2016
YGWC-42	Detection	Downgradient	1256882.87	2073326.52	795.1	797.86	745.74	735.74	59.76	Upper Fractured Bedrock	07/08/2016
YGWC-43	Detection	Downgradient	1257547.41	2073199.65	742.3	744.96	673.14	663.14	78.46	Upper Fractured Bedrock	07/09/2016
YGWC-49	Detection	Downgradient	1259375.23	2074337.51	780.1	782.73	712.47	702.47	78.53	PWR/Transition Zone	07/13/2016
YGWC-50	Detection	Downgradient	1258123.39	2073321.00	726.5	729.78	698.78	688.78	39.28	Saprolite	10/14/2022
PZ-35	Assessment	Downgradient	1258593.16	2073805.60	740.9	743.81	701.99	691.99	49.21	Saprolite/PWR	07/20/2016
PZ-37D	Assessment	Downgradient	1256478.32	2074688.08	758.8	761.12	566.5	556.48	202.30	Deep Bedrock	04/16/2021
PZ-52D	Assessment	Downgradient	1256463.09	2074676.14	759.9	762.79	675.01	665.01	94.89	Deep Bedrock	09/28/2021
PZ-54D	Assessment	Downgradient	1256904.08	2073369.06	792.5	795.56	665.44	655.44	137.36	Deep Bedrock	01/22/2024
PZ-55	Assessment	Downgradient	1257131.73	2073193.74	771.3	774.02	713.58	703.58	68.02	Upper Fractured Bedrock	12/16/2023
YAMW-1	Assessment	Downgradient	1258602.12	2073814.55	740.9	743.83	680.97	670.97	72.93	Upper Fractured Bedrock	09/19/2018
YAMW-2	Assessment	Downgradient	1256780.59	2072924.89	777.9	781.04	741.42	731.42	46.78	Deep Bedrock	11/12/2019
YAMW-3	Assessment	Downgradient	1256915.25	2073345.21	793.2	796.05	711.76	701.76	91.74	Deep Bedrock	11/06/2019
YAMW-4	Assessment	Downgradient	1256532.64	2073280.71	802.6	805.59	716.05	706.05	96.85	Deep Bedrock	11/07/2019
YAMW-5	Assessment	Downgradient	1256140.21	2074486.69	785.9	788.90	705.56	695.56	90.64	Deep Bedrock	11/13/2019
PZ-04S	Piezometer	Downgradient	1254442.86	2075454.20	781.8	784.25	759.35	749.35	32.75	Saprolite	05/21/2014
PZ-05S	Piezometer	Downgradient	1254404.42	2076211.43	782.2	784.64	750.56	740.56	41.94	Saprolite	05/21/2014
PZ-06D	Piezometer	Downgradient	1260480.15	2074782.68	779.5	782.02	695.78	645.78	134.02	Deep Bedrock	05/19/2014
PZ-24IB	Piezometer	Downgradient	1258927.49	2073952.22	761.9	764.92	698.88	688.88	73.42	Transition Zone/Upper Fractured Bedrock	10/11/2022
PZ-37	Piezometer	Downgradient	1256471.14	2074699.59	758.0	760.78	718.72	708.72	49.78	Upper Fractured Bedrock	07/06/2016
PZ-48	Piezometer	Downgradient	1259868.04	2074528.00	777.2	779.83	728.77	718.77	58.73	Upper Fractured Bedrock	07/11/2016
PZ-51	Piezometer	Downgradient	1257595.80	2073182.55	741.3	744.30	714.98	704.98	36.32	Upper Fractured Bedrock	11/08/2019
PZ-53D	Piezometer	Downgradient	1256463.09	2074676.14	759.9	762.80	607.00	597.00	162.90	Deep Bedrock	09/28/2021
YGWA-6I	Piezometer	Downgradient	1260490.02	2074790.49	780.2	782.73	721.47	711.47	69.03	Upper Fractured Bedrock	05/19/2014
YGWA-6S	Piezometer	Upgradient	1260484.87	2074786.49	779.8	782.47	750.23	740.23	39.87	Saprolite	05/19/2014
PZ-56D	Piezometer	Downgradient	1256904.08	2073369.06	792.5	795.56	607.50	597.50	198.36	Deep Bedrock	1/22/2024

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

Northing and Easting Georgia State Plane West, NAD83

[1] GWA-2 was not sampled during this reporting period. GWA-2 was abandoned on January 7, 2025. The historical data will continue to be managed with the sitewide background dataset.

Acronyms and Abbreviations:
bTOC = below top of casing
ft = feet
PWR = Partially Weathered Rock

Table 2
Groundwater Sampling Plan
2025 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 25 - 27, 2025
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
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
YGWC-50 [4]	Downgradient	X
PZ-55	Downgradient	X
PZ-54D	Downgradient	X

Notes:

1. All wells analyzed for Appendix III and Appendix IV.
2. Wells from other units comprising sitewide pooled upgradient network.
3. Additional development on March 13, 2025, sampled March 17, 2025
4. YGWC-50 additional sampled on May 21, 2025

Appendix III = Consituents for Detection Monitoring - 40 CFR Part 257 Appendix III

Appendix IV = Consituents for Assessment Monitoring - 40 CFR Part 257 Appendix IV

Table 3
Summary of Groundwater Elevations - February 2025
2025 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				
YGWC-23S	2/24/2025	764.95	16.80	748.15
YGWC-24SB	2/24/2025	765.00	25.14	739.86
YGWC-36A	2/24/2025	739.61	6.98	732.63
YGWC-38	2/24/2025	799.69	31.40	768.29
YGWC-41	2/24/2025	803.92	30.31	773.61
YGWC-42	2/24/2025	797.86	29.73	768.13
YGWC-43	2/24/2025	744.96	16.07	728.89
YGWC-49	2/24/2025	782.73	33.15	749.58
YGWC-50	2/24/2025	729.78	4.35	725.43
PZ-35	2/24/2025	743.81	7.98	735.83
PZ-04S	2/24/2025	784.25	25.81	758.44
PZ-05S	2/24/2025	784.64	19.92	764.72
YGWA-6S	2/24/2025	782.47	20.96	761.51
YGWA-6I	2/24/2025	782.73	21.26	761.47
PZ-06D	2/24/2025	782.02	23.68	758.34
PZ-24IB	2/24/2025	764.92	25.51	739.41
PZ-37	2/24/2025	760.78	11.08	749.70
PZ-37D	2/24/2025	761.12	3.27	757.85
PZ-48	2/24/2025	779.83	22.52	757.31
PZ-51	2/24/2025	744.30	7.40	736.90
PZ-52D	2/24/2025	762.79	7.31	755.48
PZ-53D	2/24/2025	762.80	4.83	757.97
PZ-54D	2/24/2025	795.56	65.39	730.17
PZ-56D	2/24/2025	795.56	42.98	752.58
PZ-55	2/24/2025	774.02	28.21	745.81
YAMW-1	2/24/2025	743.83	7.48	736.35
YAMW-2	2/24/2025	781.04	22.80	758.24
YAMW-3	2/24/2025	796.05	37.30	758.75
YAMW-4	2/24/2025	805.59	33.78	771.81
YAMW-5	2/24/2025	788.90	16.29	772.61
Upgradient Wells				
YGWA-4I	2/24/2025	784.21	24.32	759.89
YGWA-5I	2/24/2025	784.54	19.97	764.57
YGWA-5D	2/24/2025	784.53	20.46	764.07
YGWA-17S	2/24/2025	783.05	12.19	770.86
YGWA-18S	2/24/2025	790.57	21.32	769.25
YGWA-18I	2/24/2025	790.57	24.30	766.27
YGWA-20S	2/24/2025	767.12	11.42	755.70
YGWA-21I	2/24/2025	783.70	31.70	752.00
YGWA-39	2/24/2025	818.19	20.88	797.31
YGWA-40	2/24/2025	815.73	24.86	790.87
YGWA-1I	2/24/2025	836.60	39.09	797.51
YGWA-1D	2/24/2025	837.25	50.35	786.9
YGWA-2I	2/24/2025	866.25	46.68	819.57
YGWA-3I	2/24/2025	796.55	52.34	744.21
YGWA-3D	2/24/2025	796.78	5.16	791.62
YGWA-14S	2/24/2025	748.76	15.91	732.85
YGWA-30I	2/24/2025	762.58	42.97	719.61
YGWA-47	2/24/2025	758.22	35.60	722.62

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 2025
2025 Semiannual Groundwater Monitoring and Corrective Action Report
Plant Yates - AP-3, A, B, B' and R6 CCR Landfill

Equation

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

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-24IB	1,002	feet	
YGWC-6S to PZ-35	1,002	feet	
Groundwater Elevation			Date Collected:
YGWA-40	790.87	feet	February 2025
YGWC-42	768.13		
YGWC-49	749.58		
PZ-24IB	739.41		
			Hydraulic gradient from:
i_1 =	0.021	unitless	YGWA-40 to YGWC-42 (Feb. 2025)
i_2 =	0.010	unitless	YGWC-49 to PZ-24IB (Feb. 2025)
i_{avg} =	0.015	unitless	Average
n_e =	0.20	unitless	See note 2

Minimum Linear Flow Velocity

February 2025

$$V_{min} = \frac{(0.28)\,(0.015)}{0.20}$$

V_{min} = 0.02 ft/day, or 8.2 ft/year

Maximum Linear Flow Velocity

February 2025

$$V_{max} = \frac{(10)\,(0.015)}{0.2}$$

V_{max} = 0.75 ft/day, or 274 ft/year

Average Linear Flow Velocity

February 2025

$$V_{avg} = \frac{(0.8)(0.015)}{0.2}$$

Vavg = 0.06 ft/day, or 23 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 K_{avg}

2. Default value recommended by USEPA for silty sand-type soil (USEPA 1989).

Table 5
Summary of Groundwater Monitoring Parameters
2025 Semiannual Groundwater Monitoring and Corrective Action Report
Plant Yates - A-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 2025
2025 Semiannual Groundwater Monitoring and Corrective Action Report
Plant Yates - A-3, A, B, B' and R6 CCR Landfill

Analyte	Units	PZ-35 2/25/2025	PZ-37 2/27/2025	PZ-37D 2/27/2025	PZ-51 2/27/2025	PZ-52D 2/27/2025	PZ-54D 2/27/2025	PZ-55 2/27/2025	YAMW-1 2/26/2025	YAMW-2 2/26/2025	YAMW-3 2/26/2025	YAMW-4 2/26/2025	YAMW-5 2/27/2025	YGWA-4I 2/25/2025	YGWA-5D 2/25/2025
Appendix III															
pH	SU	5.20	5.16	8.00	4.80	5.90	5.76	5.49	5.40	5.41	5.62	5.60	5.41	5.98	7.40
Boron	mg/l	0.25	9.6	0.72	7.3	2.2	1.6	3.8	2.4	0.052	10.3	4.7	7.4	< 0.0062	0.0078 J
Calcium	mg/l	41.4	110	68.8	61.1	24.8	62.4	21.2	50.7	2.3	43.7	15.7	54.3	8.1	25.9
Chloride	mg/l	4.2	5.0	10.3	4.1	1.4	5.0	3.9	5.2	2.1	3.8	1.5	3.3	4.5	2.8
Fluoride	mg/l	0.055 J	0.064 J	0.20	0.11	0.064 J	0.10	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.050 J	0.061 J	0.082 J
Sulfate	mg/l	165	420	194	314	279	161	128	239	8.1	357	213	321	7.4	4.6
Total Dissolved Solids	mg/l	373	868	497	619	580	614	273	499	47.0	732	456	652	105	146
Appendix IV															
Antimony	mg/l	< 0.00050	0.0010 J	< 0.00050	< 0.00050	0.016	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050
Arsenic	mg/l	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	0.0021 J	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012
Barium	mg/l	0.25	0.023	0.021	0.015	0.016	0.040	0.044	0.083	0.010	0.034	0.0033 J	0.038	0.013	0.0081
Beryllium	mg/l	0.0026	0.0015	< 0.00015	0.0039	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	0.00016 J	< 0.00015	< 0.00015
Cadmium	mg/l	0.00074	0.00078	< 0.00012	0.0018	0.00025 J	< 0.00012	0.00071	0.00021 J	< 0.00012	0.00022 J	< 0.00012	0.00021 J	< 0.00012	< 0.00012
Chromium	mg/l	0.0015 J	< 0.0012	< 0.0012	< 0.0012	0.0013 J	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012
Cobalt	mg/l	< 0.0012	0.0019 J	< 0.0012	0.0043 J	0.0035 J	0.0034 J	< 0.0012	0.0040 J	< 0.0012	0.028	< 0.0012	< 0.0012	< 0.0012	< 0.0012
Fluoride	mg/l	0.055 J	0.064 J	0.20	0.11	0.064 J	0.10	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.050 J	0.061 J	0.082 J
Lead	mg/l	0.00039 J	< 0.00025	< 0.00025	< 0.00025	0.0010	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025
Lithium	mg/l	0.00438 J	0.0172 J	0.0102 J	0.00602 J	0.0331	0.0237 J	0.00343 J	0.0285 J	< 0.000600	0.0573	0.0404	0.0168 J	0.0125 J	0.00582 J
Mercury	mg/l	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012
Molybdenum	mg/l	< 0.0025	< 0.0025	0.0043 J	< 0.0025	0.0079 J	0.017	< 0.0025	< 0.0025	< 0.0025	0.0046 J	0.0075 J	< 0.0025	< 0.0025	< 0.0025
Combined Radium - 226/228	pCi/l	0.807 U	0.883 U	2.37	0.867 U	0.702 U	0.730 U	0.875 U	0.645 U	0.0371 U	1.63	0.314 U	0.644 U	1.54	3.65
Selenium	mg/l	0.0041 J	0.11	< 0.0012	0.021	0.0098	< 0.0012	0.022	0.0071	< 0.0012	0.028	0.013	0.056	< 0.0012	< 0.0012
Thallium	mg/l	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015
Other Parameters															
Alkalinity, Bicarbonate	mg/L as $CaCO_3$	5.3	22.1	116	< 5.0	26.8	300	17.0	23.7	26.7	54.3	58.6	14.7	48.3	102
Alkalinity, Carbonate	mg/L as $CaCO_3$	5.3	22.1	116	< 5.0	26.8	300	17.0	23.7	26.7	54.3	58.6	14.7	48.3	102
Alkalinity	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	< 5.0	< 5.0
Magnesium	mg/L	21.3	63.1	12.0	50.2	58.1	10.2	22.3	39.7	2.6	68.0	50.8	52.5	4.7	4.4
Potassium	mg/L	2.8	5.0	6.0	4.3	9.0	2.9	4.3	9.1	1.4	12.8	7.3	7.9	3.6	3.6
Sodium	mg/L	17.4	25.6	66.9	17.4	45.4	131	17.5	25.5	11.3	48.5	25.0	37.2	10.1	9.2

Notes:
Analytical results are reported in milligrams per liter except for
Appendix III = Consituents for Detection Monitoring - 40 CFR Part 257 Appendix III

Appendix IV = Consituents for Assessment Monitoring - 40 CFR Part 257 Appendix IV

Acronyms and Abbreviations:
mg/L = milligrams per liter
pCi/L = picoCuries per liter

NA = Not Analyzed

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

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 precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualifited by the laboratory as estimated.

Table 6a
Groundwater Analytical Data - February 2025
2025 Semiannual Groundwater Monitoring and Corrective Action Report
Plant Yates - A-3, A, B, B' and R6 CCR Landfill

Analyte	Units	YGWA-5I 2/25/2025	YGWA-17S 2/25/2025	YGWA-18I 2/25/2025	YGWA-18S 2/25/2025	YGWA-20S 2/25/2025	YGWA-21I 2/25/2025	YGWC-23S 2/27/2025	YGWC-24SB 3/17/2025	YGWC-36A 2/26/2025	YGWC-38 2/26/2025	YGWC-41 2/26/2025	YGWC-42 2/26/2025	YGWC-43 2/26/2025	YGWC-49 2/26/2025	YGWC-50 2/26/2025	YGWC-50 5/21/2025
Appendix III																	
pH	SU	5.77	5.59	6.00	6.26	6.07	6.55	5.50	5.65	5.13	5.08	4.77	5.42	5.65	5.75	5.00	5.08
Boron	mg/l	< 0.0062	0.0093 J	< 0.0062	< 0.0062	< 0.0062	0.0066 J	1.8	< 0.0062	0.23 J	3.1	3.6	12.9	3.8	0.0087 J	23.5	21.1
Calcium	mg/l	2.8	3.0	5.3	0.88 J	2.6	6.0	16.2	2.9	47.4	39.2	14.2	70.4	17.1	10.9	312	276
Chloride	mg/l	4.4	11.4	7.0	6.5	2.6	2.0	2.8	8.6	4.5	3.9	3.6	2.9	2.6	3.7	9.7	10.6
Fluoride	mg/l	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.088 J	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.077 J	0.070 J
Sulfate	mg/l	2.2	3.6	< 0.50	0.59 J	< 0.50	3.3	92.2	< 0.50	199	159	96.4	432	187	56.8	1040	1220
Total Dissolved Solids	mg/l	83.0	93.0	110	69.0	69.0	110	218	70.0	421	347	215	849	415	150	2040	2090
Appendix IV																	
Antimony	mg/l	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	0.00054 J	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	0.00062 J	<0.0050
Arsenic	mg/l	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	<0.012
Barium	mg/l	0.020	0.018	0.021	0.014	0.015	0.0077	0.080	0.027	0.073	0.017	0.021	0.023	0.031	0.055	0.017	0.015 J
Beryllium	mg/l	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	0.00030 J	0.00016 J	0.0030	0.0018	0.0015	< 0.00015	0.00057	< 0.00015	0.0030	0.0026 J
Cadmium	mg/l	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	0.00019 J	0.00064	< 0.00012	< 0.00012	< 0.00012	< 0.00012	0.011	0.0079
Chromium	mg/l	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	0.0021 J	< 0.0012	<0.012
Cobalt	mg/l	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	0.041	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	0.0020 J	< 0.0012	< 0.0012	0.0044 J	<0.012
Fluoride	mg/l	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.088 J	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.077 J	0.070 J
Lead	mg/l	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	<0.0025
Lithium	mg/l	0.00364 J	< 0.000600	0.00373 J	0.00129 J	< 0.000600	0.00670 J	0.00324 J	0.000839 J	0.00237 J	0.00621 J	0.00235 J	0.0556	0.0189 J	0.00330 J	0.00277 J	0.00292 J
Mercury	mg/l	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.000091	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	<0.000091
Molybdenum	mg/l	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	<0.025
Combined Radium - 226/228	pCi/l	0.767 U	0.0768 U	0.391 U	0.359 U	1.20 U	1.14 U	0.923 U	0.327 U	0.507 U	0.925 U	0.612 U	0.798 U	4.55	1.19	1.03 U	0.863 U
Selenium	mg/l	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	0.044	< 0.0012	0.0054	0.045	0.023	0.036	< 0.0012	0.0059	< 0.0012	<0.012
Thallium	mg/l	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	0.00015 J	<0.0015
Other Parameters																	
Alkalinity, Bicarbonate	mg/L as $CaCO_3$	25.4	14.3	35.3	9.3	25.9	68.2	13.0	14.2	5.8	12.9	6.3	34.1	32.9	17.3	33.2	NA
Alkalinity, Carbonate	mg/L as $CaCO_3$	25.4	14.3	35.3	9.3	25.9	68.2	13.0	14.2	5.8	12.9	6.3	34.1	32.9	17.3	33.2	NA
Alkalinity	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	< 5.0	< 5.0	< 5.0	NA
Magnesium	mg/L	2.7	1.0	3.0	0.94	0.60	3.2	13.9	1.6	22.7	21.1	17.6	73.8	35.5	7.3	129	NA
Potassium	mg/L	1.6	0.41 J	1.0	0.52	0.58	3.0	1.4	1.4	2.6	3.5	2.3	11.9	7.7	1.7	4.9	NA
Sodium	mg/L	11.0	15.0	12.2	8.8	9.4	19.9	20.1	10.4	24.4	18.3	14.6	31.7	20.6	17.1	25.7	NA

Notes:
Analytical results are reported in milligrams per liter except for
Appendix III = Consituents for Detection Monitoring - 40 CFR Part 257 Appendix III

Appendix IV = Consituents for Assessment Monitoring - 40 CFR Part 257 Appendix IV

Acronyms and Abbreviations:
mg/L = milligrams per liter
pCi/L = picoCuries per liter

NA = Not Analyzed

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

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 precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualifited by the laboratory as estimated.

Table 6b
Upgradient Groundwater Analytical Data - February 2025
2025 Semiannual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - AP-3, B, B', and R6 CCR Landfill

Analyte	Units	YGWA-1I 2/25/2025	YGWA-1D 2/25/2025	YGWA-2I 2/25/2025	YGWA-3I 2/25/2025	YGWA-3D 2/25/2025	YGWA-4I 2/25/2025	YGWA-5I 2/25/2025
Appendix III								
pH	SU	6.02	7.18	7.14	7.55	7.79	5.98	5.77
Boron	mg/l	< 0.0062	< 0.0062	< 0.0062	< 0.0062	< 0.0062	< 0.0062	< 0.0062
Calcium	mg/l	1.8	16.4	27.3	21.2	27.9	8.1	2.8
Chloride	mg/l	1.1	0.90 J	0.77 J	0.90 J	0.94 J	4.5	4.4
Fluoride	mg/l	0.060 J	0.094 J	0.12	0.14	0.45	0.061 J	< 0.050
Sulfate	mg/l	3.5	10.4	13.8	10.9	6.7	7.4	2.2
Total Dissolved Solids	mg/l	47.0	121	156	136	147	105	83.0
Appendix IV								
Antimony	mg/l	< 0.00050	< 0.00050	< 0.00050	< 0.00050	0.00072 J	< 0.00050	< 0.00050
Arsenic	mg/l	< 0.0012	0.0016 J	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012
Barium	mg/l	0.0083	0.0071	0.0037 J	0.0036 J	0.0059	0.013	0.020
Beryllium	mg/l	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015
Cadmium	mg/l	< 0.00012	< 0.00012	< 0.00012	0.00046 J	0.00051	< 0.00012	< 0.00012
Chromium	mg/l	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012
Cobalt	mg/l	0.0014 J	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012
Fluoride	mg/l	0.060 J	0.094 J	0.12	0.14	0.45	0.061 J	< 0.050
Lead	mg/l	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025
Lithium	mg/l	0.00270 J	0.00366 J	0.00111 J	0.0168 J	0.0219 J	0.0125 J	0.00364 J
Mercury	mg/l	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012
Molybdenum	mg/l	0.0032 J	0.010	0.0069 J	0.0086 J	0.017	< 0.0025	< 0.0025
Combined Radium - 226/228	pci/l	0.978 U	1.24	0.123 U	1.46	3.04	1.54	0.767 U
Selenium	mg/l	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012
Thallium	mg/l	< 0.00015	< 0.00015	< 0.00015	0.00053 J	0.00043 J	< 0.00015	< 0.00015
Other Parameters								
Alkalinity	mg/L as $CaCO_3$	15.0	65.2	99.8	89.6	103	48.3	25.4
Alkalinity, Bicarbonate	mg/L as $CaCO_3$	15.0	65.2	99.8	89.6	103	48.3	25.4
Alkalinity, Carbonate	mg/L as $CaCO_3$	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Magnesium	mg/L	1.4	1.9	4.1	5.3	3.7	4.7	2.7
Potassium	mg/L	2.0	4.7	5.0	5.0	3.6	3.6	1.6
Sodium	mg/L	4.8	11.8	8.9	8.8	9.7	10.1	11.0

Notes:
Appendix III = Consituents for Detection Monitoring - 40 CFR Part 257
Appendix IV = Consituents for Assessment Monitoring - 40 CFR Part 257

Acronyms and Abbreviations:
mg/L = milligrams per liter
pCi/L = picoCuries per liter
< = Analyte was not detected above the laboratory method detection limit (MDL)
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 precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualifited by the laboratory as estimated.

Table 6b
Upgradient Groundwater Analytical Data - February 2025
2025 Semiannual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - AP-3, B, B', and R6 CCR Landfill

Analyte	Units	YGWA-5D 2/25/2025	YGWA-14S 2/25/2025	YGWA-17S 2/25/2025	YGWA-18S 2/25/2025	YGWA-18I 2/25/2025	YGWA-20S 2/25/2025	YGWA-21I 2/25/2025
Appendix III								
pH	SU	7.40	5.16	5.59	6.26	6.00	6.07	6.55
Boron	mg/l	0.0078 J	0.018 J	0.0093 J	< 0.0062	< 0.0062	< 0.0062	0.0066 J
Calcium	mg/l	25.9	1.3	3.0	0.88 J	5.3	2.6	6.0
Chloride	mg/l	2.8	4.1	11.4	6.5	7.0	2.6	2.0
Fluoride	mg/l	0.082 J	0.052 J	< 0.050	< 0.050	< 0.050	< 0.050	0.088 J
Sulfate	mg/l	4.6	6.5	3.6	0.59 J	< 0.50	< 0.50	3.3
Total Dissolved Solids	mg/l	146	64.0	93.0	69.0	110	69.0	110
Appendix IV								
Antimony	mg/l	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	0.00054 J
Arsenic	mg/l	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012
Barium	mg/l	0.0081	0.0084	0.018	0.014	0.021	0.015	0.0077
Beryllium	mg/l	< 0.00015	0.00020 J	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015
Cadmium	mg/l	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012
Chromium	mg/l	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012
Cobalt	mg/l	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	0.041
Fluoride	mg/l	0.082 J	0.052 J	< 0.050	< 0.050	< 0.050	< 0.050	0.088 J
Lead	mg/l	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025
Lithium	mg/l	0.00582 J	< 0.000600	< 0.000600	0.00129 J	0.00373 J	< 0.000600	0.00670 J
Mercury	mg/l	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012	< 0.00012
Molybdenum	mg/l	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025
Combined Radium - 226/228	pci/l	3.65	0.376 U	0.0768 U	0.359 U	0.391 U	1.20 U	1.14 U
Selenium	mg/l	< 0.0012	0.0014 J	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012
Thallium	mg/l	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015	< 0.00015
Other Parameters								
Alkalinity	mg/L as $CaCO_3$	102	9.9	14.3	9.3	35.3	25.9	68.2
Alkalinity, Bicarbonate	mg/L as $CaCO_3$	102	9.9	14.3	9.3	35.3	25.9	68.2
Alkalinity, Carbonate	mg/L as $CaCO_3$	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Magnesium	mg/L	4.4	1.4	1.0	0.94	3.0	0.60	3.2
Potassium	mg/L	3.6	0.76	0.41 J	0.52	1.0	0.58	3.0
Sodium	mg/L	9.2	8.9	15.0	8.8	12.2	9.4	19.9

Notes:
Appendix III = Consituents for Detection Monitoring - 40 CFR Part 257
Appendix IV = Consituents for Assessment Monitoring - 40 CFR Part 257

Acronyms and Abbreviations:
mg/L = milligrams per liter
pCi/L = picoCuries per liter
< = Analyte was not detected above the laboratory method detection limit (MDL)
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 precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualifited by the laboratory as estimated.

Table 6b
Upgradient Groundwater Analytical Data - February 2025
2025 Semiannual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - AP-3, B, B', and R6 CCR Landfill

Analyte	Units	YGWA-30I 2/25/2025	YGWA-39 2/25/2025	YGWA-40 2/25/2025	YGWA-47 2/25/2025
Appendix III					
pH	SU	5.45	5.81	5.07	5.52
Boron	mg/l	< 0.0062	0.13	0.061	0.014 J
Calcium	mg/l	1.4	17.3	4.8	9.9
Chloride	mg/l	1.3	3.5	4.5	3.0
Fluoride	mg/l	0.062 J	0.078 J	0.053 J	0.069 J
Sulfate	mg/l	0.74 J	6.5	15.4	48.3
Total Dissolved Solids	mg/l	51.0	228	86.0	147
Appendix IV					
Antimony	mg/l	< 0.00050	< 0.00050	< 0.00050	< 0.00050
Arsenic	mg/l	< 0.0012	< 0.0012	< 0.0012	< 0.0012
Barium	mg/l	0.0076	0.031	0.031	0.033
Beryllium	mg/l	< 0.00015	< 0.00015	0.00018 J	< 0.00015
Cadmium	mg/l	< 0.00012	< 0.00012	< 0.00012	< 0.00012
Chromium	mg/l	< 0.0012	< 0.0012	< 0.0012	< 0.0012
Cobalt	mg/l	0.0023 J	< 0.0012	< 0.0012	< 0.0012
Fluoride	mg/l	0.062 J	0.078 J	0.053 J	0.069 J
Lead	mg/l	< 0.00025	< 0.00025	< 0.00025	< 0.00025
Lithium	mg/l	0.00127 J	0.00608 J	0.000836 J	0.00393 J
Mercury	mg/l	< 0.00012	< 0.00012	0.00034	< 0.00012
Molybdenum	mg/l	< 0.0025	0.0056 J	< 0.0025	< 0.0025
Combined Radium - 226/228	pci/l	0.385 U	0.895 U	0.685 U	1.10 U
Selenium	mg/l	< 0.0012	< 0.0012	< 0.0012	< 0.0012
Thallium	mg/l	< 0.00015	< 0.00015	< 0.00015	< 0.00015
Other Parameters					
Alkalinity	mg/L as $CaCO_3$	15.5	185	22.5	37.8
Alkalinity, Bicarbonate	mg/L as $CaCO_3$	15.5	185	22.5	37.8
Alkalinity, Carbonate	mg/L as $CaCO_3$	< 5.0	< 5.0	< 5.0	< 5.0
Magnesium	mg/L	0.94	22.3	2.8	11.0
Potassium	mg/L	0.71	6.0	2.0	3.9
Sodium	mg/L	6.0	25.2	9.7	11.7

Notes:
Appendix III = Consituents for Detection Monitoring - 40 CFR Part 257
Appendix IV = Consituents for Assessment Monitoring - 40 CFR Part 257

Acronyms and Abbreviations:
mg/L = milligrams per liter
pCi/L = picoCuries per liter
< = Analyte was not detected above the laboratory method detection limit (MDL)
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 precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualifited by the laboratory as estimated.

Table 7
Background Levels and Groundwater Protection Standards
2025 Semiannual Groundwater Monitoring and Corrective Action Report
Plant Yates - AP-3, A, B, B' and R6 CCR Landfill

Constituent	Units	Background [2]	GWPS
August 2024 (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	1.10	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	0.030	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:

GWPS = Groundwater Protection Standard per 40 CFR §257.95(h). On February 22, 2022, the GA EPD updated the Rules for Solid Waste Management 391-3-4-.10(6) to incorporate updated Federal GWPS for cobalt, lead, molydenum, and lithium.

CFR = Code of Federal Regulations

MCL = Maximum Contaminant Level

mg/L = millgrams per liter

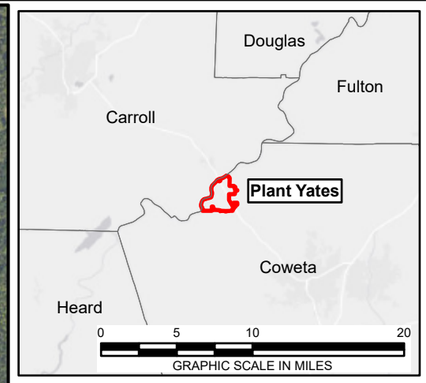
pCi/L = picocuries per liter

Figures

84°55'36"W 84°55'24"W 84°55'12"W 84°55'0"W 84°54'48"W 84°54'36"W 84°54'24"W 84°54'12"W 84°54'0"W 84°53'48"W 84°53'36"W 84°53'24"W 84°53'12"W 84°53'0"W 84°52'48"W 84°52'36"W 84°52'24"W

33°28'40"N
33°28'30"N
33°28'20"N
33°28'10"N
33°28'0"N
33°27'50"N
33°27'40"N
33°27'30"N
33°27'20"N
33°27'10"N
33°27'0"N
33°26'50"N
33°26'40"N





LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- PERMITTED UNIT BOUNDARY

NOTE:
AERIAL IMAGE SOURCES: JANUARY 2, 2025 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2023 IMAGERY.

0 650 1,300 2,600
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
2025 SEMIANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

SITE LOCATION MAP

ARCADIS

FIGURE
1

84°54'53"W 84°54'46"W 84°54'39"W 84°54'32"W 84°54'25"W 84°54'18"W 84°54'11"W 84°54'4"W 84°53'57"W 84°53'50"W 84°53'43"W 84°53'36"W 84°53'29"W 84°53'22"W 84°53'15"W 84°53'8"W 84°53'1"W 84°52'54"W 84°52'47"W

33°28'10"N
33°28'5"N
33°28'0"N
33°27'55"N
33°27'50"N
33°27'45"N
33°27'40"N
33°27'35"N
33°27'30"N
33°27'25"N
33°27'20"N
33°27'15"N
33°27'10"N
33°27'5"N
33°27'0"N
33°26'55"N
33°26'50"N
33°26'45"N

YGWA-47
YGWC-52
PZ-09S
PZ-09I
YGWC-44
YGWC-45
FORMER ASH POND 1
YGWC-46A
PZ-53
PZ-10I
PZ-10S
YGWA-6I
PZ-06D
YGWA-6S
PZ-48
YGWC-26S
YGWC-26I
FORMER ASH POND A
YGWC-27S
YGWC-27I
ASH POND 2
YGWC-49
YGWC-28S
YGWC-28I
YGWC-29IB
PZ-24IB
YGWC-24SB
PZ-25I
PZ-25S
PZ-35
YAMW-1
YGWC-36A
ASH POND B
YGWA-30I
PZ-31S
YGWC-50
AMA - PERIMETER ROAD
ASH POND B'
PZ-13S
PZ-13I
YGWA-14S
PZ-14I
YGWA-17S
PZ-51
YGWC-43
R6 ASH DISPOSAL AREA
YGWA-18S
YGWA-18I
PZ-55
YAMW-3
YGWA-1I
PZ-01S
YGWA-1D
YGWC-42
PZ-54D
PZ-56D
YAMW-2
ASH POND 3
YAMW-4
EAST COVE
PZ-03S
YGWA-3I
YGWA-3D
PZ-52D
PZ-37D
PZ-53D
PZ-37
YGWC-23S
YGWC-41
YGWA-2I
YGWC-38
YAMW-5
ASH MANAGEMENT AREA
YGWA-40
YGWA-39
YGWA-21I
YGWA-20S
SOUTH COVE
PZ-04S
YGWA-4I
PZ-05S
YGWA-5I
YGWA-5D

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 1/31/2024

NOTE:
AERIAL IMAGE SOURCES: JANUARY 2, 2025 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2023 IMAGERY.

0 450 900 1,800
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

2025 SEMIANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

PLANT YATES CCR REMOVAL AREAS

ARCADIS

FIGURE
2

84°54'18"W 84°54'11"W 84°54'4"W 84°53'57"W 84°53'50"W 84°53'43"W 84°53'36"W 84°53'29"W 84°53'22"W 84°53'15"W 84°53'8"W 84°53'1"W 84°52'54"W 84°52'47"W 84°52'40"W

33°27'50"N
33°27'45"N
33°27'40"N
33°27'35"N
33°27'30"N
33°27'25"N
33°27'20"N
33°27'15"N
33°27'10"N
33°27'5"N
33°27'0"N
33°26'55"N
33°26'50"N
33°26'45"N

YGWA-6S
PZ-06D
YGWA-6I
PZ-48
YGWC-49
FORMER ASH POND A
YGWC-24SB
PZ-24IB
ASH POND 2
YAMW-1
PZ-35
YGWC-36A
ASH POND B
YGWC-50
ASH POND B'
YGWA-17S
PZ-51
YGWC-43
R6 ASH DISPOSAL AREA
PZ-55
PZ-54D
PZ-56D
YAMW-3
YGWC-42
YAMW-2
YGWA-18S
YGWA-18I
PZ-37
PZ-37D
ASH POND 3
PZ-52D
PZ-53D
YGWC-23S
YAMW-5
YGWC-38
ASH MANAGEMENT AREA
YGWA-40
YGWA-39
YGWA-21I
YGWA-20S
YGWA-4I
PZ-04S
PZ-05S
YGWA-5D
YGWA-5I

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

NOTE:
AERIAL IMAGE SOURCES: JANUARY 2, 2025 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2023 IMAGERY.

0 350 700 1,400
GRAPHIC SCALE IN FEET

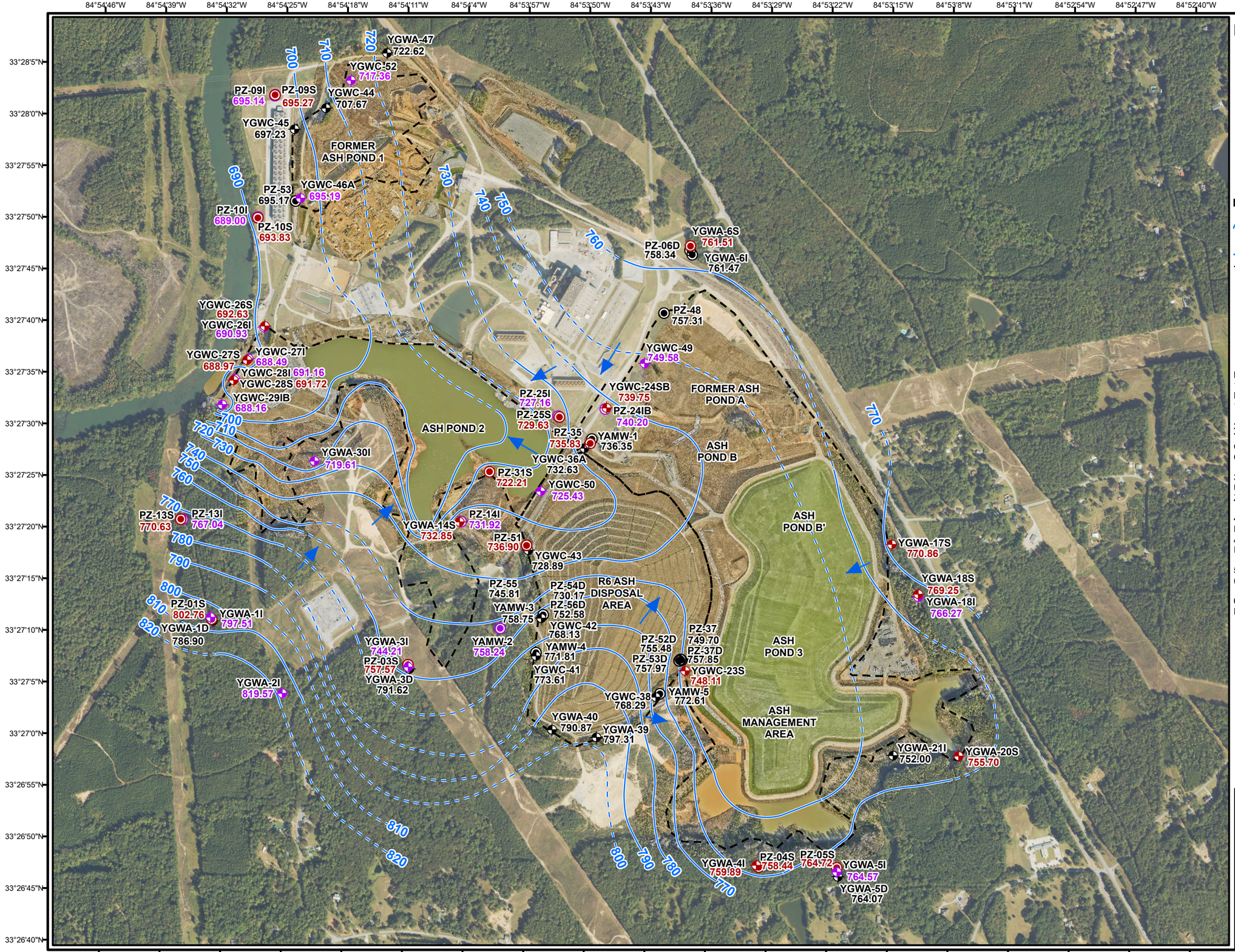
COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

Georgia Power
PLANT YATES AP-3, A, B, B', AND R6 CCR LANDFILL
NEWNAN, GA
2025 SEMIANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

WELL LOCATION MAP

ARCADIS

FIGURE
3



LEGEND

- SAPROLITE NETWORK MONITORING WELL LOCATION
- TRANSITION NETWORK MONITORING WELL LOCATION
- BEDROCK NETWORK MONITORING WELL LOCATION
- SAPROLITE NON-NETWORK WELL/ PIEZOMETER
- TRANSITION NON-NETWORK WELL/ PIEZOMETER
- BEDROCK NON-NETWORK WELL/ PIEZOMETER
- PERMITTED UNIT BOUNDARY
- APPROXIMATE POTENTIOMETRIC CONTOUR (FEET) DASHED WHERE INFERRED
- FLOW LINE
- 757.11 GROUNDWATER ELEVATION (FEET)

GEORGIA REGISTERED No. PE027801 PROFESSIONAL ENGINEER JON SVOBODA

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, YGWC-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 2, 2025 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2023 IMAGERY.

5. ELEVATION IS PRESENTED IN U.S. SURVEY FEET (NAVD 1988).

6. GROUNDWATER ELEVATIONS COLLECTED ON FEBRUARY 24, 2025.

0 450 900 1,800

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

2025 SEMIANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

SITEWIDE GROUNDWATER ELEVATION MAP FEBRUARY 2025

ARCADIS

FIGURE **4**

84°54'18"W 84°54'12"W 84°54'6"W 84°54'0"W 84°53'54"W 84°53'48"W 84°53'42"W 84°53'36"W 84°53'30"W 84°53'24"W 84°53'18"W 84°53'12"W 84°53'6"W 84°53'0"W 84°52'54"W 84°52'48"W 84°52'42"W

33°27'50"N
33°27'45"N
33°27'40"N
33°27'35"N
33°27'30"N
33°27'25"N
33°27'20"N
33°27'15"N
33°27'10"N
33°27'5"N
33°27'0"N
33°26'55"N
33°26'50"N
33°26'45"N

PZ-06D 758.34
YGWA-6S 761.51
YGWA-6I 761.47
PZ-48 757.31
YGWC-49 749.58
FORMER ASH POND A
PZ-24IB 740.20
YGWC-24SB 739.75
ASH POND 2
PZ-35 735.83
YAMW-1 736.35
YGWC-36A 732.63
ASH POND B
YGWC-50 725.43
ASH POND B'
PZ-51 736.90
YGWC-43 728.89
YGWA-17S 770.86
YGWA-18S 769.25
YGWA-18I 766.27
PZ-55 745.81
R6 ASH DISPOSAL AREA
PZ-56D 752.58
PZ-54D 730.17
YAMW-3 758.75
YAMW-2 758.24
YGWC-42 768.13
PZ-52D 755.48
PZ-53D 757.97
PZ-37 749.70
PZ-37D 757.85
YGWC-23S 748.11
YAMW-4 771.81
YGWC-41 773.61
ASH POND 3
YGWC-38 768.29
YAMW-5 772.61
YGWA-40 790.87
YGWA-39 797.31
ASH MANAGEMENT AREA
YGWA-21I 752.00
YGWA-20S 755.70
YGWA-4I 759.89
PZ-04S 758.44
PZ-05S 764.72
YGWA-5I 764.57
YGWA-5D 764.07

760 750 740 730 720 710 770 710 720 730 740 750 760 770 780 790 800 810 820 800 790 780 770 760 750

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
- GROUNDWATER FLOW DIRECTION
- APPROXIMATE POTENTIOMETRIC CONTOUR (FEET) DASHED WHERE INFERRED
- 757.11 GROUNDWATER ELEVATION (FEET)

GEORGIA REGISTERED No. PE027801 PROFESSIONAL ENGINEER JOHN E. GOODYEAR

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, YGWC-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 2, 2025 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2023 IMAGERY.

5. ELEVATION IS PRESENTED IN U.S. SURVEY FEET (NAVD 1988).

6. GROUNDWATER ELEVATIONS COLLECTED ON FEBRUARY 24, 2025.

0 350 700 1,400
GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

Georgia Power

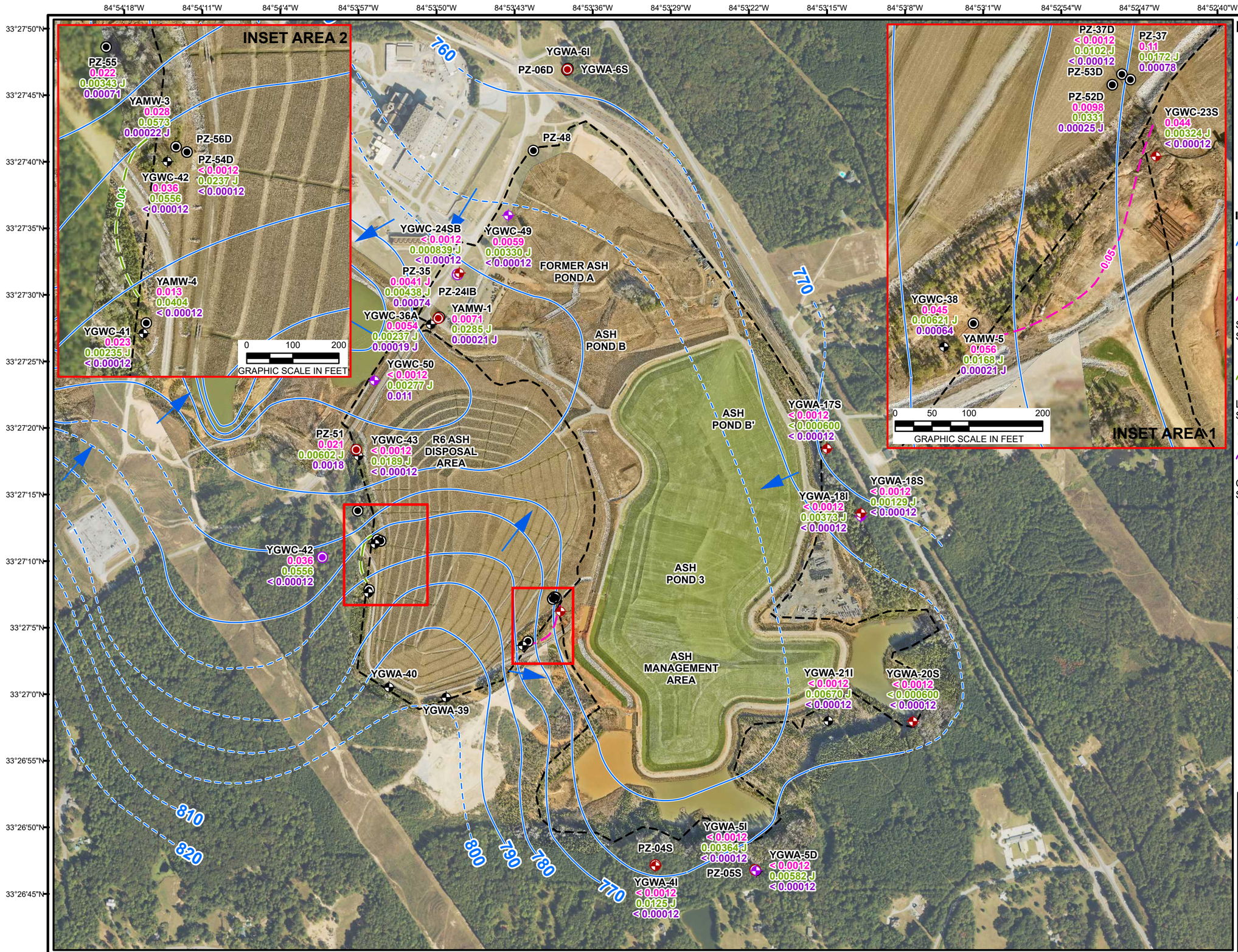
PLANT YATES AP-3, A, B, B', AND R6 CCR LANDFILL
NEWNAN, GA

2025 SEMIANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

GROUNDWATER ELEVATION MAP FEBRUARY 2025

ARCADIS

FIGURE 5



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
- SELENIUM ISOCONTOUR LINE (DASHED WHERE INFERRED)

SELENIUM GROUNDWATER PROTECTION STANDARD VALUE = 0.050 mg/L

0.045 SELENIUM CONCENTRATION VALUES (mg/L)

- LITHIUM ISOCONTOUR LINE (DASHED WHERE INFERRED)

LITHIUM GROUNDWATER PROTECTION STANDARD VALUE = 0.04 mg/L

0.029 LITHIUM CONCENTRATION VALUES (mg/L)

- CADMIUM ISOCONTOUR LINE (DASHED WHERE INFERRED)

CADMIUM GROUNDWATER PROTECTION STANDARD VALUE = 0.005 mg/L

0.011 CADMIUM CONCENTRATION VALUES (mg/L)

NOTES:

1. RESULTS ARE PROVIDED IN MILLIGRAMS PER LITER (mg/L)
2. J = ESTIMATED VALUE
3. < = LESS THAN
4. SAMPLES WERE COLLECTED FEBRUARY 25-27, 2025.
5. APPROXIMATE POTENTIOMETRIC CONTOURS DATED FEBRUARY 24, 2025.
6. AERIAL IMAGE SOURCES: JANUARY 2, 2025 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2023 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

2025 SEMIANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

SELENIUM, LITHIUM AND CADMIUM ISOCONCENTRATION MAP – FEBRUARY 2025

ARCADIS

FIGURE
6

Appendix A

Field Sampling and Well Inspection Forms

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/25/2025

Calibrated By: Kim Lapszynski

Field Conditions: Clear

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	1023326
Turbidity Meter	HACH 2100Q	216557

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	4GF0724	Jun-25	Insitu
pH (SU)	4.00	4GF0044	Jun-26	Insitu
pH (SU)	7.00	4GF0046	Jun-26	Insitu
pH (SU)	10.00	4GF0114	Jun-26	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	240.0	9J00346	Nov-26	PINE

Calibration					
Time Start 7:30		**Time Finish 7:55**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	12.13	± 0.1	GWMP
pH (SU)	7.00	7.04	12.98	± 0.1	GWMP
pH (SU)	10.00	10.00	11.93	± 0.1	GWMP
D.O. (%)	N/A	100.00	11.18	± 10%	NA
ORP (mV)	240.0	240.0	11.39	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	10.1	± 10% of standard	EPA 2023
	20	20.0		
	100	99.5		
	800	805		

Calibration Check					
Time Start 12:23		**Time Finish 12:35**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	17.95	± 0.1	GWMP
pH (SU)	7.00	7.03	18.26	± 0.1	GWMP
pH (SU)	10.00	10.00	18.12	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	9.98	± 10% of standard	EPA 2023
	20	20.6		
	100	98.1		
	800	798		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/26/2025

Calibrated By: Kim Lapszynski

Field Conditions: Clear

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	1023326
Turbidity Meter	HACH 2100Q	216557

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	4GF0724	Jun-25	Insitu
pH (SU)	4.00	4GF0044	Jun-26	Insitu
pH (SU)	7.00	4GF0046	Jun-26	Insitu
pH (SU)	10.00	4GF0114	Jun-26	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	240.0	9J00346	Nov-26	PINE

Calibration					
Time Start 7:20		**Time Finish 7:35**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	12.73	± 0.1	GWMP
pH (SU)	7.00	7.00	13.70	± 0.1	GWMP
pH (SU)	10.00	10.00	12.12	± 0.1	GWMP
D.O. (%)	N/A	100.00	10.44	± 10%	NA
ORP (mV)	240.0	240.0	11.15	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	10.0	± 10% of standard	EPA 2023
	20	20.2		
	100	99.8		
	800	800		

Calibration Check					
Time Start 12:30		**Time Finish 12:45**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	26.12	± 0.1	GWMP
pH (SU)	7.00	7.00	23.62	± 0.1	GWMP
pH (SU)	10.00	10.00	24.43	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	10.0	± 10% of standard	EPA 2023
	20	21.3		
	100	104		
	800	796		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/27/2025

Calibrated By: Kim Lapszynski

Field Conditions: Cloudy

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	1023326
Turbidity Meter	HACH 2100Q	216557

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	4GF0724	Jun-25	Insitu
pH (SU)	4.00	4GF0044	Jun-26	Insitu
pH (SU)	7.00	4GF0046	Jun-26	Insitu
pH (SU)	10.00	4GF0114	Jun-26	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	240.0	9J00346	Nov-26	PINE

Calibration					
Time Start 7:35		**Time Finish 7:48**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	15.84	± 0.1	GWMP
pH (SU)	7.00	7.00	16.28	± 0.1	GWMP
pH (SU)	10.00	10.00	16.06	± 0.1	GWMP
D.O. (%)	N/A	100.00	14.58	± 10%	NA
ORP (mV)	240.0	240.0	15.67	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	10.1	± 10% of standard	EPA 2023
	20	20.1		
	100	100		
	800	800		

Calibration Check					
Time Start 12:40		**Time Finish 12:55**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	24.25	± 0.1	GWMP
pH (SU)	7.00	7.00	24.41	± 0.1	GWMP
pH (SU)	10.00	10.00	23.90	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	9.95	± 10% of standard	EPA 2023
	20	19.8		
	100	101		
	800	798		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/25/2025

Calibrated By: Perry Studebaker

Field Conditions: Clear

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	1018751
Turbidity Meter	HACH 2100Q	20131

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	4GF0724	Jun-25	Insitu
pH (SU)	4.00	4GF0044	Jun-26	Insitu
pH (SU)	7.00	4GF0046	Jun-26	Insitu
pH (SU)	10.00	4GF0114	Jun-26	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	240.0	9J00346	Nov-26	PINE

Calibration					
Time Start 8:20		**Time Finish 8:35**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	13.00	± 0.1	GWMP
pH (SU)	7.00	7.00	13.27	± 0.1	GWMP
pH (SU)	10.00	10.00	12.89	± 0.1	GWMP
D.O. (%)	N/A	100.00	13.21	± 10%	NA
ORP (mV)	240.0	240.0	13.70	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	10.1	± 10% of standard	EPA 2023
	20	19.9		
	100	102		
	800	795		

Calibration Check					
Time Start 13:35:00 PM		**Time Finish 12:48**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	20.68	± 0.1	GWMP
pH (SU)	7.00	7.00	20.80	± 0.1	GWMP
pH (SU)	10.00	10.05	21.38	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	9.92	± 10% of standard	EPA 2023
	20	20.3		
	100	99.2		
	800	794		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/26/2025

Calibrated By: Perry Studebaker

Field Conditions: Clear

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	1018751
Turbidity Meter	HACH 2100Q	20131

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	4GF0724	Jun-25	Insitu
pH (SU)	4.00	4GF0044	Jun-26	Insitu
pH (SU)	7.00	4GF0046	Jun-26	Insitu
pH (SU)	10.00	4GF0114	Jun-26	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	240.0	9J00346	Nov-26	PINE

Calibration					
Time Start 7:00		**Time Finish 7:25**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	11.42	± 0.1	GWMP
pH (SU)	7.00	7.00	12.20	± 0.1	GWMP
pH (SU)	10.00	10.00	11.71	± 0.1	GWMP
D.O. (%)	N/A	100.00	9.68	± 10%	NA
ORP (mV)	240.0	240.0	13.16	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	10.2	± 10% of standard	EPA 2023
	20	19.8		
	100	101		
	800	795		

Calibration Check					
Time Start 13:00		**Time Finish 13:35**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	20.36	± 0.1	GWMP
pH (SU)	7.00	7.00	20.27	± 0.1	GWMP
pH (SU)	10.00	10.00	20.75	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	9.91	± 10% of standard	EPA 2023
	20	19.8		
	100	102		
	800	801		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/27/2025

Calibrated By: Perry Studebaker

Field Conditions: Cloudy

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	1018751
Turbidity Meter	HACH 2100Q	20131

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	4GF0724	Jun-25	Insitu
pH (SU)	4.00	4GF0044	Jun-26	Insitu
pH (SU)	7.00	4GF0046	Jun-26	Insitu
pH (SU)	10.00	4GF0114	Jun-26	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	240.0	9J00346	Nov-26	PINE

Calibration					
Time Start 7:40		**Time Finish 8:05**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	13.94	± 0.1	GWMP
pH (SU)	7.00	7.00	14.32	± 0.1	GWMP
pH (SU)	10.00	10.00	14.02	± 0.1	GWMP
D.O. (%)	N/A	100.00	12.40	± 10%	NA
ORP (mV)	240.0	240.0	13.77	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	9.98	± 10% of standard	EPA 2023
	20	20.1		
	100	100		
	800	803		

Calibration Check					
Time Start NA		**Time Finish NA**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	-	-	± 10% of standard	EPA 2023
pH (SU)	4.00	-	-	± 0.1	GWMP
pH (SU)	7.00	-	-	± 0.1	GWMP
pH (SU)	10.00	-	-	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	-	± 10% of standard	EPA 2023
	20	-		
	100	-		
	800	-		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/25/2025

Calibrated By: David Prouty

Field Conditions: Clear

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	1029232
Turbidity Meter	HACH 2100Q	23080D000331

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	4GF0724	Jun-25	Insitu
pH (SU)	4.00	4GF0044	Jun-26	Insitu
pH (SU)	7.00	4GF0046	Jun-26	Insitu
pH (SU)	10.00	4GF0114	Jun-26	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	4GG0346	Apr-25	Insitu

Calibration					
Time Start 7:50		**Time Finish 8:15**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	14.09	± 0.1	GWMP
pH (SU)	7.00	7.00	13.77	± 0.1	GWMP
pH (SU)	10.00	10.00	13.76	± 0.1	GWMP
D.O. (%)	N/A	100.00	15.72	± 10%	NA
ORP (mV)	229.0	229.0	15.41	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	10.2	± 10% of standard	EPA 2023
	20	20.1		
	100	101		
	800	NR		

Calibration Check					
Time Start 13:20		**Time Finish 13:40**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	22.08	± 0.1	GWMP
pH (SU)	7.00	7.00	22.58	± 0.1	GWMP
pH (SU)	10.00	10.00	22.54	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	10.2	± 10% of standard	EPA 2023
	20	20.1		
	100	101		
	800	NR		

Notes:
NR = Not recorded.

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/26/2025

Calibrated By: David Prouty

Field Conditions: Clear

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	1029232
Turbidity Meter	HACH 2100Q	23080D000331

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	4GF0724	Jun-25	Insitu
pH (SU)	4.00	4GF0044	Jun-26	Insitu
pH (SU)	7.00	4GF0046	Jun-26	Insitu
pH (SU)	10.00	4GF0114	Jun-26	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	4GG0346	Apr-25	Insitu

Calibration					
Time Start 7:10		**Time Finish 7:55**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	10.07	± 0.1	GWMP
pH (SU)	7.00	7.00	11.02	± 0.1	GWMP
pH (SU)	10.00	10.00	9.52	± 0.1	GWMP
D.O. (%)	N/A	100.00	15.48	± 10%	NA
ORP (mV)	229.0	229.0	9.68	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	10.3	± 10% of standard	EPA 2023
	20	20.2		
	100	101		
	800	NR		

Calibration Check					
Time Start 15:40		**Time Finish 16:20**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	22.81	± 0.1	GWMP
pH (SU)	7.00	7.00	25.23	± 0.1	GWMP
pH (SU)	10.00	10.00	22.68	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	10.1	± 10% of standard	EPA 2023
	20	20.0		
	100	101		
	800	NR		

Notes:
NR = Not recorded.

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/27/2025

Calibrated By: David Prouty

Field Conditions: Cloudy

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	1029232
Turbidity Meter	HACH 2100Q	23080D000331

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	4GF0724	Jun-25	Insitu
pH (SU)	4.00	4GF0044	Jun-26	Insitu
pH (SU)	7.00	4GF0046	Jun-26	Insitu
pH (SU)	10.00	4GF0114	Jun-26	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	4GG0346	Apr-25	Insitu

Calibration					
Time Start 7:40		**Time Finish 8:10**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	14.90	± 0.1	GWMP
pH (SU)	7.00	7.00	15.16	± 0.1	GWMP
pH (SU)	10.00	10.00	13.96	± 0.1	GWMP
D.O. (%)	N/A	100.00	18.11	± 10%	NA
ORP (mV)	229.0	229.0	13.45	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	10.2	± 10% of standard	EPA 2023
	20	20.1		
	100	100		
	800	NR		

Calibration Check					
Time Start NA		**Time Finish NA**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	-	-	± 10% of standard	EPA 2023
pH (SU)	4.00	-	-	± 0.1	GWMP
pH (SU)	7.00	-	-	± 0.1	GWMP
pH (SU)	10.00	-	-	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	-	± 10% of standard	EPA 2023
	20	-		
	100	-		
	800	-		

Notes:
NR = Not recorded.

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/25/2025

Calibrated By: Jessica Ware

Field Conditions: Clear

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	1023340
Turbidity Meter	Hach 2100Q	23070D000225

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	4GF0724	Jun-25	Insitu
pH (SU)	4.00	4GF0044	Jun-26	Insitu
pH (SU)	7.00	4GF0046	Jun-26	Insitu
pH (SU)	10.00	4GF0114	Jun-26	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	4GG0346	Apr-25	Insitu

Calibration					
Time Start 7:30		**Time Finish 7:55**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	8.32	± 0.1	GWMP
pH (SU)	7.00	7.00	8.39	± 0.1	GWMP
pH (SU)	10.00	10.00	9.69	± 0.1	GWMP
D.O. (%)	N/A	100.00	8.86	± 10%	NA
ORP (mV)	229.0	229.0	11.79	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	9.93	± 10% of standard	EPA 2023
	20	20.4		
	100	101		
	800	804		

Calibration					
Time Start 11:15		**Time Finish 11:25**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
pH (SU)	4.00	4.00	16.77	± 0.1	GWMP
pH (SU)	7.00	7.00	17.65	± 0.1	GWMP
pH (SU)	10.00	10.00	17.18	± 0.1	GWMP

Calibration Check					
Time Start 13:25		**Time Finish 13:40**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.01	19.33	± 0.1	GWMP
pH (SU)	7.00	7.00	19.98	± 0.1	GWMP
pH (SU)	10.00	10.00	19.32	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	9.95	± 10% of standard	EPA 2023
	20	20.0		
	100	100		
	800	804		

Notes:
Calibration at 11:15 AM due to replacing the pH sensor on the aquatroll. Replaced and recalibrated pH only.

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/26/2025

Calibrated By: Jessica Ware

Field Conditions: Clear

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	1023340
Turbidity Meter	Hach 2100Q	23070D000225

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	4GF0724	Jun-25	Insitu
pH (SU)	4.00	4GF0044	Jun-26	Insitu
pH (SU)	7.00	4GF0046	Jun-26	Insitu
pH (SU)	10.00	4GF0114	Jun-26	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	4GG0346	Apr-25	Insitu

Calibration					
Time Start 7:30		**Time Finish 7:55**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	11.97	± 0.1	GWMP
pH (SU)	7.00	7.00	11.82	± 0.1	GWMP
pH (SU)	10.00	10.00	12.24	± 0.1	GWMP
D.O. (%)	N/A	100.00	16.69	± 10%	NA
ORP (mV)	229.0	229.0	14.31	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	10.1	± 10% of standard	EPA 2023
	20	20.2		
	100	100		
	800	796		

Calibration Check					
Time Start 12:35		**Time Finish 12:45**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	20.53	± 0.1	GWMP
pH (SU)	7.00	7.00	20.90	± 0.1	GWMP
pH (SU)	10.00	10.00	20.63	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	10.10	± 10% of standard	EPA 2023
	20	19.9		
	100	100		
	800	797		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/27/2025

Calibrated By: Jessica Ware

Field Conditions: Cloudy

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	1023340
Turbidity Meter	Hach 2100Q	23070D000225

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	4GF0724	Jun-25	Insitu
pH (SU)	4.00	4GF0044	Jun-26	Insitu
pH (SU)	7.00	4GF0046	Jun-26	Insitu
pH (SU)	10.00	4GF0114	Jun-26	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	4GG0346	Apr-25	Insitu

Calibration					
Time Start 7:30		**Time Finish 7:55**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	17.50	± 0.1	GWMP
pH (SU)	7.00	7.00	17.35	± 0.1	GWMP
pH (SU)	10.00	10.00	18.46	± 0.1	GWMP
D.O. (%)	N/A	100.00	15.62	± 10%	NA
ORP (mV)	229.0	229.0	16.51	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	10.0	± 10% of standard	EPA 2023
	20	19.8		
	100	99.0		
	800	800		

Calibration Check					
Time Start 12:25		**Time Finish 12:40**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	22.25	± 0.1	GWMP
pH (SU)	7.00	7.00	21.99	± 0.1	GWMP
pH (SU)	10.00	10.00	21.90	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	10.0	± 10% of standard	EPA 2023
	20	20.2		
	100	100		
	800	800		

Notes:

ARCADIS Design & Consultancy for natural and built assets

Groundwater Gauging Log

Client:	Georgia Power
Project Location:	AMA R6 CCR Landfill
Date:	2/24/2025
Sampler:	Jessica Ware David Prouty
Equipment:	water probe

Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
PZ-04S	2/24/2025	09:15:00	25.81	33.33	--
PZ-05S	2/24/2025	09:23:00	19.92	41.94	--
YGWC-50	2/24/2025	09:54:00	4.35	39.28	Transducer in well
YGWA-6I	2/24/2025	10:12:00	21.26	69.03	--
YGWA-6S	2/24/2025	10:15:00	20.96	39.87	--
PZ-06D	2/24/2025	10:16:00	23.68	134.02	--
YGWC-49	2/24/2025	10:47:00	33.15	78.53	--
PZ-48	2/24/2025	10:51:00	22.52	58.73	--
YGWC-24SB	2/24/2025	11:03:00	25.14	57.79	--
PZ-24IB	2/24/2025	11:04:00	25.51	73.42	--
YAMW-1	2/24/2025	11:09:00	7.48	69.93	--
PZ-35	2/24/2025	11:10:00	7.98	50.01	--
YGWC-36A	2/24/2025	11:11:00	6.98	51.20	--
PZ-55	2/24/2025	11:25:00	28.21	--	--
YGWC-43	2/24/2025	11:29:00	16.07	79.66	--
PZ-51	2/24/2025	11:32:00	7.40	36.00	--
PZ-56D	2/24/2025	11:41:00	42.98	198.06	--
PZ-54D	2/24/2025	11:42:00	65.39	137.06	--
YAMW-3	2/24/2025	11:45:00	37.30	91.44	--
YGWC-42	2/24/2025	11:46:00	29.73	59.76	--
YAMW-2	2/24/2025	11:53:00	22.80	46.48	--
YAMW-4	2/24/2025	11:58:00	33.78	96.55	--
YGWC-41	2/24/2025	12:00:00	30.31	67.32	--
YGWC-23S	2/24/2025	12:07:00	16.80	38.91	--
PZ-52D	2/24/2025	12:12:00	7.31	92.00	--

ARCADIS Design & Consultancy for natural and built assets

Groundwater Gauging Log

Client:	Georgia Power
Project Location:	AMA R6 CCR Landfill
Date:	2/24/2025
Sampler:	Jessica Ware David Prouty
Equipment:	water probe

Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
PZ-53D	2/24/2025	12:13:00	4.83	160.00	--
YAMW-5	2/24/2025	12:13:00	16.29	90.34	--
PZ-37D	2/24/2025	12:14:00	3.27	202.44	--
YGWC-38	2/24/2025	12:16:00	31.40	50.59	--
PZ-37	2/24/2025	12:16:00	11.08	49.78	--

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 2/26/2025 12:26:19 PM +00:00

Project Number	30113037	**Well ID**	PZ-35			**Date**	2/25/2025
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	72.5 degrees F and Clear. The wind is blowing W at 6.9 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)	7.91	**Total Depth (ft-bmp)**	50.01	**Water Column(ft)**	42.10	**Gallons in Well**	6.84
MP Elevation	743.81	**Pump Intake (ft-bmp)**	45	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	17:58	**Well Volumes Purged**	0.26	**Sample ID**	YAT-PZ-35	**Sampled by**	Kim Lapszynski
Purge Start	17:10	**Gallons Purged**	1.78	**Replicate/ Code No.**		**Color**	Clear
Purge End	17:55						

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)
17:10:00	00:00	150	7.91	6.15	311.05	1.83	9.38	19.80	187.49
17:15:00	05:00	150	8.06	5.35	346.40	2.68	5.00	18.30	222.33
17:20:00	10:00	150	8.07	5.30	341.43	3.43	4.54	18.30	226.40
17:25:00	15:00	150	8.07	5.27	373.01	3.57	4.45	18.20	229.11
17:30:00	20:00	150	8.09	5.24	409.42	5.88	4.34	18.10	231.04
17:35:00	25:00	150	8.09	5.23	430.16	4.10	4.31	18.10	232.44
17:40:00	30:00	150	8.1	5.22	442.68	5.89	4.28	18.10	233.62
17:45:00	35:00	150	8.1	5.23	444.15	4.61	4.30	18.00	233.93
17:50:00	40:00	150	8.12	5.22	453.80	4.58	4.29	18.10	234.96
17:55:00	45:00	150	8.12	5.20	463.92	4.10	4.22	18.10	235.81

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
App III/IV Metals	250 mL Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None
RAD 226/228	1L Plastic	2	HNO3
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: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 2/26/2025 2:55:33 PM +00:00

Project Number	30113037	**Well ID**	YGWC-49			**Date**	2/26/2025
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	It is Clear. The wind is blowing undefined at 0.0 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	68.03	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	33.15	**Total Depth (ft-bmp)**	78.53	**Water Column(ft)**	45.38	**Gallons in Well**	7.37
MP Elevation	782.73	**Pump Intake (ft-bmp)**	73	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	09:35	**Well Volumes Purged**	0.14	**Sample ID**	YAT-YGWC-49	**Sampled by**	Kim Lapszynski
Purge Start	09:13	**Gallons Purged**	1.06	**Replicate/ Code No.**		**Color**	Clear
Purge End	09:33						

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)
9:13:00	00:00	200	33.15	6.88	221.46	1.80	9.52	13.70	198.41
9:18:00	05:00	200	33.74	5.65	223.53	0.47	3.38	16.90	208.50
9:23:00	10:00	200	33.8	5.68	218.04	0.52	3.16	17.20	206.44
9:28:00	15:00	200	33.83	5.73	217.65	0.43	3.11	17.30	203.11
9:33:00	20:00	200	33.85	5.75	219.31	0.56	3.07	17.30	201.56

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
App III/IV Metals	250 mL Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None
RAD 226/228	1L Plastic	2	HNO3
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: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

Updated : 2/26/2025 4:24:26 PM +00:00

Project Number	30113037	**Well ID**	YAMW-1			**Date**	2/26/2025
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	It is . The wind is blowing undefined at 0.0 mph.			
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)	7.92	**Total Depth (ft-bmp)**	69.93	**Water Column(ft)**	62.01	**Gallons in Well**	10.08
MP Elevation	743.83	**Pump Intake (ft-bmp)**	64.6	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	10:31	**Well Volumes Purged**	0.08	**Sample ID**	YAT-YAMW-1	**Sampled by**	Kim Lapszynski
Purge Start	10:09	**Gallons Purged**	0.79	**Replicate/ Code No.**	YAT-AMA-R6-FD-1, YAT-AMA-R6-FB-1	**Color**	Clear
Purge End	10:29						

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)
10:09:00	00:00	150	7.92	6.73	658.72	1.31	7.58	17.90	170.44
10:14:00	05:00	150	8.6	5.56	768.47	3.45	1.48	17.80	176.75
10:19:00	10:00	150	8.77	5.41	805.75	2.83	1.33	17.90	196.72
10:24:00	15:00	150	8.85	5.40	816.29	1.70	1.26	18.00	205.22
10:29:00	20:00	150	8.87	5.40	818.48	1.32	1.20	18.10	209.97

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
App III/IV Metals	250 mL Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None
RAD 226/228	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None

Comments: Collected field blank (YAT-AMA-R6-FB-1) at 1045

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: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

Updated : 3/13/2025 6:43:10 PM -04:00

Project Number	30143622	**Well ID**	YAMW-3			**Date**	02/26/2025
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	It is Clear. The wind is blowing undefined at 0.0 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)	37.2	**Total Depth (ft-bmp)**	91.44	**Water Column(ft)**	54.24	**Gallons in Well**	8.81
MP Elevation	796.05	**Pump Intake (ft-bmp)**	86.5	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	10:01	**Well Volumes Purged**	0.07	**Sample ID**	YAT-YAMW-3	**Sampled by**	Jessica Ware
Purge Start	09:23	**Gallons Purged**	0.66	**Replicate/ Code No.**		**Color**	Clear
Purge End	10:01						

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)
09:23:00	00:00	120	37.2	5.62	936.51	9.74	0.92	16.7	201.82
09:28:00	05:00	100	38.74	5.61	951.87	12.20	0.40	16.9	198.23
09:33:00	10:00	75	38.98	5.62	947.95	8.32	0.47	16.9	193.83
09:38:00	15:00	50	39.12	5.63	947.37	6.89	0.52	17.2	193.36
09:43:00	20:00	50	39.21	5.63	949.45	5.14	0.50	17.6	192.96
09:48:00	25:00	50	39.26	5.63	950.37	4.48	0.50	17.9	193.13
09:53:00	30:00	50	39.31	5.62	952.36	4.57	0.52	18.3	197.13
09:58:00	35:00	50	39.35	5.62	951.21	2.42	0.56	18.8	198.95

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

Comments: Purged and sampled at 50mL/min due to slow recharge. Well has history of slow recharge.

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

ARCADIS Design & Consultancy for natural and built assets

Updated : 2/26/2025 5:31:09 PM +00:00

Project Number	30143622	**Well ID**	YGWC-42			**Date**	2/26/2025
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	It is Clear. The wind is blowing undefined at 0.0 mph.			
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)	29.69	**Total Depth (ft-bmp)**	59.76	**Water Column(ft)**	30.07	**Gallons in Well**	4.89
MP Elevation	797.86	**Pump Intake (ft-bmp)**	55	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	12:10	**Well Volumes Purged**	0.24	**Sample ID**	YAT-YGWC-42	**Sampled by**	Jessica Ware
Purge Start	11:25	**Gallons Purged**	1.16	**Replicate/ Code No.**		**Color**	Clear
Purge End	12:10						

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)
11:25:00	00:00	150	29.7	5.65	968.32		6.36	21.20	173.29
11:26:00	01:12	125	30.38	5.36	970.43	4.17	3.02	20.00	105.17
11:31:00	06:12	100	30.89	5.28	950.90	5.71	1.61	20.40	148.18
11:36:00	11:12	100	30.94	5.28	946.15	6.61	1.66	20.90	175.60
11:41:00	16:12	100	31.31	5.31	942.11	2.48	1.07	19.30	184.64
11:46:00	21:12	100	31.86	5.37	950.43	3.30	0.83	19.00	185.90
11:51:00	26:12	100	31.91	5.39	952.41	2.55	1.03	19.60	186.67
11:56:00	31:12	100	31.85	5.41	957.41	1.75	1.08	19.90	187.92
12:02:00	36:45	100	31.93	5.42	971.64	1.36	1.15	19.90	189.56
12:07:00	41:45	100	31.9	5.42	971.57	2.43	1.15	20.20	192.15

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
Anions	250 mL Plastic	1	None
Metals	250 mL Plastic	2	HNO3
RAD Chem	1L Plastic	2	HNO3
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: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

Updated : 2/26/2025 6:07:56 PM +00:00

Project Number	30113037	**Well ID**	YGWC-36A			**Date**	2/26/2025
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	It is Clear. The wind is blowing N/NW at 3.4 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)	7.08	**Total Depth (ft-bmp)**	51.2	**Water Column(ft)**	44.12	**Gallons in Well**	7.17
MP Elevation	739.61	**Pump Intake (ft-bmp)**	46	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	12:05	**Well Volumes Purged**	0.18	**Sample ID**	YAT-YGWC-36A	**Sampled by**	Kim Lapszynski
Purge Start	11:37	**Gallons Purged**	1.32	**Replicate/ Code No.**		**Color**	Clear
Purge End	12:02						

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)
11:37:00	00:00	200	7.08	5.42	565.42	1.04	3.40	19.20	218.61
11:42:00	05:00	200	7.39	5.34	591.89	2.55	3.02	18.70	217.17
11:47:00	10:00	200	7.4	5.27	609.38	0.90	3.15	18.70	219.63
11:52:00	15:00	200	7.4	5.19	623.76	0.40	3.13	18.70	221.68
11:57:00	20:00	200	7.41	5.15	628.04	0.34	3.12	18.70	222.71
12:02:00	25:00	200	7.41	5.13	627.06	0.29	3.13	18.80	223.69

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
App III/IV Metals	250 mL Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None
RAD 226/228	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None

Comments: Collected equipment blank (YAT-AMA-R6-EB-1) at 1225.

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: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 2/26/2025 8:52:29 PM +00:00

Project Number	30113037	**Well ID**	YGWC-50			**Date**	2/26/2025
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	71.6 degrees F and Clear. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	27.98	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	4.9	**Total Depth (ft-bmp)**	39.28	**Water Column(ft)**	34.38	**Gallons in Well**	5.59
MP Elevation	729.78	**Pump Intake (ft-bmp)**	36	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	15:20	**Well Volumes Purged**	0.67	**Sample ID**	YAT-YGWC-50	**Sampled by**	Kim Lapszynski
Purge Start	13:44	**Gallons Purged**	3.76	**Replicate/ Code No.**		**Color**	Clear
Purge End	15:19						

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)
13:44:00	00:00	150	4.9	4.90	2087.77	9.73	2.41	20.30	194.20
13:49:00	05:00	150	5.08	4.97	2126.73	211.00	0.43	19.30	197.63
13:54:00	10:00	150	5.1	4.99	2130.13	147.00	0.41	19.00	165.49
13:59:00	15:00	150	5.11	5.00	1924.29	114.00	0.52	19.40	192.93
14:04:00	20:00	150	5.11	4.99	1866.27	48.80	0.38	19.20	211.98
14:09:00	25:00	150	5.11	5.02	1749.57	29.20	0.58	19.50	219.54
14:14:00	30:00	150	5.12	5.03	1809.44	17.10	0.45	19.10	225.93
14:19:00	35:00	150	5.12	5.02	1649.56	12.50	0.36	19.20	237.65
14:24:00	40:00	150	5.12	5.02	1535.39	6.55	0.31	19.40	247.94
14:29:00	45:00	150	5.13	5.02	1501.85	5.81	0.28	19.50	257.95
14:34:00	50:00	150	5.14	5.02	1802.99	4.30	0.25	18.90	259.84
14:39:00	55:00	150	5.14	5.01	1765.78	2.85	0.24	19.10	262.22
14:44:00	00:00	150	5.14	5.02	1677.54	2.40	0.21	19.20	268.15
14:49:00	05:00	150	5.14	5.02	1604.80	2.20	0.22	19.40	269.96
14:54:00	10:00	150	5.14	5.01	1736.62	2.03	0.22	19.20	265.94
14:59:00	15:00	150	5.14	5.02	1680.03	1.80	0.19	19.10	270.35
15:04:00	20:00	150	5.14	5.01	1803.36	2.80	0.19	19.30	269.17
15:09:00	25:00	150	5.14	5.01	2095.49	3.56	0.17	19.10	274.80
15:14:00	30:00	150	5.14	5.01	2071.46	2.31	0.15	18.90	275.05
15:19:00	35:00	150	5.14	5.00	2004.84	1.81	0.15	19.00	275.91

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
App III/IV Metals	250 mL Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None

Groundwater Sampling Form

RAD 226/228	1L Plastic	2	HNO3
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: _____ Key Number To Well: _____

Groundwater Sampling Form

Updated : 2/26/2025 8:54:49 PM +00:00

Project Number	30143622	**Well ID**	YAMW-4			**Date**	2/26/2025
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	74.1 degrees F and Clear. The wind is blowing undefined at 0.0 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)	33.67	**Total Depth (ft-bmp)**	96.55	**Water Column(ft)**	62.88	**Gallons in Well**	10.22
MP Elevation	805.59	**Pump Intake (ft-bmp)**	91.55	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	15:52	**Well Volumes Purged**	0.09	**Sample ID**	YAT-YAMW-4	**Sampled by**	Jessica Ware
Purge Start	15:15	**Gallons Purged**	0.92	**Replicate/ Code No.**		**Color**	Clear
Purge End	15:52						

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)
15:15:00	00:00	100	33.67	6.34	624.06	0.97	8.62	21.30	199.16
15:20:00	05:00	100	34.67	5.91	644.01	0.62	4.46	20.10	209.68
15:25:00	10:00	100	35.06	5.62	700.69	1.19	2.40	20.00	212.71
15:30:00	15:00	100	35.43	5.57	722.99	2.31	1.25	20.00	214.02
15:35:00	20:00	100	35.81	5.58	725.12	1.69	1.05	19.90	207.64
15:40:00	25:00	100	36.07	5.59	725.73	1.68	0.98	19.60	199.83
15:45:00	30:00	100	36.21	5.60	724.85	0.96	1.04	19.70	205.91
15:50:00	35:00	100	36.37	5.60	724.68	1.20	1.13	19.70	204.26

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
Anions	250 mL Plastic	1	None
Metals	250 mL Plastic	2	HNO3
RAD Chem	1L Plastic	2	HNO3
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: _____ Key Number To Well: _____

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 2/26/2025 8:54:50 PM +00:00

Project Number	30143622	**Well ID**	YAMW-2			**Date**	2/26/2025
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	70.7 degrees F and Clear. The wind is blowing undefined at 0.0 mph.			
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)	22.73	**Total Depth (ft-bmp)**	46.48	**Water Column(ft)**	23.75	**Gallons in Well**	3.86
MP Elevation	781.04	**Pump Intake (ft-bmp)**	41.44	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	14:38	**Well Volumes Purged**	0.27	**Sample ID**	YAT-YAMW-2	**Sampled by**	Jessica Ware
Purge Start	14:16	**Gallons Purged**	1.06	**Replicate/ Code No.**		**Color**	Clear
Purge End	14:38						

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)
14:16:00	00:00	200		5.60	102.07	7.44	5.01	28.90	196.03
14:21:00	05:00	200	22.83	5.51	94.56	3.27	4.65	19.50	216.99
14:26:00	10:00	200	22.76	5.48	97.11	2.66	4.32	19.00	223.75
14:31:00	15:00	200	22.82	5.43	96.31	2.56	4.35	18.50	230.09
14:36:00	20:00	200	22.79	5.41	95.10	2.39	4.44	18.40	233.79

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
Anions	250 mL Plastic	1	None
Metals	250 mL Plastic	2	HNO3
RAD Chem	1L Plastic	2	HNO3
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: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

Updated : 2/27/2025 1:47:48 AM +00:00

Project Number	30143622	**Well ID**	YGWC-41			**Date**	2/26/2025
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	75.9 degrees F and Clear. The wind is blowing undefined at 0.0 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)	30.17	**Total Depth (ft-bmp)**	67.32	**Water Column(ft)**	37.15	**Gallons in Well**	6.04
MP Elevation	803.92	**Pump Intake (ft-bmp)**	62	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	17:32	**Well Volumes Purged**	0.13	**Sample ID**	YAT-YGWC-41	**Sampled by**	Jessica Ware
Purge Start	17:03	**Gallons Purged**	0.79	**Replicate/ Code No.**		**Color**	Clear
Purge End	17:32						

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)
17:03:00	00:00	125	30.36	5.76	300.88	0.38	7.24	19.10	175.50
17:08:00	05:00	125	30.36	4.81	310.50	0.66	5.67	18.90	202.00
17:13:00	10:00	100	30.44	4.79	311.23	0.86	5.47	19.00	213.05
17:18:00	15:00	100	30.48	4.78	346.55	0.72	5.40	18.90	235.08
17:23:00	20:00	100	30.41	4.77	348.16	0.68	5.29	18.80	246.16
17:28:00	25:00	100	30.42	4.77	348.11	0.87	5.24	18.60	251.81

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
Anions	250 mL Plastic	1	None
Metals	250 mL Plastic	2	HNO3
RAD Chem	1L Plastic	2	HNO3
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: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

Updated : 2/27/2025 5:36:50 PM +00:00

Project Number	30113037	**Well ID**	PZ-37D			**Date**	2/27/2025
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	62.2 degrees F and Clear. The wind is blowing W/SW at 6.9 mph.			
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)	3.18	**Total Depth (ft-bmp)**	202.44	**Water Column(ft)**	199.26	**Gallons in Well**	32.38
MP Elevation	761.12	**Pump Intake (ft-bmp)**	197	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	12:31	**Well Volumes Purged**		**Sample ID**	YAT-PZ-37D	**Sampled by**	Kim Lapszynski
Purge Start	11:29	**Gallons Purged**		**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)
11:29:00	00:00	200	3.18	6.96	577.27	2.73	5.29	18.70	-6.39
11:34:00	05:00	200	6.6	7.92	900.91	1.99	0.24	17.40	-239.55
11:39:00	10:00	200	7.33	8.17	1144.44	1.17	0.19	17.40	-241.86
11:44:00	15:00	150	8.02	8.26	1231.14	0.96	0.18	17.70	-235.54
11:49:00	20:00	150	8.76	8.28	1236.66	1.13	0.18	17.80	-230.74
11:54:00	25:00	150	9.25	8.26	1208.71	0.80	0.19	17.90	-231.91
11:59:00	30:00	150	9.71	8.19	1109.37	1.03	0.18	18.10	-242.60
12:04:00	35:00	100	9.8	8.13	1018.08	1.26	0.20	18.30	-250.66
12:09:00	40:00	100	9.95	8.08	945.33	0.98	0.22	18.50	-256.33
12:14:00	45:00	100	10.07	8.04	893.90	0.76	0.23	18.20	-263.09
12:19:00	50:00	100	10.21	8.02	860.94	0.67	0.25	18.30	-266.23
12:24:00	55:00	100	10.34	8.01	838.85	0.61	0.26	18.30	-269.23
12:29:00	00:00	100	10.43	8.00	825.36	0.52	0.27	18.30	-272.40

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
App III/IV Metals	250 mL Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None
RAD 226/228	1L Plastic	2	HNO3
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

Groundwater Sampling Form

Updated : 3/17/2025 7:52:43 AM -04:00

Project Number	30113037	**Well ID**	PZ-37D			**Date**	02/27/2025
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	62.2 degrees F and Clear. The wind is blowing W/SW at 6.9 mph.			
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)	3.18	**Total Depth (ft-bmp)**	202.44	**Water Column(ft)**	199.26	**Gallons in Well**	32.38
MP Elevation	761.12	**Pump Intake (ft-bmp)**	197	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	12:31	**Well Volumes Purged**	0.07	**Sample ID**	YAT-PZ-37D	**Sampled by**	Kim Lapszynski
Purge Start	11:29	**Gallons Purged**	2.11	**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)
11:29:00	00:00	200	3.18	6.96	577.27	2.73	5.29	18.7	-6.39
11:34:00	05:00	200	6.6	7.92	900.91	1.99	0.24	17.4	-239.55
11:39:00	10:00	200	7.33	8.17	1144.44	1.17	0.19	17.4	-241.86
11:44:00	15:00	150	8.02	8.26	1231.14	0.96	0.18	17.7	-235.54
11:49:00	20:00	150	8.76	8.28	1236.66	1.13	0.18	17.8	-230.74
11:54:00	25:00	150	9.25	8.26	1208.71	0.80	0.19	17.9	-231.91
11:59:00	30:00	150	9.71	8.19	1109.37	1.03	0.18	18.1	-242.60
12:04:00	35:00	100	9.8	8.13	1018.08	1.26	0.20	18.3	-250.66
12:09:00	40:00	100	9.95	8.08	945.33	0.98	0.22	18.5	-256.33
12:14:00	45:00	100	10.07	8.04	893.90	0.76	0.23	18.2	-263.09
12:19:00	50:00	100	10.21	8.02	860.94	0.67	0.25	18.3	-266.23
12:24:00	55:00	100	10.34	8.01	838.85	0.61	0.26	18.3	-269.23
12:29:00	00:00	100	10.43	8.00	825.36	0.52	0.27	18.3	-272.40

Constituent Sampled	Container	Number	Preservative
RAD 226/228	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None
Alkalinity	250 mL Plastic	1	None
Cl, F, SO4	250 mL Plastic	1	None
App III/IV Metals	250 mL Plastic	2	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

Groundwater Sampling Form

Updated : 3/17/2025 7:52:43 AM -04:00

Project Number	30113037	**Well ID**	PZ-37			**Date**	02/27/2025
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	70.7 degrees F and Mostly Cloudy. The wind is blowing W/NW at 10.3 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)	11.05	**Total Depth (ft-bmp)**	49.78	**Water Column(ft)**	38.73	**Gallons in Well**	6.29
MP Elevation	760.78	**Pump Intake (ft-bmp)**	45	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	13:52	**Well Volumes Purged**	0.29	**Sample ID**	YAT-PZ-37	**Sampled by**	Kim Lapszynski
Purge Start	13:15	**Gallons Purged**	1.85	**Replicate/ Code No.**		**Color**	Clear
Purge End	13:50						

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)
13:15:00	00:00	200	11.05	5.89	1007.31	3.61	5.77	19.5	76.57
13:20:00	05:00	200	11.25	5.44	1007.68	2.05	0.93	18.5	26.78
13:25:00	10:00	200	11.29	5.37	1007.32	1.40	1.03	18.4	51.45
13:30:00	15:00	200	11.29	5.32	1017.55	0.89	1.34	18.4	62.84
13:35:00	20:00	200	11.3	5.29	1023.40	1.51	1.26	18.3	72.98
13:40:00	25:00	200	11.3	5.21	1037.62	1.23	1.28	18.5	89.20
13:45:00	30:00	200	11.3	5.17	1046.68	1.50	1.30	18.4	108.61
13:50:00	35:00	200	11.31	5.16	1050.88	1.53	1.31	18.4	129.08

Constituent Sampled	Container	Number	Preservative
RAD 226/228	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None
Alkalinity	250 mL Plastic	1	None
Cl, F, SO4	250 mL Plastic	1	None
App III/IV Metals	250 mL Plastic	2	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 : 3/14/2025 2:34:46 PM -04:00

Project Number	30143623	**Well ID**	PZ-54D			**Date**	02/27/2025
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	53.1 degrees F and Clear. The wind is blowing SW at 4.7 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	127.06	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	64.74	**Total Depth (ft-bmp)**	137.06	**Water Column(ft)**	72.32	**Gallons in Well**	11.75
MP Elevation	795.56	**Pump Intake (ft-bmp)**	136	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	13:00	**Well Volumes Purged**	0.09	**Sample ID**	YAT-YGWC-PZ-54D	**Sampled by**	Perry Studebaker
Purge Start	10:10	**Gallons Purged**	1.06	**Replicate/ Code No.**		**Color**	Clear
Purge End	15:05						

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)
10:10:00	00:00	50	65.9	5.82	937.80	0.93	1.27	17.9	92.53
10:15:00	05:00	50	66.11	5.81	935.19	2.01	1.07	18.2	77.33
10:20:00	10:00	50	66.51	5.83	936.36	9.72	0.85	18.4	44.60
10:25:00	15:00	50	66.93	5.85	936.40	19.30	0.49	18.6	25.56
10:30:00	20:00	50	67.34	5.85	936.49	18.10	0.39	18.8	18.02
10:35:00	25:00	45	67.65	5.85	935.68	17.70	0.37	18.9	14.44
10:40:00	30:00	45	67.98	5.85	934.70	18.70	0.38	19.1	13.65
10:45:00	35:00	45	68.42	5.84	930.79	29.50	0.35	19.3	13.60
10:50:00	40:00	45	68.78	5.84	930.68	22.40	0.32	19.2	13.10
10:55:00	45:00	45	69.2	5.84	931.17	23.80	0.34	19.6	14.34
11:00:00	50:00	45	69.5	5.84	930.51	33.90	0.37	19.8	15.59
11:05:00	55:00	45	69.85	5.83	929.38	20.60	0.35	19.9	16.54
11:10:00	00:00	45	70.21	5.83	927.11	20.90	0.33	19.7	18.08
11:15:00	05:00	45	70.58	5.81	925.31	15.50	0.34	19.7	20.27
11:20:00	10:00	45	70.89	5.82	925.70	15.80	0.36	20.2	21.90
11:25:00	15:00	45	71.13	5.82	925.04	14.70	0.39	20.5	24.65
11:30:00	20:00	45	71.39	5.81	923.83	14.40	0.42	20.8	27.80
11:35:00	25:00	45	71.74	5.81	923.00	14.90	0.41	21.0	30.98
11:40:00	30:00	45	72.09	5.80	920.03	11.70	0.40	20.6	35.18
11:45:00	35:00	40	72.38	5.80	920.97	9.58	0.42	21.0	38.34
11:50:00	40:00	40	72.62	5.80	922.01	10.00	0.49	21.5	41.04
11:55:00	45:00	40	72.81	5.79	920.26	9.98	0.54	21.8	43.30
12:00:00	50:00	40	73.04	5.79	918.74	9.62	0.55	22.1	45.69
12:05:00	55:00	40	73.21	5.78	918.76	8.87	0.54	22.5	47.82
12:10:00	00:00	40	73.49	5.78	915.44	8.81	0.51	22.4	50.94

Groundwater Sampling Form

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12:15:00	05:00	40	73.72	5.78	917.95	8.34	0.52	22.5	53.91
12:20:00	10:00	40	73.97	5.77	922.08	6.89	0.54	22.6	56.58
12:25:00	15:00	40	74.09	5.77	922.96	6.26	0.58	23.2	58.60
12:30:00	20:00	40	74.31	5.77	920.94	5.90	0.57	23.1	61.79
12:35:00	25:00	40	74.72	5.76	920.70	5.77	0.59	23.3	64.91
12:40:00	30:00	40	75.06	5.75	911.54	5.49	0.57	22.6	68.84
12:45:00	35:00	40	75.41	5.76	917.02	4.99	0.61	22.8	70.30
12:50:00	40:00	40	75.65	5.77	919.53	4.92	0.64	22.2	72.67
12:55:00	45:00	35	75.78	5.77	919.14	4.96	0.67	22.4	74.49
13:00:00	50:00	35	75.93	5.76	922.04	4.99	0.69	23.6	76.48

Constituent Sampled	Container	Number	Preservative
RAD SW846 9315/8320	1L Plastic	2	HNO3
TDS (SM 2540C)	500 mL Plastic	1	None
Cl, F, SO4 (EPA 300.0)	250 mL Plastic	1	None
Alkalinity (SM2320B)	250 mL Plastic	1	None
App III/IV Metals + Na, K, Mg	250 mL Plastic	2	HNO3

Comments: Turbidity and drawdown took time to stabilize.

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

ARCADIS Design & Consultancy for natural and built assets

Updated : 2/27/2025 8:44:16 PM +00:00

Project Number	30143622	**Well ID**	PZ-55			**Date**	2/27/2025
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	53.1 degrees F and Clear. The wind is blowing SW at 4.7 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	57.72	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	27.47	**Total Depth (ft-bmp)**	67.22	**Water Column(ft)**	39.75	**Gallons in Well**	6.46
MP Elevation	774.02	**Pump Intake (ft-bmp)**	62.72	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	11:06	**Well Volumes Purged**	0.24	**Sample ID**	YAT-PZ-55	**Sampled by**	Jessica Ware
Purge Start	09:28	**Gallons Purged**	1.56	**Replicate/ Code No.**		**Color**	Clear
Purge End	11:06						

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)
9:28:00	00:00	100	27.47	6.06	448.37	30.90	2.99	15.10	63.18
9:33:00	05:00	100	28.6	6.58	504.31	29.70	1.35	15.50	-20.07
9:38:00	10:00	100	28.96	6.64	489.42	22.30	1.14	15.60	-38.83
9:43:00	15:00	85	29.29	6.55	455.11	35.40	1.21	15.60	-25.48
9:48:00	20:00	50	29.5	6.39	441.18	18.60	1.43	15.60	-1.88
9:53:00	25:00	45	29.72	6.15	419.16	13.40	1.72	15.80	31.44
9:58:00	30:00	45	29.97	6.00	410.14	11.20	2.05	16.40	55.58
10:03:00	35:00	50	30.11	5.84	394.55	9.43	2.28	16.60	80.75
10:08:00	40:00	50	30.28	5.72	398.05	8.20	2.44	16.80	101.86
10:09:00	41:08	50	30.33	5.70	388.74	8.36	2.47	16.80	105.50
10:14:00	46:08	40	30.5	5.62	385.56	5.12	2.56	16.70	118.31
10:19:00	51:08	60	30.68	5.56	386.21	7.88	2.66	16.70	131.03
10:24:00	56:08	100	31.19	5.52	391.06	4.89	2.71	16.60	144.25
10:29:00	01:08	45	31.47	5.49	387.55	4.36	2.53	16.80	156.05
10:34:00	05:56	50	31.61	5.44	376.11	6.64	2.40	16.70	168.72
10:39:00	10:56	45	31.82	5.46	375.75	5.18	2.31	16.80	172.28
10:44:00	15:56	50	32.06	5.46	375.21	4.39	2.20	16.80	177.42
10:49:00	20:56	50	32.17	5.47	392.16	4.94	2.52	17.10	177.38
10:54:00	25:56	50	32.37	5.46	390.64	4.78	2.23	17.20	184.35
10:59:00	30:56	45	32.51	5.50	392.60	4.38	2.24	17.60	175.04
11:04:00	35:56	45	32.65	5.49	392.04	4.50	2.20	17.70	179.40

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
Anions	250 mL Plastic	1	None

Groundwater Sampling Form

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Metals	250 mL Plastic	2	HNO3
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None

Comments: Okay to purge and sample at 45mL/min from G. Gay due to historically slow recharge

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:

Condition of Well:

Well Completion:

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well:

Groundwater Sampling Form

Updated : 2/27/2025 8:44:17 PM +00:00

Project Number	30143622	**Well ID**	YGWC-43			**Date**	2/27/2025
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	70.9 degrees F and Clear. The wind is blowing W at 8.1 mph.			
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)	16.2	**Total Depth (ft-bmp)**	79.66	**Water Column(ft)**	63.46	**Gallons in Well**	10.31
MP Elevation	744.96	**Pump Intake (ft-bmp)**	75	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	13:24	**Well Volumes Purged**	0.10	**Sample ID**	YAT-YGWC-43	**Sampled by**	Jessica Ware
Purge Start	13:01	**Gallons Purged**	1.06	**Replicate/ Code No.**		**Color**	Clear
Purge End	13:24						

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)
13:01:00	00:00	200	16.2	5.17	465.49	4.67	6.67	22.30	216.62
13:06:00	05:00	200	16.46	5.56	485.10	3.55	0.28	18.00	71.88
13:11:00	10:00	200	16.58	5.61	491.66	1.56	0.11	17.70	62.41
13:16:00	15:00	200	16.68	5.63	496.34	0.78	0.10	17.60	57.00
13:21:00	20:00	200	16.76	5.65	494.63	0.67	0.11	17.60	53.31

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
Anions	250 mL Plastic	1	None
Metals	250 mL Plastic	2	HNO3
RAD Chem	1L Plastic	2	HNO3
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: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

Updated : 2/27/2025 8:44:18 PM +00:00

Project Number	30143622	**Well ID**	PZ-51			**Date**	2/27/2025
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	70.0 degrees F and Mostly Cloudy. The wind is blowing W/NW at 6.9 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)	7.37	**Total Depth (ft-bmp)**	36	**Water Column(ft)**	28.63	**Gallons in Well**	4.65
MP Elevation	744.3	**Pump Intake (ft-bmp)**	32	**Purge Method**	Volumetric	**Sample Method**	Low-Flow
Sample Time	14:18	**Well Volumes Purged**	0.17	**Sample ID**	YAT-PZ-51	**Sampled by**	Jessica Ware
Purge Start	13:55	**Gallons Purged**	0.79	**Replicate/ Code No.**		**Color**	Clear
Purge End	14:18						

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)
13:55:00	00:00	150	7.62	4.79	829.80	1.16	2.33	17.60	246.42
14:00:00	05:00	150	7.82	4.78	832.83	1.57	2.18	17.20	324.24
14:05:00	10:00	150	7.87	4.78	834.07	1.22	2.10	17.10	357.96
14:10:00	15:00	150	7.92	4.79	835.88	1.39	2.16	17.20	376.83
14:15:00	20:00	150	7.96	4.80	833.51	1.54	2.04	17.20	393.25

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
Anions	250 mL Plastic	1	None
Metals	250 mL Plastic	2	HNO3
RAD Chem	1L Plastic	2	HNO3
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: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

Updated : 3/17/2025 7:49:42 AM -04:00

Project Number	30113037	**Well ID**	PZ-52D			**Date**	02/27/2025
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	51.1 degrees F and Clear. The wind is blowing W/SW at 4.7 mph.			
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)	7.35	**Total Depth (ft-bmp)**	92	**Water Column(ft)**	84.65	**Gallons in Well**	13.75
MP Elevation	762.79	**Pump Intake (ft-bmp)**	87	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	10:27	**Well Volumes Purged**	0.09	**Sample ID**	YAT-PZ-52D	**Sampled by**	Kim Lapszynski
Purge Start	09:40	**Gallons Purged**	1.25	**Replicate/ Code No.**		**Color**	Clear
Purge End	10:25						

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)
09:40:00	00:00	150	7.35	6.90	590.24	5.19	6.36	16.0	-80.12
09:45:00	05:00	150	7.81	6.06	730.08	11.30	2.04	16.3	-51.39
09:50:00	10:00	150	8.4	5.93	747.61	10.30	1.00	16.5	-51.47
09:55:00	15:00	100	8.74	5.92	752.00	8.93	0.76	16.5	-65.50
10:00:00	20:00	100	9.05	5.91	757.35	6.81	0.68	16.6	-76.02
10:05:00	25:00	100	9.25	5.91	762.14	6.15	0.60	16.8	-82.44
10:10:00	30:00	100	9.5	5.91	764.49	5.06	0.55	16.8	-88.82
10:15:00	35:00	100	9.71	5.91	766.71	4.75	0.50	17.0	-93.05
10:20:00	40:00	75	9.8	5.91	768.19	4.31	0.50	17.1	-95.70
10:25:00	45:00	75	9.86	5.90	770.27	4.55	0.51	17.3	-96.35

Constituent Sampled	Container	Number	Preservative
RAD 226/228	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None
Alkalinity	250 mL Plastic	1	None
Cl, F, SO4	250 mL Plastic	1	None
App III/IV Metals	250 mL Plastic	2	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:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

Updated : 3/7/2025 3:40:00 PM +00:00

Project Number	30113037	**Well ID**	YGWC-23S			**Date**	2/27/2025
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	72.5 degrees F and Partly Cloudy. The wind is blowing W/NW at 9.2 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)	17.22	**Total Depth (ft-bmp)**	38.91	**Water Column(ft)**	21.69	**Gallons in Well**	3.52
MP Elevation	764.91	**Pump Intake (ft-bmp)**	34	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	16:10	**Well Volumes Purged**	0.28	**Sample ID**	YAT-YGWC-23S	**Sampled by**	Kim Lapszynski
Purge Start	15:43	**Gallons Purged**	0.99	**Replicate/ Code No.**		**Color**	Clear
Purge End	16:08						

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)
15:43:00	00:00	150	17.22	6.07	236.97	1.90	8.80	18.70	157.80
15:48:00	05:00	150	17.63	5.59	287.42	1.83	7.56	18.60	182.31
15:53:00	10:00	150	17.7	5.56	289.96	1.19	7.47	18.30	193.75
15:58:00	15:00	150	17.75	5.52	293.90	1.63	7.29	18.30	201.51
16:03:00	20:00	150	17.78	5.50	293.25	1.00	7.25	18.20	207.18
16:08:00	25:00	150	17.78	5.50	291.49	1.01	7.25	18.30	211.49

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
App III/IV Metals	250 mL Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None
RAD 226/228	1L Plastic	2	HNO3
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: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

Updated : 3/7/2025 6:57:17 PM +00:00

Project Number	30113037	**Well ID**	YAMW-5			**Date**	2/27/2025
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	70.7 degrees F and Mostly Cloudy. The wind is blowing W/NW at 10.3 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)	16.57	**Total Depth (ft-bmp)**	90.34	**Water Column(ft)**	73.77	**Gallons in Well**	11.99
MP Elevation	788.9	**Pump Intake (ft-bmp)**	86.3	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	14:57	**Well Volumes Purged**	0.07	**Sample ID**	YAT-YAMW-5	**Sampled by**	Kim Lapszynski
Purge Start	14:34	**Gallons Purged**	0.79	**Replicate/ Code No.**		**Color**	Clear
Purge End	14:55						

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)
14:34:00	00:00	200	16.57	6.32	827.83	0.97	8.83	20.30	140.66
14:39:00	05:00	150	16.95	5.43	874.50	0.37	2.59	20.10	182.99
14:44:00	10:00	150	17.14	5.42	903.22	0.26	1.68	18.70	197.45
14:49:00	15:00	150	17.25	5.41	877.97	0.28	1.70	18.50	206.02
14:54:00	20:00	150	17.38	5.41	863.25	0.22	1.70	18.20	212.08

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
App III/IV Metals	250 mL Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None
RAD 226/228	1L Plastic	2	HNO3
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: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

Updated : 3/11/2025 11:48:56 AM +00:00

Project Number	30113037	**Well ID**	YGWC-38			**Date**	2/26/2025
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	75.9 degrees F and Clear. The wind is blowing undefined at 0.0 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)	31.64	**Total Depth (ft-bmp)**	50.59	**Water Column(ft)**	18.95	**Gallons in Well**	3.08
MP Elevation	799.69	**Pump Intake (ft-bmp)**	45	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	17:20	**Well Volumes Purged**	0.32	**Sample ID**	YAT-YGWC-38	**Sampled by**	Kim Lapszynski
Purge Start	16:53	**Gallons Purged**	0.99	**Replicate/ Code No.**	YAT-AMA-R6-FD-2	**Color**	Clear
Purge End	17:18						

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)
16:53:00	00:00	150	31.64	5.68	512.04	11.50	8.10	19.70	183.53
16:58:00	05:00	150	32.4	5.24	475.78	6.91	3.83	18.50	241.19
17:03:00	10:00	150	32.57	5.11	463.08	3.34	3.58	18.40	268.25
17:08:00	15:00	150	32.72	5.08	459.38	1.65	3.54	18.10	283.38
17:13:00	20:00	150	32.79	5.09	459.08	1.20	3.51	18.10	292.28
17:18:00	25:00	150	32.84	5.08	459.77	0.62	3.50	18.10	299.97

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
App III/IV Metals	250 mL Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None
RAD 226/228	1L Plastic	2	HNO3
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: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

Updated : 3/18/2025 1:03:40 PM +00:00

Project Number	30113037	**Well ID**	YGWC-24SB			**Date**	3/17/2025
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	45.1 degrees F and Partly Cloudy. The wind is blowing N/NW at 15.0 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)	24.88	**Total Depth (ft-bmp)**	57.79	**Water Column(ft)**	32.91	**Gallons in Well**	5.35
MP Elevation	764.89	**Pump Intake (ft-bmp)**	54	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	14:45	**Well Volumes Purged**	0.40	**Sample ID**	YAT-YGWC-24SB	**Sampled by**	David Prouty
Purge Start	11:59	**Gallons Purged**	2.11	**Replicate/ Code No.**	YAT-AMA-R6–FD-1 and YAT-AMA-R6-FB-1	**Color**	Yellow
Purge End	17:55						

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)
11:59:00	00:00	50	24.98	5.95	82.81	75.20	9.06	16.10	181.49
12:04:00	05:00	50	24.98	5.86	72.78	67.60	9.17	16.90	178.52
12:09:00	10:00	50	24.98	5.83	70.33	45.80	9.16	17.50	174.92
12:14:00	15:00	50	24.98	5.81	69.74	40.60	9.19	17.40	175.80
12:19:00	20:00	50	24.98	5.75	64.99	28.40	8.82	16.90	182.86
12:24:00	25:00	50	24.98	5.74	64.39	28.50	8.71	17.00	185.67
12:29:00	30:00	50	24.98	5.73	64.39	26.60	8.55	17.40	184.68
12:34:00	35:00	50	24.98	5.71	63.59	24.20	8.44	17.40	187.37
12:39:00	40:00	50	24.98	5.71	64.15	20.50	8.53	17.40	187.51
12:44:00	45:00	50	24.98	5.72	63.47	22.20	8.49	17.70	187.48
12:49:00	50:00	50	24.98	5.70	63.71	16.30	8.41	17.80	189.55
12:54:00	55:00	50	24.98	5.71	63.54	16.40	8.41	17.80	188.41
12:59:00	00:00	50	24.98	5.68	63.34	15.40	8.46	17.40	191.49
13:04:00	05:00	50	24.98	5.66	62.41	15.70	8.37	17.40	193.90
13:09:00	10:00	50	24.98	5.67	61.80	13.90	8.33	17.70	194.19
13:14:00	15:00	50	24.98	5.64	62.48	11.00	8.32	17.90	195.79
13:19:00	20:00	50	24.98	5.67	63.71	10.90	8.19	18.10	194.11
13:24:00	25:00	50	24.98	5.64	63.20	11.20	8.19	18.10	195.92
13:29:00	30:00	50	24.98	5.69	63.24	9.80	8.36	18.00	193.44
13:34:00	35:00	50	24.98	5.69	63.14	10.40	8.17	18.20	195.64
13:39:00	40:00	50	24.98	5.70	62.95	8.80	8.44	18.20	194.91
13:44:00	45:00	50	24.98	5.70	63.31	7.94	8.45	18.40	194.56
13:49:00	50:00	50	24.98	5.70	62.90	7.86	8.41	18.30	196.69
13:54:00	55:00	50	24.98	5.69	63.22	7.48	8.43	18.40	197.07
13:59:00	00:00	50	24.98	5.69	62.77	6.90	8.38	18.60	199.57

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

14:04:00	05:00	50	24.98	5.70	63.03	6.51	8.50	18.40	199.90
14:09:00	10:00	50	24.98	5.68	62.66	5.70	8.34	18.40	200.14
14:14:00	15:00	50	24.98	5.68	62.79	5.19	8.36	18.50	201.97
14:19:00	20:00	50	24.98	5.67	62.82	4.94	8.31	18.50	203.66
14:24:00	25:00	50	24.98	5.67	62.56	5.58	8.26	18.40	203.83
14:29:00	30:00	50	24.98	5.67	62.47	5.00	8.25	18.40	205.04
14:34:00	35:00	50	24.98	5.65	62.39	4.58	8.29	18.10	209.25
14:39:00	40:00	50	24.98	5.65	62.14	4.62	8.31	18.00	208.28

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

Comments: Collected equipment blank YAT-AMA-R6-EB-1

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: _____ Key Number To Well: _____

February 2025 Well Inspection Results
AMA/R6 Well Locations
Plant Yates

Well ID	Location/Identification				Protective Casing				
	Visible and accessible	Properly identified with correct well ID	Located in high traffic area; does the well require protection from traffic	Acceptable drainage around well (no standing water, not located in obvious drainage flow path)	Free from apparent damage and able to be secured	No degradation or deterioration	Functioning weep hole	Annular space clear of debris and water, or filled with pea gravel/sand	Locked and is the lock in good condition
PZ-4S	Y	Y	N	Y	Y	Y	Y	Y	Y
PZ-5S	Y	Y	N	Y	Y	Y	Y	Y	Y
YGWA-6I	Y	Y	N	Y	Y	Y	Y	Y	Y
YGWA-6S	Y	Y	N	Y	Y	Y	Y	Y	Y
PZ-6D	Y	Y	N	Y	Y	Y	Y	Y	Y
YGWC-49	Y	Y	N	Y	Y	Y	Y	Y	Y
PZ-48	Y	Y	N	Y	Y	Y	Y	Y	Y
YGWC-24SB	Y	Y	Y	Y	Y	Y	Y	Y	Y
PZ-24IB	Y	Y	Y	Y	Y	Y	Y	Y	Y
YAMW-1	Y	Y	N	Y	Y	Y	Y	Y	Y
YGWC-36A	Y	Y	N	Y	Y	Y	Y	Y	Y
PZ-35	Y	Y	N	Y	Y	Y	Y	Y	Y
PZ-55	Y	Y	N	Y	Y	Y	Y	Y	Y
PZ-51	Y	Y	N	Y	Y	Y	Y	Y	Y
YGWC-43	Y	Y	N	Y	Y	Y	Y	Y	Y
PZ-56D	Y	Y	N	Y	Y	Y	Y	Y	Y
PZ-54D	Y	Y	N	Y	Y	Y	Y	Y	Y
YAMW-3	Y	Y	N	Y	Y	Y	Y	Y	Y
YGWC-42	Y	Y	N	Y	Y	Y	Y	Y	Y
YAMW-2	Y	Y	N	Y	Y	Y	Y	Y	Y
YAMW-4	Y	Y	N	Y	Y	Y	Y	Y	Y
YGWC-41	Y	Y	N	Y	Y	Y	Y	Y	Y
PZ-37	Y	Y	N	Y	Y	Y	Y	Y	Y
PZ-37D	Y	Y	N	Y	Y	Y	Y	Y	Y
PZ-52D	Y	Y	N	Y	Y	Y	Y	Y	Y
PZ-53D	Y	Y	N	Y	Y	Y	Y	Y	Y
YGWC-23S	Y	Y	N	Y	Y	Y	Y	Y	Y
YAMW-5	Y	Y	N	Y	Y	Y	Y	Y	Y
YGWC-38	Y	Y	N	Y	Y	Y	Y	Y	Y
YGWC-50	Y	Y	N	Y	Y	Y	Y	Y	Y

February 2025 Well Inspection Results
AMA/R6 Well Locations
Plant Yates

Well ID	Surface Pad			Internal Casing			Corrective actions as needed, by date:
	Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure	
PZ-4S	Y	Y	Y	Y	Y	Y	
PZ-5S	Y	Y	Y	Y	Y	Y	
YGWA-6I	Y	Y	Y	Y	Y	Y	
YGWA-6S	Y	Y	Y	Y	Y	Y	
PZ-6D	Y	Y	Y	Y	Y	Y	
YGWC-49	Y	Y	Y	Y	Y	Y	
PZ-48	Y	Y	Y	Y	Y	Y	
YGWC-24SB	Y	Y	Y	Y	Y	Y	
PZ-24IB	Y	Y	Y	Y	Y	Y	
YAMW-1	Y	Y	Y	Y	Y	Y	
YGWC-36A	Y	Y	Y	Y	Y	Y	
PZ-35	Y	Y	Y	Y	Y	Y	
PZ-55	Y	Y	Y	Y	Y	Y	
PZ-51	Y	Y	Y	Y	Y	Y	
YGWC-43	Y	Y	Y	Y	Y	Y	
PZ-56D	Y	Y	Y	Y	Y	Y	
PZ-54D	Y	Y	Y	Y	Y	Y	
YAMW-3	Y	Y	Y	Y	Y	Y	
YGWC-42	Y	Y	Y	Y	Y	Y	
YAMW-2	Y	Y	Y	Y	Y	Y	
YAMW-4	Y	Y	Y	Y	Y	Y	
YGWC-41	Y	Y	Y	Y	Y	Y	
PZ-37	Y	Y	Y	Y	Y	Y	
PZ-37D	Y	Y	Y	Y	Y	Y	
PZ-52D	Y	Y	Y	Y	Y	Y	
PZ-53D	Y	Y	Y	Y	Y	Y	
YGWC-23S	Y	Y	Y	Y	Y	Y	
YAMW-5	Y	Y	Y	Y	Y	Y	
YGWC-38	Y	Y	Y	Y	Y	Y	
YGWC-50	Y	Y	Y	Y	Y	Y	

YGWC-50 (May 2025)

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 6/5/2025 6:39:58 PM +00:00

Project Number	30143626	**Well ID**	YGWC-50			**Date**	5/21/2025
Project Location	Plant Yates, Newnan, GA		**Weather(°F)**	Clear. Higher 80s			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	27.98	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	4.58	**Total Depth (ft-bmp)**	39.28	**Water Column(ft)**	34.70	**Gallons in Well**	5.64
MP Elevation	729.78	**Pump Intake (ft-bmp)**	35	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	13:25	**Well Volumes Purged**	0.11	**Sample ID**	YAT-YGWC-50	**Sampled by**	David Prouty
Purge Start	12:53	**Gallons Purged**	0.63	**Replicate/ Code No.**	YAT-AMA-R6-FD-1	**Color**	Clear
Purge End	13:20						

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)
12:53	00:00	100	4.72	5.27	2038.73	4.01	2.95	22.80	106.78
12:58	05:00	100	4.75	5.13	2060.00	2.57	0.44	21.90	132.84
13:03	10:00	100	4.76	5.11	2054.08	2.02	0.33	21.50	138.20
13:08	15:00	100	4.76	5.10	2046.08	1.83	0.27	21.20	153.46
13:12	19:02	100	4.76	5.08	2054.13	1.43	0.20	21.40	166.74
13:17	24:02	100	4.76	5.08	2046.72	1.28	0.20	21.30	181.97

Constituent Sampled	Container	Number	Preservative
Chloride,Sulfate,Fluoride	250 mL Plastic	1	None
Metals	250 mL Plastic	2	HNO3
RAD	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None

Comments: YAT-AMA-R6-EB-1; YAT-AMA-R6-FB-1; YAT-AMA-R6-FD-1

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: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: May 21, 2025

Calibrated By: David Prouty

Field Conditions: Sunny

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	920479
Turbidity Meter	HACH 2100Q	20100D001015

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	5GA0524	Dec-26	Pine
pH (SU)	4.00	4GF0044	Jun-25	Insitu
pH (SU)	7.00	4GF0046	Jun-25	Insitu
pH (SU)	10.00	4GF0114	Jun-25	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	240.0	5GA0447	Oct-25	Pine

Calibration					
Time Start:		**Time Finish:**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	24.83	± 0.1	GWMP
pH (SU)	7.00	7.00	24.72	± 0.1	GWMP
pH (SU)	10.00	10.00	24.75	± 0.1	GWMP
D.O. (%)	N/A	100.00	23.71	± 10%	NA
ORP (mV)	240.0	240	25.10	± 10	EPA 2024

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	10.2	± 10% of standard	EPA 2023
	20	20.1		
	100	100		
	800	798		

Calibration Check					
Time Start:		**Time Finish:**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413			± 10% of standard	EPA 2023
pH (SU)	4.00			± 0.1	GWMP
pH (SU)	7.00			± 0.1	GWMP
pH (SU)	10.00			± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20		± 10% of standard	EPA 2023
	100			
	800			
	<0.10			

Notes:

Upgradient Wells

ARCADIS Design & Consultancy for natural and built assets

Groundwater Gauging Log

Client:	Georgia Power
Project Location:	AP-2
Date:	2/24/2025
Sampler:	David Prouty Jessica Ware
Equipment:	water probe

Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
YGWA-2I	2/24/2025	08:45:00	46.68	63.75	--
YGWA-3I	2/24/2025	08:51:00	52.34	59.05	--
YGWA-3D	2/24/2025	08:53:00	5.16	134.18	--
YGWA-1D	2/24/2025	08:55:00	50.35	128.85	--
YGWA-1I	2/24/2025	09:02:00	39.09	53.60	--
YGWA-4I	2/24/2025	09:12:00	24.32	48.81	--
YGWA-5D	2/24/2025	09:21:00	20.46	129.13	--
YGWA-5I	2/24/2025	09:23:00	19.97	58.94	--
YGWA-14S	2/24/2025	09:30:00	15.91	34.96	--
YGWA-30I	2/24/2025	09:39:00	42.97	59.48	--
YGWA-21I	2/24/2025	09:39:00	31.70	79.90	--
YGWA-20S	2/24/2025	09:56:00	11.42	29.52	--
YGWA-17S	2/24/2025	10:26:00	12.19	39.85	--
YGWA-18S	2/24/2025	10:31:00	21.32	39.97	--
YGWA-18I	2/24/2025	10:32:00	24.30	79.97	--
YGWA-47	2/24/2025	11:36:00	35.60	59.19	--
YGWA-40	2/24/2025	12:23:00	24.86	48.23	--
YGWA-39	2/24/2025	12:23:00	20.88	68.59	--

Groundwater Sampling Form

Updated : 2/25/2025 3:16:45 PM +00:00

Project Number	30113037	**Well ID**	YGWA-4I			**Date**	2/25/2025
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	It is Clear. The wind is blowing undefined at 0.0 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)	24.26	**Total Depth (ft-bmp)**	48.81	**Water Column(ft)**	24.55	**Gallons in Well**	3.99
MP Elevation	784.21	**Pump Intake (ft-bmp)**	45	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	09:48	**Well Volumes Purged**	0.35	**Sample ID**	YAT-YGWA-4I	**Sampled by**	Kim Lapszynski
Purge Start	09:10	**Gallons Purged**	1.39	**Replicate/ Code No.**		**Color**	Clear
Purge End	09:45						

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)
9:10:00	00:00	150	24.26	6.57	128.74	1.25	10.47	11.20	172.76
9:15:00	05:00	150	25.18	5.91	149.73	0.59	2.47	14.70	178.37
9:20:00	10:00	150	25.27	5.91	150.72	0.63	1.94	14.70	176.39
9:25:00	15:00	150	25.36	5.91	151.69	0.40	1.91	14.90	172.78
9:30:00	20:00	150	25.46	5.93	152.71	0.38	1.61	15.10	170.61
9:35:00	25:00	150	25.63	5.94	152.81	0.44	1.57	15.30	169.64
9:40:00	30:00	150	25.75	5.96	152.88	0.60	1.50	15.30	167.57
9:45:00	35:00	150	25.83	5.98	152.22	0.31	1.56	15.40	166.76

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
App III/IV Metals	250 mL Plastic	2	HNO3
Cl, SO4, F	250 mL Plastic	1	None
RAD 226/228	1L Plastic	2	HNO3
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: _____
Condition of Well: _____
Well Completion: _____
Well Locked at Arrival: _____
Well Locked at Departure: _____
Key Number To Well: _____

Groundwater Sampling Form

Updated : 2/25/2025 4:29:53 PM +00:00

Project Number	30113037	**Well ID**	YGWA-5I			**Date**	2/25/2025
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	It is Clear. The wind is blowing undefined at 0.0 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)	19.92	**Total Depth (ft-bmp)**	58.94	**Water Column(ft)**	39.02	**Gallons in Well**	6.34
MP Elevation	784.54	**Pump Intake (ft-bmp)**	53	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	10:57	**Well Volumes Purged**	0.13	**Sample ID**	YAT-YGWA-5I	**Sampled by**	Kim Lapszynski
Purge Start	10:35	**Gallons Purged**	0.79	**Replicate/ Code No.**		**Color**	Clear
Purge End	10:55						

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)
10:35:00	00:00	150	19.92	6.51	94.61	2.68	9.57	13.80	143.43
10:40:00	05:00	150	20.04	5.76	87.62	1.32	6.00	16.60	154.48
10:45:00	10:00	150	20.17	5.76	87.52	0.74	5.88	16.60	155.81
10:50:00	15:00	150	20.22	5.77	87.88	1.76	5.80	16.60	157.24
10:55:00	20:00	150	20.23	5.77	88.91	0.52	5.81	16.70	157.96

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
App III/IV Metals	250 mL Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None
RAD 226/228	1L Plastic	2	HNO3
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: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

Updated : 2/25/2025 5:14:12 PM +00:00

Project Number	30143622	**Well ID**	YGWA-18I			**Date**	2/25/2025
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	61.0 degrees F and Clear. The wind is blowing NW at 8.1 mph.			
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)	24.24	**Total Depth (ft-bmp)**	79.97	**Water Column(ft)**	55.73	**Gallons in Well**	9.06
MP Elevation	790.57	**Pump Intake (ft-bmp)**	75	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	12:10	**Well Volumes Purged**	0.12	**Sample ID**	YAT-YGWA-18I	**Sampled by**	Jessica Ware
Purge Start	11:49	**Gallons Purged**	1.06	**Replicate/ Code No.**		**Color**	Clear
Purge End	12:10						

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)
11:49:00	00:00	200	24.3	7.21	115.55	1.17	7.18	20.50	94.89
11:54:00	05:00	200	24.53	6.07	107.29	0.62	4.57	17.20	124.32
11:59:00	10:00	200	24.56	6.04	107.51	0.74	4.48	17.10	132.09
12:04:00	15:00	200	24.62	6.02	107.71	1.01	4.49	16.90	138.25
12:09:00	20:00	200	24.57	6.00	107.69	0.82	4.54	16.90	143.34

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
Anions	250 mL Plastic	1	None
Metals	250 mL Plastic	2	HNO3
RAD Chem	1L Plastic	2	HNO3
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: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

Updated : 2/25/2025 5:14:13 PM +00:00

Project Number	30143622	**Well ID**	YGWA-18S			**Date**	2/25/2025
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	It is Clear. The wind is blowing undefined at 0.0 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)	21.29	**Total Depth (ft-bmp)**	39.97	**Water Column(ft)**	18.68	**Gallons in Well**	3.04
MP Elevation	790.57	**Pump Intake (ft-bmp)**	35	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	10:12	**Well Volumes Purged**	0.71	**Sample ID**	YAT-YGWA-18S	**Sampled by**	Jessica Ware
Purge Start	09:13	**Gallons Purged**	2.17	**Replicate/ Code No.**	YAT-UGRD-FD-2	**Color**	Clear
Purge End	10:11						

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)
9:13:00	00:00	150	21.35	5.52	61.35	6.60	7.31	13.50	199.36
9:18:00	05:00	150	22.59	4.51	58.37	6.46	4.12	15.10	188.65
9:23:00	10:00	150	22.66	5.94	57.58	3.11	3.63	15.60	184.06
9:28:00	15:00	150	22.75	6.39	58.54	2.27	3.54	15.70	183.32
9:33:00	20:00	150	22.83	7.11	57.33	1.68	3.49	15.90	184.13
9:38:00	25:00	150	22.87	6.04	58.07	1.43	3.51	15.90	191.31
9:43:00	30:00	150	22.88	5.95	56.93	1.70	3.54	16.00	182.39
9:48:00	34:44	150	22.84	5.03	56.87	1.71	3.64	16.00	187.26
9:53:00	39:44	150	22.79	5.21	56.70	1.55	3.72	16.10	186.81
9:58:00	44:44	150	22.75	5.18	56.71	1.65	3.77	16.10	189.68
10:03:00	49:44	150	22.7	5.68	56.88	1.29	3.82	16.10	188.55
10:08:00	54:44	150	22.69	6.26	56.63	1.73	3.86	16.20	190.86

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

Comments: pH sensor malfunctioning. Okay to sample from G. Gay. Tested purge water at time of sampling with pH strip: 5 SU

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 : 2/25/2025 5:47:01 PM +00:00

Project Number	30113037	**Well ID**	YGWA-5D			**Date**	2/25/2025
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	57.7 degrees F and Clear. The wind is blowing NW 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)	20.55	**Total Depth (ft-bmp)**	129.13	**Water Column(ft)**	108.58	**Gallons in Well**	17.64
MP Elevation	784.53	**Pump Intake (ft-bmp)**	124	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	11:56	**Well Volumes Purged**	0.07	**Sample ID**	YAT-YGWA-5D	**Sampled by**	Kim Lapszynski
Purge Start	11:34	**Gallons Purged**	1.32	**Replicate/ Code No.**	YAT-UGRD-FB-2	**Color**	Clear
Purge End	11:54						

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)
11:34:00	00:00	250	20.55	6.82	209.70	1.11	9.20	14.80	147.56
11:39:00	05:00	250	21.24	7.40	224.53	1.10	0.28	16.70	-176.23
11:44:00	10:00	250	21.25	7.40	221.86	1.27	0.16	16.70	-200.63
11:49:00	15:00	250	21.25	7.38	217.55	0.75	0.12	16.80	-214.72
11:54:00	20:00	250	21.25	7.40	215.44	0.34	0.10	16.80	-224.03

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
App III/IV Metals	250 mL Plastic	2	HNO3
Cl, SO4, F	250 mL Plastic	1	None
RAD 226/228	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None

Comments: Field Blank (YAT-UGRD-FB-2) collected at 1206.

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: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

Updated : 3/14/2025 2:32:41 PM -04:00

Project Number	30143623	**Well ID**	YGWA-14S			**Date**	02/25/2025
Project Location	AP-2		**Weather(°F)**	61.0 degrees F and Clear. The wind is blowing NW at 8.1 mph.			
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)	16.17	**Total Depth (ft-bmp)**	34.96	**Water Column(ft)**	18.79	**Gallons in Well**	3.05
MP Elevation	748.76	**Pump Intake (ft-bmp)**	30	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	13:00	**Well Volumes Purged**	0.35	**Sample ID**	YAT-YGWA-14S	**Sampled by**	Perry Studebaker
Purge Start	12:40	**Gallons Purged**	1.06	**Replicate/ Code No.**		**Color**	Clear
Purge End	13:00						

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)
12:40:00	00:00	200	16.17	5.66	63.19	0.51	7.56	18.4	97.74
12:45:00	05:00	200	16.62	5.02	64.90	0.24	6.34	18.7	151.54
12:50:00	10:00	200	16.62	5.08	64.90	0.21	6.20	18.8	169.21
12:55:00	15:00	200	16.62	5.13	64.94	0.19	6.15	18.7	180.80
13:00:00	20:00	200	16.62	5.16	65.14	0.33	6.06	18.7	188.94

Constituent Sampled	Container	Number	Preservative
RAD SW846 9315/8320	1L Plastic	2	HNO3
TDS (SM 2540C)	500 mL Plastic	1	None
Cl, F, SO4 (EPA 300.0)	250 mL Plastic	1	None
Alkalinity (SM2320B)	250 mL Plastic	1	None
Ap III/IV Metals + Na, K, Mg	250 mL Plastic	2	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:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 3/14/2025 2:33:06 PM -04:00

Project Number	30143623	**Well ID**	YGWA-2I			**Date**	02/25/2025
Project Location	AP-2		**Weather(°F)**	It is Clear. The wind is blowing undefined at 0.0 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)	47.03	**Total Depth (ft-bmp)**	63.75	**Water Column(ft)**	16.72	**Gallons in Well**	2.72
MP Elevation	866.25	**Pump Intake (ft-bmp)**	60	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	11:25	**Well Volumes Purged**	1.40	**Sample ID**	YAT-YGWA-2I	**Sampled by**	Perry Studebaker
Purge Start	09:25	**Gallons Purged**	3.82	**Replicate/ Code No.**		**Color**	Clear
Purge End	12:05						

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)
09:25:00	00:00	150	47.03	6.95	219.32	0.67	2.42	14.3	50.00
09:30:00	05:00	150	49.62	7.03	219.94	1.22	1.52	14.7	-23.43
09:35:00	10:00	150	50.62	6.97	218.95	0.52	1.26	14.6	-20.63
09:40:00	15:00	150	51.35	6.94	214.06	0.35	1.55	14.5	-15.71
09:45:00	20:00	150	52.33	6.96	209.69	0.37	2.10	14.6	-7.55
09:50:00	25:00	150	53.18	6.96	207.53	0.27	2.56	14.7	-0.50
09:55:00	30:00	150	53.88	6.99	206.21	0.30	2.95	14.8	1.77
10:00:00	35:00	150	54.58	7.00	205.95	0.35	3.29	15.0	2.38
10:05:00	40:00	110	54.85	7.02	205.53	0.38	3.48	14.8	3.71
10:10:00	45:00	110	55.07	7.01	205.81	0.50	3.56	15.1	2.38
10:15:00	50:00	110	55.28	7.03	206.07	0.42	3.61	15.3	-1.59
10:20:00	55:00	110	55.45	7.02	206.47	0.64	3.60	15.4	-0.85
10:25:00	00:00	110	55.63	7.01	210.22	0.43	3.39	15.6	-3.88
10:30:00	05:00	110	55.8	6.97	214.28	0.62	2.96	15.7	-3.16
10:35:00	10:00	110	55.98	6.97	216.37	0.45	2.64	15.8	-6.00
10:40:00	15:00	110	56.14	6.98	217.64	0.53	2.38	16.0	-6.78
10:45:00	20:00	110	56.28	6.98	218.16	0.65	2.07	16.6	-10.42
10:50:00	25:00	110	56.42	7.02	218.52	0.36	1.66	16.8	-12.35
10:55:00	30:00	110	56.56	7.01	218.17	0.28	1.31	17.4	-14.27
11:00:00	35:00	110	56.69	7.02	218.57	0.29	1.07	17.4	-17.36
11:05:00	40:00	110	56.82	7.04	219.35	0.42	0.89	17.8	-22.79
11:10:00	45:00	110	56.96	7.08	221.39	0.28	0.76	18.1	-35.25
11:15:00	50:00	110	57.1	7.11	223.41	0.32	0.64	18.2	-56.03
11:20:00	55:00	110	57.24	7.14	224.68	0.26	0.57	18.3	-76.95
11:22:00	56:48	110	57.3	7.14	225.04	0.26	0.56	18.0	-83.68

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Constituent Sampled	Container	Number	Preservative
RAD SW846 9315/8320	1L Plastic	2	HNO3
TDS (SM2540C)	500 mL Plastic	1	None
Cl, F, SO4 (EPA 300.0)	250 mL Plastic	1	None
Alkalinity (SM2320B)	250 mL Plastic	1	None
App III/IV Metals + Na, K, Mg	250 mL Plastic	2	HNO3

Comments: Purged well until stable(water level and DO took time to stabilize), then sampled

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:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

Updated : 2/25/2025 8:12:53 PM +00:00

Project Number	30113037	**Well ID**	YGWA-21I			**Date**	2/25/2025
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	61.0 degrees F and Clear. The wind is blowing NW at 8.1 mph.			
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)	31.68	**Total Depth (ft-bmp)**	79.9	**Water Column(ft)**	48.22	**Gallons in Well**	7.84
MP Elevation	783.7	**Pump Intake (ft-bmp)**	75	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	14:15	**Well Volumes Purged**	0.25	**Sample ID**	YGWA-21I	**Sampled by**	Kim Lapszynski
Purge Start	13:09	**Gallons Purged**	1.98	**Replicate/ Code No.**		**Color**	Clear
Purge End	14:14						

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)
13:09:00	00:00	150	31.68	7.31	161.14	1.52	9.89	18.10	183.59
13:14:00	05:00	150	32.83	6.60	167.82	1.76	1.75	18.60	-19.59
13:19:00	10:00	150	33.84	6.62	166.36	3.76	0.55	18.40	-56.54
13:24:00	15:00	100	34.59	6.59	162.39	2.71	0.42	18.70	-61.71
13:29:00	20:00	100	35.27	6.56	157.17	1.49	0.36	18.70	-61.48
13:34:00	25:00	100	35.9	6.53	153.28	1.22	0.40	18.80	-57.99
13:39:00	30:00	100	36.37	6.51	151.25	1.15	0.40	19.40	-57.87
13:44:00	35:00	100	36.68	6.50	150.37	1.13	0.38	19.70	-59.35
13:49:00	40:00	100	36.97	6.51	151.62	1.18	0.40	19.60	-61.21
13:54:00	45:00	100	37.28	6.52	153.32	0.63	0.43	19.70	-62.14
13:59:00	50:00	100	37.51	6.52	153.52	0.86	0.41	19.70	-62.57
14:04:00	55:00	100	37.73	6.53	153.98	0.62	0.41	20.20	-64.41
14:09:00	00:00	100	37.89	6.54	155.07	0.66	0.42	20.30	-65.00
14:14:00	05:00	100	38.01	6.55	156.34	0.35	0.42	20.60	-65.02

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
App III/IV Metals	250 mL Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None
RAD 226/228	1L Plastic	2	HNO3
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

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 3/14/2025 2:33:59 PM -04:00

Project Number	30143623	**Well ID**	YGWA-30I			**Date**	02/25/2025
Project Location	AP-2		**Weather(°F)**	69.1 degrees F and Clear. The wind is blowing N/NW at 11.4 mph.			
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)	43.23	**Total Depth (ft-bmp)**	59.48	**Water Column(ft)**	16.25	**Gallons in Well**	2.64
MP Elevation	762.58	**Pump Intake (ft-bmp)**	54.5	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	14:55	**Well Volumes Purged**	0.40	**Sample ID**	YAT-YGWA-30I	**Sampled by**	Perry Studebaker
Purge Start	14:31	**Gallons Purged**	1.06	**Replicate/ Code No.**	YAT-UGRD-FB-1	**Color**	Clear
Purge End	15:15						

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)
14:31:00	00:00	200	43.24	6.14	49.61	0.59	8.20	19.3	172.05
14:36:00	05:00	200	43.24	5.33	46.24	0.20	7.21	19.1	188.94
14:41:00	10:00	200	43.24	5.37	45.05	0.18	7.08	19.1	186.70
14:46:00	15:00	200	43.24	5.40	44.98	0.31	7.05	19.0	187.73
14:51:00	20:00	200	43.24	5.45	44.59	0.20	7.03	19.0	187.02

Constituent Sampled	Container	Number	Preservative
RAD SW846 9315/8320	1L Plastic	2	HNO3
TDS (SM 2540C)	500 mL Plastic	1	None
Cl, F, SO4 (EPA 300.0)	250 mL Plastic	1	None
Alkalinity (SM2320B)	250 mL Plastic	1	None
App III/IV Metals + Na, K, Mg	250 mL Plastic	2	HNO3

Comments: YAT-UGRD-FB-1 taken at 1535

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:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 2/25/2025 9:07:18 PM +00:00

Project Number	30143622	**Well ID**	YGWA-17S			**Date**	2/25/2025
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	61.0 degrees F and Clear. The wind is blowing NW at 8.1 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)	12.22	**Total Depth (ft-bmp)**	39.85	**Water Column(ft)**	27.63	**Gallons in Well**	4.49
MP Elevation	783.05	**Pump Intake (ft-bmp)**	35	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	13:05	**Well Volumes Purged**	0.24	**Sample ID**	YGWA-17S	**Sampled by**	Jessica Ware
Purge Start	12:43	**Gallons Purged**	1.06	**Replicate/ Code No.**		**Color**	Clear
Purge End	13:05						

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)
12:43:00	00:00	200	12.25	5.65	100.00	1.33	5.90	17.90	142.42
12:48:00	05:00	200	12.61	5.53	96.26	0.62	2.86	17.70	149.54
12:53:00	10:00	200	12.69	5.56	97.92	1.77	2.81	17.70	152.99
12:58:00	15:00	200	12.71	5.58	97.87	1.32	2.81	17.70	156.50
13:03:00	20:00	200	12.65	5.59	98.40	1.36	2.84	17.70	159.56

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
Anions	250 mL Plastic	1	None
Metals	250 mL Plastic	2	HNO3
RAD Chem	1L Plastic	2	HNO3
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: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 2/25/2025 9:07:19 PM +00:00

Project Number	30143622	**Well ID**	YGWA-40			**Date**	2/25/2025
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	68.7 degrees F and Clear. The wind is blowing NW at 10.3 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)	24.74	**Total Depth (ft-bmp)**	48.23	**Water Column(ft)**	23.49	**Gallons in Well**	3.82
MP Elevation	815.73	**Pump Intake (ft-bmp)**	42	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	14:21	**Well Volumes Purged**	0.28	**Sample ID**	YAT-YGWA-40	**Sampled by**	Jessica Ware
Purge Start	13:59	**Gallons Purged**	1.06	**Replicate/ Code No.**		**Color**	Clear
Purge End	14:21						

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)
13:59:00	00:00	200	24.3	5.63	154.46	0.72	6.38	18.80	189.28
14:04:00	05:00	200	25.81	4.99	109.49	0.64	0.23	17.80	251.75
14:09:00	10:00	200	25.96	5.02	108.10	1.90	0.15	17.60	378.05
14:14:00	15:00	200	25.99	5.05	108.66	1.17	0.12	17.60	482.06
14:19:00	20:00	200	26.03	5.07	109.16	1.24	0.11	17.60	533.82

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
Anions	250 mL Plastic	1	None
Metals	250 mL Plastic	2	HNO3
RAD Chem	1L Plastic	2	HNO3
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: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 2/25/2025 9:07:20 PM +00:00

Project Number	30143622	**Well ID**	YGWA-39			**Date**	2/25/2025
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	71.4 degrees F and Clear. The wind is blowing W at 10.3 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)	21.13	**Total Depth (ft-bmp)**	68.59	**Water Column(ft)**	47.46	**Gallons in Well**	7.71
MP Elevation	818.19	**Pump Intake (ft-bmp)**	63	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	15:22	**Well Volumes Purged**	0.10	**Sample ID**	YAT-YGWA-39	**Sampled by**	Jessica Ware
Purge Start	14:59	**Gallons Purged**	0.79	**Replicate/ Code No.**		**Color**	Clear
Purge End	15:22						

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)
14:59:00	00:00	150	21.44	6.62	359.64	0.58	8.13	19.80	197.65
15:04:00	05:00	150	21.56	5.82	396.04	0.62	0.34	18.90	32.11
15:09:00	10:00	150	21.68	5.82	397.05	0.85	0.14	18.80	24.73
15:14:00	15:00	150	21.72	5.82	395.76	0.45	0.12	18.90	31.58
15:19:00	20:00	150	21.7	5.81	392.07	0.37	0.12	18.80	35.68

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
Anions	250 mL Plastic	1	None
Metals	250 mL Plastic	2	HNO3
RAD Chem	1L Plastic	2	HNO3
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: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 2/25/2025 9:24:04 PM +00:00

Project Number	30113037	**Well ID**	YGWA-20S			**Date**	2/25/2025
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	70.0 degrees F and Clear. The wind is blowing W/SW at 5.8 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)	11.42	**Total Depth (ft-bmp)**	29.52	**Water Column(ft)**	18.10	**Gallons in Well**	2.94
MP Elevation	767.12	**Pump Intake (ft-bmp)**	24.5	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	15:48	**Well Volumes Purged**	0.27	**Sample ID**	YAT-YGWA-20S	**Sampled by**	Kim Lapszynski
Purge Start	15:26	**Gallons Purged**	0.79	**Replicate/ Code No.**		**Color**	Clear
Purge End	15:46						

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)
15:26:00	00:00	150	11.42	6.18	70.17	2.62	8.09	20.60	174.07
15:31:00	05:00	150	12	6.03	60.82	5.35	8.16	17.20	167.16
15:36:00	10:00	150	12.01	6.02	60.86	4.72	8.03	17.00	172.70
15:41:00	15:00	150	12.01	6.05	61.02	3.52	8.01	16.80	176.18
15:46:00	20:00	150	12.02	6.07	61.03	2.45	7.97	16.80	180.55

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
App III/IV Metals	250 mL Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	1	None
RAD 226/228	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None

Comments: Collected EB (YAT-UGRD-EB-2) at 1610.

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: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

Updated : 3/14/2025 2:34:24 PM -04:00

Project Number	30143623	**Well ID**	YGWA-47			**Date**	02/25/2025
Project Location	AP-1		**Weather(°F)**	72.5 degrees F and Clear. The wind is blowing W at 6.9 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)	35.89	**Total Depth (ft-bmp)**	59.19	**Water Column(ft)**	23.3	**Gallons in Well**	3.79
MP Elevation	758.22	**Pump Intake (ft-bmp)**	54	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	16:55	**Well Volumes Purged**	0.42	**Sample ID**	YAT-YGWA-47	**Sampled by**	Perry Studebaker
Purge Start	16:25	**Gallons Purged**	1.59	**Replicate/ Code No.**		**Color**	Clear
Purge End	17:15						

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)
16:25:00	00:00	200	35.89	5.79	221.74	4.41	6.02	19.2	193.65
16:30:00	05:00	200	36.44	5.46	218.98	0.78	2.39	19.2	191.42
16:35:00	10:00	200	36.44	5.47	218.05	0.35	2.13	19.0	192.07
16:40:00	15:00	200	36.44	5.48	217.88	0.33	1.95	19.1	190.94
16:45:00	20:00	200	36.44	5.51	217.93	0.23	1.83	19.0	189.98
16:50:00	25:00	200	36.44	5.51	217.86	0.18	1.74	19.1	193.15
16:55:00	30:00	200	36.44	5.52	217.85	0.21	1.70	18.9	194.27

Constituent Sampled	Container	Number	Preservative
RAD SW846 9315/8320	1L Plastic	2	HNO3
TDS (SM 2540C)	500 mL Plastic	1	None
Cl, F, SO4 (EPA 300.0)	250 mL Plastic	1	None
Alkalinity (SM2320B)	250 mL Plastic	1	None
App III/IV Metals + Na, K, Mg	250 mL Plastic	2	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: _____

Condition of Well: _____

Well Completion: NA

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 3/10/2025 1:28:52 PM +00:00

Project Number	30113037	**Well ID**	YGWA-3I			**Date**	2/25/2025
Project Location	AP-2		**Weather(°F)**	57.7 degrees F and Clear. The wind is blowing NW at 6.9 mph.			
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)	51.97	**Total Depth (ft-bmp)**	59.05	**Water Column(ft)**	7.08	**Gallons in Well**	1.15
MP Elevation	796.55	**Pump Intake (ft-bmp)**	54	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	12:10	**Well Volumes Purged**	0.92	**Sample ID**	YAT-YGWA-3I	**Sampled by**	David Prouty
Purge Start	11:24	**Gallons Purged**	1.06	**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)
11:24:00	00:00	100	52.3	7.55	184.91	0.49	8.65	18.00	115.98
11:29:00	05:00	100	52.33	7.60	235.78	0.95	4.85	17.50	118.74
11:34:00	10:00	100	52.35	7.55	234.81	1.06	3.29	17.30	58.91
11:39:00	15:00	100	52.35	7.56	224.42	0.64	2.12	17.20	-42.86
11:44:00	20:00	100	52.35	7.56	214.31	0.78	1.47	17.00	-75.36
11:49:00	25:00	100	52.35	7.55	206.35	0.94	1.11	17.10	-89.68
11:54:00	30:00	100	52.35	7.55	199.93	1.11	0.89	17.10	-97.75
11:59:00	35:00	100	52.35	7.55	195.45	0.55	0.78	17.10	-102.50
12:04:00	40:00	100	52.35	7.55	190.89	0.38	0.68	17.20	-105.77

Constituent Sampled	Container	Number	Preservative
Alkalinity	250mL HDPE Plastic	1	None
Cl SO4 F	250mL HDPE Plastic	1	None
Metals	250 mL Plastic	2	HNO3
RAD Chem	1L Plastic	2	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: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 3/13/2025 3:04:11 PM -04:00

Project Number	30113037	**Well ID**	YGWA-1I			**Date**	02/25/2025
Project Location	AP-2		**Weather(°F)**	71.4 degrees F and Clear. The wind is blowing W at 10.3 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	43.3	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	39.05	**Total Depth (ft-bmp)**	53.6	**Water Column(ft)**	14.55	**Gallons in Well**	2.36
MP Elevation	836.6	**Pump Intake (ft-bmp)**	49	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	16:40	**Well Volumes Purged**	0.62	**Sample ID**	YAT-YGWA-1I	**Sampled by**	David Prouty
Purge Start	15:39	**Gallons Purged**	1.45	**Replicate/ Code No.**	YAT-UGRD-FD-1	**Color**	Clear
Purge End	17:27						

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)
15:39:00	00:00	100	39.82	6.49	61.55	0.63	5.76	17.1	27.30
15:44:00	05:00	100	42.27	6.41	72.97	0.65	2.21	17.3	7.33
15:49:00	10:00	100	42.44	6.17	69.50	0.48	2.33	17.2	35.34
15:54:00	15:00	100	42.55	6.09	66.19	0.42	2.96	17.2	58.06
15:59:00	20:00	100	42.64	6.05	62.05	0.33	2.99	17.1	72.12
16:04:00	25:00	100	42.78	5.97	58.50	0.56	2.68	17.2	87.19
16:09:00	30:00	100	42.81	5.98	55.21	0.49	2.59	17.3	94.45
16:14:00	35:00	100	42.87	5.99	51.97	0.40	3.02	17.2	100.64
16:19:00	40:00	100	42.92	6.02	49.07	0.33	3.68	17.1	104.29
16:24:00	45:00	100	42.95	6.00	47.18	0.32	4.21	17.0	110.98
16:29:00	50:00	100	42.97	6.01	46.04	0.50	4.51	17.1	114.74
16:34:00	55:00	100	42.99	6.02	44.98	0.46	4.69	17.1	118.14

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

Comments: Collected equipment blank YAT-UGRD-EB-1 at 17:30

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 : 3/10/2025 1:29:27 PM +00:00

Project Number	30113037	**Well ID**	YGWA-3D			**Date**	2/25/2025
Project Location	AP-2		**Weather(°F)**	It is Clear. The wind is blowing undefined at 0.0 mph.			
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)	34.72	**Total Depth (ft-bmp)**	134.18	**Water Column(ft)**	99.46	**Gallons in Well**	16.16
MP Elevation	796.78	**Pump Intake (ft-bmp)**	113	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	10:30	**Well Volumes Purged**	0.05	**Sample ID**	YAT-YGWA-3D	**Sampled by**	David Prouty
Purge Start	09:51	**Gallons Purged**	0.79	**Replicate/ Code No.**		**Color**	Clear
Purge End	11:00						

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)
9:51:00	00:00	100	34.75	6.85	218.03	1.55	2.73	17.50	5.17
9:56:00	05:00	100	34.77	7.03	200.52	0.96	0.82	16.20	-128.62
10:01:00	10:00	100	34.77	7.44	201.47	1.66	0.56	16.40	-163.84
10:06:00	15:00	100	34.77	7.60	201.51	2.00	0.48	16.40	-160.70
10:11:00	20:00	100	34.77	7.70	200.87	1.93	0.38	16.50	-156.62
10:16:00	25:00	100	34.77	7.75	200.95	1.09	0.31	16.60	-157.95
10:21:00	30:00	100	34.77	7.79	201.09	0.91	0.27	16.70	-161.74

Constituent Sampled	Container	Number	Preservative
Alkalinity	250mL HDPE Plastic	1	None
Cl SO4 F	250mL HDPE Plastic	1	None
Metals	250mL HDPE Plastic	2	HNO3
RAD Chem	1L Plastic	2	HNO3
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: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

Updated : 3/10/2025 1:29:34 PM +00:00

Project Number	30113037	**Well ID**	YGWA-1D			**Date**	2/25/2025
Project Location	AP-2		**Weather(°F)**	68.7 degrees F and Clear. The wind is blowing NW at 10.3 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)	50.3	**Total Depth (ft-bmp)**	128.85	**Water Column(ft)**	78.55	**Gallons in Well**	12.76
MP Elevation	837.25	**Pump Intake (ft-bmp)**	108	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	14:25	**Well Volumes Purged**	0.06	**Sample ID**	YAT-YGWA-1D	**Sampled by**	David Prouty
Purge Start	13:49	**Gallons Purged**	0.76	**Replicate/ Code No.**		**Color**	Clear
Purge End	15:12						

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)
13:49:00	00:00	100	50.3	6.94	141.90	1.48	7.43	17.90	229.25
13:54:00	05:00	100	50.38	6.82	147.17	1.01	1.88	17.80	-85.10
13:59:00	10:00	100	50.38	6.99	162.82	0.79	0.99	17.80	-94.23
14:04:00	14:35	100	50.38	7.10	166.38	0.47	0.66	17.60	-97.70
14:11:00	21:47	100	50.38	7.18	164.28	0.36	0.51	17.50	-93.23
14:17:00	27:29	100	50.38	7.19	161.78	0.44	0.53	17.60	-83.00
14:18:00	28:37	100	50.38	7.18	161.30	0.44	0.54	17.70	-81.23

Constituent Sampled	Container	Number	Preservative
Alkalinity VOCs	250mL HDPE Plastic	1	None
Cl SO4 F	250mL HDPE Plastic	1	None
Metals	250mL HDPE Plastic	2	HNO3
RAD Chem	1L Plastic	2	HNO3
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: _____ Key Number To Well: _____

February 2025 Well Inspection Results
Upgradient Well Locations
Plant Yates

Well ID	Location/Identification				Protective Casing				
	Visible and accessible	Properly identified with correct well ID	Located in high traffic area; does the well require protection from traffic	Acceptable drainage around well (no standing water, not located in obvious drainage flow path)	Free from apparent damage and able to be secured	No degradation or deterioration	Functioning weep hole	Annular space clear of debris and water, or filled with pea gravel/sand	Locked and is the lock in good condition
YGWA-3I	Y	Y	Y	Y	Y	Y	Y	Y	Y
YGWA-3D	Y	Y	Y	Y	Y	Y	Y	Y	Y
YGWA-4I	Y	Y	N	Y	Y	Y	Y	Y	Y
YGWA-5I	Y	Y	N	Y	Y	Y	Y	Y	Y
YGWA-5D	Y	Y	N	Y	Y	Y	Y	Y	Y
YGWA-21I	Y	Y	N	Y	Y	Y	Y	Y	Y
YGWA-20S	Y	Y	N	Y	Y	Y	Y	Y	Y
YGWA-17S	Y	Y	N	Y	Y	Y	Y	Y	Y
YGWA-18I	Y	Y	N	Y	Y	Y	Y	Y	Y
YGWA-18S	Y	Y	N	Y	Y	Y	Y	Y	Y
YGWA-40	Y	Y	N	Y	Y	Y	Y	Y	Y
YGWA-2I	Y	Y	N	Y	Y	Y	N	Y	Y
YGWA-1D	Y	Y	N	Y	Y	Y	Y	Y	Y
YGWA-1I	Y	Y	N	Y	Y	Y	Y	Y	Y
YGWA-30I	Y	Y	N	Y	Y	Y	Y	Y	Y
YGWA-47	Y	Y	N	Y	Y	Y	Y	Y	Y
YGWA-39	Y	Y	N	Y	Y	Y	Y	Y	Y
YGWA-14S	Y	Y	N	Y	Y	Y	Y	Y	Y

February 2025 Well Inspection Results
Upgradient Well Locations
Plant Yates

Well ID	Surface Pad			Internal Casing			Corrective actions as needed, by date:
	Good condition (not cracked/ broken)	Sloped away from the protective casing	In complete contact with the ground surface and stable	Cap prevents entry of foreign material into the well	Free of kinks/bends, or any obstructions from foreign objects (such as bailers)	Properly vented for equilibration of air pressure	
YGWA-3I	Y	Y	Y	Y	Y	Y	Near logging activities.
YGWA-3D	Y	Y	Y	Y	Y	Y	Near logging activities.
YGWA-4I	Y	Y	Y	Y	Y	Y	
YGWA-5I	Y	Y	Y	Y	Y	Y	
YGWA-5D	Y	Y	Y	Y	Y	Y	
YGWA-21I	Y	Y	Y	Y	Y	Y	
YGWA-20S	Y	Y	Y	Y	Y	Y	
YGWA-17S	Y	Y	Y	Y	Y	Y	
YGWA-18I	Y	Y	Y	Y	Y	Y	
YGWA-18S	Y	Y	Y	Y	Y	Y	
YGWA-40	Y	Y	Y	Y	Y	Y	
YGWA-2I	Y	Y	Y	Y	Y	Y	
YGWA-1D	Y	Y	Y	Y	Y	Y	
YGWA-1I	Y	Y	Y	Y	Y	Y	
YGWA-30I	Y	Y	Y	Y	Y	Y	
YGWA-47	Y	Y	Y	Y	Y	Y	
YGWA-39	Y	Y	Y	Y	Y	Y	
YGWA-14S	Y	Y	Y	Y	Y	Y	

Appendix B

Analytical Laboratory Data and Validation Reports

Georgia Power Co. – Plant Yates

Data Review Report

Metals, General Chemistry, and Radium Analyses

SDGs #92781919 and 92781920

Analyses Performed By:
Pace Analytical Services – West Columbia, South Carolina
Pace Analytical Services – Asheville, North Carolina
Pace National – Mt. Juliet, Tennessee
Pace Analytical Services – Greensburg, Pennsylvania

Report #58788R
Review Level: Tier II
Project: 30143622.3D, 30143623.3D, 30143625.3D, 30143626.3D

Summary

This Data Review Report summarizes the review of Sample Delivery Groups (SDGs) #92781919 and 92781920 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-PZ-35	92781919001 92781920001	Water	2/25/2025		X	X	X
YAT-YGWC-50	92781919002 92781920002	Water	2/26/2025		X	X	X
YAT-YAMW-1	92781919003 92781920003	Water	2/26/2025		X	X	X
YAT-AMA-R6-FD-1	92781919004 92781920004	Water	2/26/2025	YAT-YAMW-1	X	X	X
YAT-YGWC-36A	92781919005 92781920005	Water	2/26/2025		X	X	X
YAT-YGWC-49	92781919006 92781920006	Water	2/26/2025		X	X	X
YAT-YGWC-38	92781919007 92781920007	Water	2/26/2025		X	X	X
YAT-YGWC-41	92781919008 92781920008	Water	2/26/2025		X	X	X
YAT-YGWC-42	92781919009 92781920009	Water	2/26/2025		X	X	X
YAT-YAMW-2	92781919010 92781920010	Water	2/26/2025		X	X	X
YAT-YAMW-3	92781919011 92781920011	Water	2/26/2025		X	X	X
YAT-YAMW-4	92781919012 92781920012	Water	2/26/2025		X	X	X

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					RAD	MET	GEN CHEM
YAT-AMA-R6-EB-1	92781919013 92781920013	Water	2/26/2025		X	X	X
YAT-AMA-R6-FB-1	92781919014 92781920014	Water	2/26/2025		X	X	X
YAT-AMA-R6-FD-2	92781919015 92781920015	Water	2/26/2025	YAT-YGWC-38	X	X	X
YAT-YGWC-43	92781919016 92781920016	Water	2/27/2025		X	X	X
YAT-PZ-51	92781919017 92781920017	Water	2/27/2025		X	X	X
YAT-PZ-55	92781919018 92781920018	Water	2/27/2025		X	X	X
YAT-PZ-54D	92781919019 92781920019	Water	2/27/2025		X	X	X
YAT-YGWC-23S	92781919020 92781920020	Water	2/27/2025		X	X	X
YAT-YAMW-5	92781919021 92781920021	Water	2/27/2025		X	X	X
YAT-PZ-37	92781919022 92781920022	Water	2/27/2025		X	X	X
YAT-PZ-37D	92781919023 92781920023	Water	2/27/2025		X	X	X
YAT-PZ-52D	92781919024 92781920024	Water	2/27/2025		X	X	X
YAT-YGWC-24SB	92781919025 92781920025	Water	3/17/2025		X	X	X
YAT-AMA-R6-EB-1	92781919026 92781920026	Water	3/17/2025		X	X	X
YAT-AMA-R6-FB-1	92781919027 92781920027	Water	3/17/2025		X	X	X

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					RAD	MET	GEN CHEM
YAT-AMA-R6-FD-1	92781919028 92781920028	Water	3/17/2025	YAT-YGWC-24SB	X	X	X

Notes:

1. Metals analysis performed by Pace Analytical Services – West Columbia, South Carolina.
2. Mercury, alkalinity, total dissolved solids, and anions (chloride, fluoride, and sulfate) analysis performed by Pace Analytical Services – Asheville, North Carolina.
3. Lithium analysis performed by Pace National – Mt. Juliet, Tennessee.
4. Radium analysis performed by Pace Analytical Services – Greensburg, Pennsylvania.

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 6020B, 7470A, 9315, and 9320; Standard Method (SM) SM2320B and SM2540C; 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.

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 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-YAMW-2	Boron (EB)	Detected sample results >RL and <BAL	“UB” at detected sample result
YAT-YGWC-49	Boron (EB, FB)	Detected sample results <RL and <BAL	“UB” at RL

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 was performed using samples YAT-YGWC-50 and YAT-PZ-37 in association with SW-846 6020B. The concentrations of boron, calcium, magnesium, and sodium in the unspiked sample were greater than four-times the spike concentration, hence, the results for these analytes were not evaluated.

The MS/MSD analysis performed using samples YAT-YGWC-36A and YAT-AMA-R6-FD-1 in association with lithium by method SW-846 6020B analysis exhibited recoveries within the control limits.

The MS/MSD analysis performed using samples YAT-PZ-35 and YAT-AMA-R6-FB-1 in association with SW-846 7470A 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.

MS/MSD analysis was performed in replacement of the laboratory duplicate analysis. 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.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YAT-YAMW-1 / YAT-AMA-R6-FD-1	Lithium	0.0285 J	0.0252 J	AC
	Barium	0.083	0.087	4.7%
	Boron	2.4	2.6	AC

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
	Cadmium	0.00021 J	0.00022 J	AC
	Calcium	50.7	53.0	4.4%
	Cobalt	0.0040 J	0.0059	AC
	Magnesium	39.7	41.4	4.2%
	Potassium	9.1	8.4	8.0%
	Selenium	0.0071	0.0073	AC
	Sodium	25.5	25.4	0.4%
YAT-YGWC-38 / YAT-AMA-R6-FD-2	Lithium	0.00621 J	0.00635 J	AC
	Barium	0.017	0.017	AC
	Beryllium	0.0018	0.0018	AC
	Boron	3.1	3.0	AC
	Cadmium	0.00064	0.00064	AC
	Calcium	39.2	39.4	AC
	Magnesium	21.1	20.5	2.9%
	Potassium	3.5	3.4	2.9%
	Selenium	0.045	0.044	2.2%
	Sodium	18.3	17.6	3.9%
YAT-YGWC-24SB / YAT-AMA-R6-FD-1	Lithium	0.000839 J	0.000944 J	AC
	Barium	0.027	0.027	0.0%
	Beryllium	0.00016 J	0.00050 U	AC
	Calcium	2.9	2.8	AC
	Magnesium	1.6	1.6	0.0%
	Potassium	1.4	1.3	AC
	Sodium	10.4	10.1	2.9%

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-YWGC-24SB and field duplicate sample YAT-AMA-R6-FD-1 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 6020B/7470A	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
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
Alkalinity by SM2320B	Water	14 days from collection to analysis	Cool to <6°C
Total Dissolved Solids (TDS) by SM2540C	Water	7 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-AMA-R6-FD-1, YAT-AMA-R6-FB-1, YAT-YAMW-5, and YAT-YGWC-24SB in association with anions analysis exhibited recoveries within the control limits. The

concentration of sulfate in the unspiked analysis of samples YAT-AMA-R6-FD-1 and YAT-YAMW-5 was greater than four-times the spike concentration, hence, the MS/MSD sample results were not evaluated.

The MS/MSD analysis performed in association with YAT-YAMW-2, YAT-YAMW-3, YAT-YGWC-43, and YAT-PZ-51 in association with alkalinity analysis exhibited recoveries within control limits with the exception presented in the table below.

Sample Location	Analyte	MS Recovery	MSD Recovery
YAT-YGWC-43	Alkalinity, Total as CaCO3	< LL but > 30%	AC

Note:
AC Acceptable

The criteria used to evaluate MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified. The qualifications are applied to the parent sample results in association with alkalinity analysis.

Control limit	Sample Result	Qualification
MS/MSD percent recovery 30% to 74%	Non-detect	UJ
	Detect	J
MS/MSD percent recovery <30%	Non-detect	R
	Detect	J
MS/MSD percent recovery >125%	Non-detect	No Action
	Detect	J

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 on samples YAT-YGWC-38, YAT-YGWC-23S, and YAT-AMA-R6-EB-1 in association with TDS analysis exhibited acceptable differences between the results.

MS/MSD analysis was performed in replacement of the laboratory duplicate analysis in association with alkalinity and anions analysis. 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.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YAT-YAMW-1 / YAT-AMA-R6-FD-1	Alkalinity, Bicarbonate (CaCO3)	23.7	21.9	AC
	Alkalinity, Total as CaCO3	23.7	21.9	AC
	Total Dissolved Solids	499	518	3.7%
	Chloride	5.2	5.3	1.9%
	Sulfate	239	252	5.3%
YAT-YGWC-38 / YAT-AMA-R6-FD-2	Alkalinity, Bicarbonate (CaCO3)	12.9	8.5	AC
	Alkalinity, Total as CaCO3	12.9	8.5	AC
	Total Dissolved Solids	347	346	0.3%
	Chloride	3.9	3.9	AC
	Sulfate	159	162	1.9%
YAT-YGWC-24SB / YAT-AMA-R6-FD-1	Alkalinity, Bicarbonate (CaCO3)	14.2	13.9	AC
	Alkalinity, Total as CaCO3	14.2	13.9	AC
	Total Dissolved Solids	70.0	85.0%	AC
	Chloride	8.6	8.6	0.0%

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-YGWC-24SB and field duplicate sample YAT-AMA-R6-FD-1 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: SM2320B, 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:

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

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.

x_0 = measured concentration of the unspiked sample.

c = spike concentration added.

$u^2(x)$, $u^2(x0)$, $u^2(c)$ = 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.

The laboratory duplicate analysis performed on sample locations YAT-PZ-35, YAT-YAMW-1, and YAT-YGWC-23S 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	0.235 ± 0.141	0.133 U ± 0.137	AC
	Radium-228	0.410 U ± 0.384	0.836 ± 0.441	
	Total Radium	0.645 U ± 0.525	0.969 U ± 0.578	
YAT-YGWC-38 / YAT-AMA-R6-FD-2	Radium-226	0.126 U ± 0.121	0.0924 U ± 0.134	AC

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
	Radium-228	0.799 U ± 0.565	0.352 U ± 0.368	
	Total Radium	0.925 U ± 0.686	0.444 U ± 0.502	
YAT-YGWC-24SB / YAT-AMA-R6-FD-1	Radium-226	0.0493 U ± 0.130	0.0448 U ± 0.0958	AC
	Radium-228	0.278 U ± 0.294	0.561 U ± 0.422	
	Total Radium	0.327 U ± 0.424	0.606 U ± 0.518	

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 results were below the MDC in the parent sample YAT-YGWC-38 and field duplicate sample YAT-AMA-R6-FD-2.

The differences in the results between the parent sample YAT-YGWC-24SB and field duplicate sample YAT-AMA-R6-FD-1 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 were qualified as “U” by the laboratory as applicable.

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 23, 2025

PEER REVIEW: Dennis Capria

DATE: April 25, 2025

Chain of Custody / Data Qualifier Summary Table

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

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92781919

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202551	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', R6		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected: [ ]AK [ ]PT [ ]MT [ ]CT [X]ET		County / State origin of sample(s):	Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [✓] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment
YAT-YAMW-2	WG	G						7		X	X	X	X	X	See Remarks
YAT-YAMW-3	WG	G						7		X	X	X	X	X	See Remarks
YAT-YAMW-4	WG	G						7		X	X	X	X	X	See Remarks
YAT-YAMW-5	WG	G						7		X	X	X	X	X	See Remarks
YAT-PZ-37	WG	G						7		X	X	X	X	X	See Remarks
YAT-PZ-35	WG	G	2/25/25	1758	—	—		7		X	X	X	X	X	See Remarks OU1
YAT-PZ-37D	WG	G						7		X	X	X	X	X	See Remarks
YAT-PZ-51	WG	G						7		X	X	X	X	X	See Remarks
YAT-PZ-52D	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWC-50	WG	G						7		X	X	X	X	X	See Remarks

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Preservation non-conformance identified for sample

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - KIM LAPSZYNSKI
Signature: (Arcadis) -

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature) ARCADIS	2/26/25 1143	Received by/Company: (Signature) Ryan Williams / Pace	2/26/25 1143
Relinquished by/Company: (Signature) Ryan Williams / Pace	2/26/25 1355	Received by/Company: (Signature)	2/26/25 1355
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

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Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202551	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', R6		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET		County / State origin of sample(s):	Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other_____

Regulatory Program (DW, NCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____
Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [ ] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3
Identify Container Preservative Type***: 2 1 1 2 1
Analysis Requested

**Container Size: (1) 1L, (2) 500ml, (3) 250ml, (4) 125ml, (5) 100ml, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment	Preservation non-conformance identified for sample:
YAT-YAMW-2	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YAMW-3	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YAMW-4	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YAMW-5	WG	G						7		X	X	X	X	X	See Remarks	
YAT-PZ-37	WG	G						7		X	X	X	X	X	See Remarks	
YAT-PZ-35	WG	G						7		X	X	X	X	X	See Remarks	
YAT-PZ-37D	WG	G						7		X	X	X	X	X	See Remarks	
YAT-PZ-51	WG	G						7		X	X	X	X	X	See Remarks	
YAT-PZ-52D	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWC-50	WG	G	2/26/25	1520	—	—		7		X	X	X	X	X	See Remarks 002	

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Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - KIM LAPSZYNSKI
Signature: (Arcadis) -

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
/ARCADIS	2/27/25 0830	/Arcadis	2/27/25 0830
/Arcadis	2/27/25 1005	/Pace	2/27/25 1005
/Pace	2/27/25 1340		2/27/25 1340

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Contact/Report To:	Trey Singleton
Phone #:	205.346.3317
E-Mail:	rosingle@southernco.com
Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2025S1
Project Name:	Georgia Power Yates
Site Collection Info/Facility ID (as applicable):	YAT AP-3, A, B/B', R6
Invoice To:	
Invoice E-Mail:	
Purchase Order # (if applicable):	GPC82474-0002
Quote #:	
Time Zone Collected:	[ ] AK [ ] PT [ ] MT [ ] CT [X] ET
County / State origin of sample(s):	Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [✓] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT). Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size: ** — 3 3 2 1 3

Identify Container Preservative Type*** — 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) Na2SO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM 2320B)	Sample Comment
YAT-YGWC-23S	WG	G						7		X	X	X	X	X	See Remarks
YAT-YAMW-1	WG	G	2/26/25	1031	—	—		7		X	X	X	X	X	See Remarks 003
YAT-AMA-R6-FD-1	WG	G	2/26/25	—	—	—		7		X	X	X	X	X	See Remarks 004
YAT-YGWC-36A	WG	G	2/26/25	1205	—	—		7		X	X	X	X	X	See Remarks 005
YAT-YGWC-49	WG	G	2/26/25	0935	—	—		7		X	X	X	X	X	See Remarks 006
YAT-YGWC-38	WG	G	2/26/25	1720	—	—		7		X	X	X	X	X	See Remarks 007
YAT-YGWC-24SB	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWC-41	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWC-42	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWC-43	WG	G						7		X	X	X	X	X	See Remarks

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Preservation non-conformance identified for sample:

Customer Remarks / Special Conditions / Possible Hazards:

App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg,
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate and bicarbonate

Collected By:
Printed Name: (Arcadis) - KIM KAPSZYNSKI
Signature: (Arcadis) -

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time: 2/27/25 0830	Received by/Company: (Signature)	Date/Time: 2/27/25 0830	Tracking Number:
Relinquished by/Company: (Signature)	Date/Time: 2/27/25 1005	Received by/Company: (Signature)	Date/Time: 2/27/25 1005	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time: 2/27/25 1340	Received by/Company: (Signature)	Date/Time: 2/27/25 1340	Page: of
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)		

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Pace® Location Requested (City/State): Pace Analytical Charlotte, 9800 Kincey Ave. Suite 100, Huntersville, NC 28078

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		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202551	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', R6		Purchase Order # (if applicable):	GPCB2474-0002
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET		County / State origin of sample(s):	Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment
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YAT-YAMW-1	WG	G						7		X	X	X	X	X	See Remarks
YAT-AMA-R6-FD-1	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWC-36A	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWC-49	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWC-38	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWC-24SB	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWC-41	WG	G	2/26/25	1732	—			7		X	X	X	X	X	See Remarks 008
YAT-YGWC-42	WG	G	2/26/25	1210	—			7		X	X	X	X	X	See Remarks 009
YAT-YGWC-43	WG	G						7		X	X	X	X	X	See Remarks

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

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Preservation non-conformance identified for sample:

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Na, K, Mg: For Alkalinity: report total, carbonate, and bicarbonate

Collected By
Printed Name: (Arcadis) Jessica Work
Signature: (Arcadis)

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

	Date/Time		Date/Time
Relinquished by/Company: (Signature) Arcadis	2/27/25 1005	Received by/Company: (Signature) Ryan Williams / Pace	2/27/25 1005
Relinquished by/Company: (Signature) Ryan Williams / Pace	2/27/25 1340	Received by/Company: (Signature)	2/27/25 1340
Relinquished by/Company: (Signature)		Received by/Company: (Signature)	
Relinquished by/Company: (Signature)		Received by/Company: (Signature)	

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other

Page: of

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ENV-FRM-CORQ-0019_v01_082123

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave., Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.846.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202SS1	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', R6		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment	Preservation non-conformance identified for sample
YAT-YAMW-2	WG	G	2/26/25	1438				7		X	X	X	X	X	See Remarks 010	
YAT-YAMW-3	WG	G	2/26/25	1001				7		X	X	X	X	X	See Remarks 011	
YAT-YAMW-4	WG	G	2/26/25	1552				7		X	X	X	X	X	See Remarks 012	
YAT-YAMW-5	WG	G						7		X	X	X	X	X	See Remarks	
YAT-PZ-37	WG	G						7		X	X	X	X	X	See Remarks	
YAT-PZ-35	WG	G						7		X	X	X	X	X	See Remarks	
YAT-PZ-37D	WG	G						7		X	X	X	X	X	See Remarks	
YAT-PZ-51	WG	G						7		X	X	X	X	X	See Remarks	
YAT-PZ-52D	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWC-50	WG	G						7		X	X	X	X	X	See Remarks	

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Na, K, Mg: For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) Jessica Ware
Signature: (Arcadis)

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature) Jessica Ware / Arcadis	Date/Time: 2/27/25 1005	Received by/Company: (Signature) Evan Williams / Pace	Date/Time: 2/27/25 1005	Tracking Number:
Relinquished by/Company: (Signature) Evan Williams / Pace	Date/Time: 2/27/25 1340	Received by/Company: (Signature) Charlie Hunt 2/27/25	Date/Time: 1340	Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

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Pace® Location Requested (City/State): Pace Analytical Charlotte, 9800 Kincey Ave., Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trev Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2025S1	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B, R6		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment
YAT-AMA-R6-EB-1	WG	G	2/26/25	1225	—	—		7		X	X	X	X	X	See Remarks 013
YAT-AMA-R6-FB-1	WG	G	2/26/25	1045	—	—		7		X	X	X	X	X	See Remarks 014
YAT-YGWC-24SB	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWC-PZ-55	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWC-PZ-54D	WG	G						7		X	X	X	X	X	See Remarks
YAT-AMA-R6-FD-2	WG	G	2/26/25	—	—	—		7		X	X	X	X	X	See Remarks 015

Lab Use Only: Proj. Mgr: Bonnie Vang; Acct.Num / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non conformance identified for sample:

Customer Remarks / Special Conditions / Possible Hazards:

App III Metals: 6020B: B, 6010D: Ca

App IV: Metals 6020B: Sb, As, Sa, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.

Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:

Printed Name: (Arcadis) - KIM LAPSZYNSKI

Signature: (Arcadis) -

Additional Instructions from Pace*:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Arcadis	2/27/25 0830	Jordan Q. Dora / Arcadis	2/27/25 0830
Jordan Q. Dora / Arcadis	2/27/25 1005	Ryan Williams / Pace	2/27/25 1005
Ryan Williams / Pace	2/27/25 1340		2/27/25 1340

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

Page: of

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ENV-FRM-CORQ-0019_v01_082123 ©

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave., Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

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92781919

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202551	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/b', R6		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/9320	Alkalinity (SM2320B)	Sample Comment
YAT-YGWC-23S	WG	G						7		X	X	X	X	X	See Remarks
YAT-YAMW-1	WG	G						7		X	X	X	X	X	See Remarks
YAT-AMA-R6-FD-1	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWC-36A	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWC-49	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWC-38	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWC-24SB	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWC-41	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWC-42	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWC-43	WG	G	2/27/25	1324	—	—		7		X	X	X	X	X	See Remarks 016

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and b carbonate

Collected By:
Printed Name: (Arcadis) - Jessica Ware
Signature: (Arcadis) - Jessica Ware

Additional Instructions from Pace®:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Jessica Ware/Arcadis	2/27/25 1730	Tony Green/Arcadis	2/27/25 1730	
Tony Green/Arcadis	2/28/25 1100		2/28/25 1100	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
				Page: of

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Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

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LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202551	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', RB		Purchase Order # (if applicable):	GPCB2474-0002
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET		County / State origin of sample(s):	Georgia
Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other		Regulatory Program (DW, RCRA, etc.) as applicable:	
		Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other	DW PWSID # or WW Permit # as applicable:
		Date Results Requested:	Field Filtered (if applicable): [ ] Yes [X] No
			Analysis:

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only

Proj. Mgr: Bonnie Vang

AcctNum / Client ID:

Table #:

Profile / Template: 16561

Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/V Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment	Preservation non-conformance identified for sample.
YAT-YAMW-2	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YAMW-3	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YAMW-4	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YAMW-5	WG	G						7		X	X	X	X	X	See Remarks	
YAT-PZ-37	WG	G						7		X	X	X	X	X	See Remarks	
YAT-PZ-35	WG	G						7		X	X	X	X	X	See Remarks	
YAT-PZ-37D	WG	G						7		X	X	X	X	X	See Remarks	
YAT-PZ-51	WG	G	2/27/25	1418	—	—		7		X	X	X	X	X	See Remarks 017	
YAT-PZ-52D	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWC-50	WG	G						7		X	X	X	X	X	See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl 7040A: Hg
Additional metals (6010D): Na, K, Mg: For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) Jessica Ware
Signature: (Arcadis) Jessica Ware

Additional Instructions from Pace®:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Jessica Ware (Arcadis)	2/27/25 1730	Amy Brun /Arcadis	2/27/25 1730	
Amy Brun /Arcadis	2/28/25 1100		2/28/25 1100	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

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ENV-FRM-CORQ 0019_v01_082123 ©

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

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Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.366.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202551	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', R6		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET		County / State origin of sample(s):	Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment
YAT-AMA-R6-EB-1	WG	G						7		X	X	X	X	X	See Remarks
YAT-AMA-R6-FB-1	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWC-24SB	WG	G						7		X	X	X	X	X	See Remarks
YAT ~~YGWC~~-PZ-55 YAT-PZ-55	WG	G	2/27/25	1106	—	—		7		X	X	X	X	X	See Remarks 018
YAT-YGWC-PZ-54D	WG	G						7		X	X	X	X	X	See Remarks
YAT-AMA-R6-FD-2	WG	G						7		X	X	X	X	X	See Remarks

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only

Proj. Mgr: Bonnie Vang

AcctNum / Client ID:

Table #:

Profile / Template: 16561

Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample.

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Na, K, Mg: For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) Jessica Ware
Signature: (Arcadis)

Additional instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Jessica Ware/Arcadis	2/27/25 1730	Ping Shan /Arcadis	2/27/25 1730	
Ping Shan /Arcadis	2/28/25 1100		2/28/25 1100	Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

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ENV-FRM-CORQ-0019_v01_082123 ©

Pace* Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave., Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202551	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT AP-3, A, B/B', R6	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected:	[ ] AK [ ] PT [ ] MT [ ] CT [X] ET	County / State origin of sample(s):	Georgia
Data Deliverables:	[X] Level II [ ] Level III [ ] Level IV; [X] EQUIS; [ ] Other	Regulatory Program (DW, RCRA, etc.) as applicable:	
		Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other	DW PWSID # or WW Permit # as applicable:
		Date Results Requested:	Field Filtered (if applicable): [ ] Yes [ ] No; Analysis:

Specify Container Size **: 3 3 2 1 3
Identify Container Preservative Type***: 2 1 1 2 1
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (for Composite Start) Date	Collected (for Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment	Preservation non-conformance identified for sample
YAT-AMA-R6-EB-1	WG	G						7		X	X	X	X	X	See Remarks	
YAT-AMA-R6-FB-1	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWC-24SB	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWC-PZ-55	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWC-PZ-54D	WG	G	2/27	1300				7		X	X	X	X	X	See Remarks 019	
YAT-AMA-R6-FD-2	WG	G						7		X	X	X	X	X	See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) -
Signature: (Arcadis) -

Additional Instructions from Pace*:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Pam Bunn / Arcadis	2/28/25 1100		2/28/25 1100	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In-Person [ ] Courier
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	[ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

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ENV-FRM-CORQ-0019_v01_082123

Pace® Location Requested (City/State)
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

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LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd. Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202551	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', R6		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only

Proj. Mgr: Bonnie Vang

AcctNum / Client ID:

Table #:

Profile / Template: 16561

Prelog / Bottle Ord. ID:

* Matrix Codes (insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals - Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment	Preservation non-conformance identified for sample
YAT-YGWC-23S	WG	G	2/27/25	1610	—	—		7		X	X	X	X	X	See Remarks 020	
YAT-YAMW-1	WG	G						7		X	X	X	X	X	See Remarks	
YAT-AMA-R6-FD-1	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWC-36A	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWC-49	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWC-38	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWC-24SB	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWC-41	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWC-42	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWC-43	WG	G						7		X	X	X	X	X	See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - KIM LAPSZYNSKI
Signature: (Arcadis) -

Additional Instructions from Pace®:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
/ARCADIS	2/27/25 1700	/Arcadis	2/27/25 1700	
/Arcadis	2/28/25 1100		2/28/25 1100	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
				Page: of

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Pace® Location Requested (City/State): Pace Analytical Charlotte, 9800 Kincey Ave., Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202551	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', RG		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [✓] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Preloc / Bottle Ord. ID:

Preservation non-conformance identified for sample

Customer Sample ID	Matrix*	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment
YAT-YAMW-2	WG	G						7		X	X	X	X	X	See Remarks
YAT-YAMW-3	WG	G						7		X	X	X	X	X	See Remarks
YAT-YAMW-4	WG	G						7		X	X	X	X	X	See Remarks
YAT-YAMW-5	WG	G	2/27/25	1457	—	—		7		X	X	X	X	X	See Remarks 021
YAT-PZ-37	WG	G	2/27/25	1352	—	—		7		X	X	X	X	X	See Remarks 022
YAT-PZ-35	WG	G						7		X	X	X	X	X	See Remarks
YAT-PZ-37D	WG	G	2/27/25	1231	—	—		7		X	X	X	X	X	See Remarks 023
YAT-PZ-51	WG	G						7		X	X	X	X	X	See Remarks
YAT-PZ-52D	WG	G	2/27/25	1027	—	—		7		X	X	X	X	X	See Remarks 024
YAT-YGWC-50	WG	G						7		X	X	X	X	X	See Remarks

Customer Remarks / Special Conditions / Possible Hazards:

App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Na, K. Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By: Printed Name: (Arcadis) - KIM LAPSZYNSKI Signature: (Arcadis) -

Additional Instructions from Pace®:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
/ARCADIS	2/27/25 1700	/Arcadis	2/27/25 1700	
/Arcadis	2/28/25 1100		2/28/25 1100	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
				Page: of

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ENV-FRM-CORO-0019_v01_082123 ©

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

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Scan QR Code for instructions

92781919

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2025S1	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, AP-3/B', R6		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. CL2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment
YAT-YGWC-24SB	WG	G	03/17/25	1445	—	—		7		X	X	X	X	X	See Remarks 025
YAT-AMA-R6-EB-1	WG	G	03/17/25	1135	—	—		7		X	X	X	X	X	See Remarks 026
YAT-AMA-R6-FB-1	WG	G	03/17/25	1515	—	—		7		X	X	X	X	X	See Remarks 027
YAT-AMA-R6-FD-1	WG	G	03/17/25	—	—	—		7		X	X	X	X	X	See Remarks 028

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only

Proj. Mgr: Bonnie Vang

AcctNum / Client ID:

Table #:

Profile / Template: 16561

Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample:

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) David Prouty
Signature: (Arcadis)

Additional Instructions from Pace®:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
	03/18/25 1153		3/18/25 1153	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In- Person [ ] Courier
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	[ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

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SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier	Reason for Validation Qualifier
92781919	YAT-YGWC-43	SM2320B	Alkalinity, Total as CaCO3	32.9	mg/L	J	MS %R
	YAT-YGWC-49	SW846 6020B	Boron	0.040	mg/L	UB	Blank contamination
	YAT-YAMW-2	SW846 6020B	Boron	0.052	mg/L	UB	Blank contamination
92781920	No qualifiers assigned						

Abbreviations:

mg/L = milligrams per liter

Qualifiers:

J = estimated result

UB = not detected due to blank contamination

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

April 10, 2025

Trey Singleton
Southern Company
241 Ralp McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

Dear Trey Singleton:

Enclosed are the analytical results for sample(s) received by the laboratory between February 26, 2025 and March 18, 2025. 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 National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - West Columbia

Revision 1: Sample ID updated for YAT-PZ-54D.

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

Sincerely,

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

Enclosures

cc: Geoffrey Gay, Arcadis-ATL
Laura Midkiff, Southern Company
Alex Simpson, Arcadis
Jessica Ware, Arcadis
Albert Zumbuhl, Arcadis

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

CERTIFICATIONS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

Pace Analytical Services National

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

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 West Columbia

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

REPORT OF LABORATORY ANALYSIS

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(704)875-9092

SAMPLE SUMMARY

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92781919001	**YAT-PZ-35**	Water	02/25/25 17:58	02/26/25 13:55
92781919002	**YAT-YGWC-50**	Water	02/26/25 15:20	02/27/25 13:40
92781919003	**YAT-YAMW-1**	Water	02/26/25 10:31	02/27/25 13:40
92781919004	**YAT-AMA-R6-FD-1**	Water	02/26/25 00:00	02/27/25 13:40
92781919005	**YAT-YGWC-36A**	Water	02/26/25 12:05	02/27/25 13:40
92781919006	**YAT-YGWC-49**	Water	02/26/25 09:35	02/27/25 13:40
92781919007	**YAT-YGWC-38**	Water	02/26/25 17:20	02/27/25 13:40
92781919008	**YAT-YGWC-41**	Water	02/26/25 17:32	02/27/25 13:40
92781919009	**YAT-YGWC-42**	Water	02/26/25 12:10	02/27/25 13:40
92781919010	**YAT-YAMW-2**	Water	02/26/25 14:38	02/27/25 13:40
92781919011	**YAT-YAMW-3**	Water	02/26/25 10:01	02/27/25 13:40
92781919012	**YAT-YAMW-4**	Water	02/26/25 15:52	02/27/25 13:40
92781919013	**YAT-AMA-R6-EB-1**	Water	02/26/25 12:25	02/27/25 13:40
92781919014	**YAT-AMA-R6-FB-1**	Water	02/26/25 10:45	02/27/25 13:40
92781919015	**YAT-AMA-R6-FD-2**	Water	02/26/25 00:00	02/27/25 13:40
92781919016	**YAT-YGWC-43**	Water	02/27/25 13:24	02/28/25 11:00
92781919017	**YAT-PZ-51**	Water	02/27/25 14:18	02/28/25 11:00
92781919018	**YAT-PZ-55**	Water	02/27/25 11:06	02/28/25 11:00
92781919019	**YAT-PZ-54D**	Water	02/27/25 13:00	02/28/25 11:00
92781919020	**YAT-YGWC-23S**	Water	02/27/25 16:10	02/28/25 11:00
92781919021	**YAT-YAMW-5**	Water	02/27/25 14:57	02/28/25 11:00
92781919022	**YAT-PZ-37**	Water	02/27/25 13:52	02/28/25 11:00
92781919023	**YAT-PZ-37D**	Water	02/27/25 12:31	02/28/25 11:00
92781919024	**YAT-PZ-52D**	Water	02/27/25 10:27	02/28/25 11:00
92781919025	**YAT-YGWC-24SB**	Water	03/17/25 14:45	03/18/25 11:53
92781919026	**YAT-AMA-R6-EB-1**	Water	03/17/25 11:35	03/18/25 11:53
92781919027	**YAT-AMA-R6-FB-1**	Water	03/17/25 15:15	03/18/25 11:53
92781919028	**YAT-AMA-R6-FD-1**	Water	03/17/25 00:00	03/18/25 11:53

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SAMPLE ANALYTE COUNT

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92781919001	**YAT-PZ-35**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BK1	16	PASI-WC
92781919002	**YAT-YGWC-50**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	CDM	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	16	PASI-WC
92781919003	**YAT-YAMW-1**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	CDM	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	16	PASI-WC
92781919004	**YAT-AMA-R6-FD-1**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	CDM	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	16	PASI-WC
92781919005	**YAT-YGWC-36A**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	CDM	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	16	PASI-WC
92781919006	**YAT-YGWC-49**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	CDM	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	16	PASI-WC
92781919007	**YAT-YGWC-38**	EPA 6020B	JPD	1	PAN

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SAMPLE ANALYTE COUNT

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	CDM	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	16	PASI-WC
92781919008	**YAT-YGWC-41**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	CDM	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	16	PASI-WC
92781919009	**YAT-YGWC-42**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	CDM	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	16	PASI-WC
92781919010	**YAT-YAMW-2**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	CDM	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	16	PASI-WC
92781919011	**YAT-YAMW-3**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	CDM	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	16	PASI-WC
92781919012	**YAT-YAMW-4**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	CDM	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	16	PASI-WC
92781919013	**YAT-AMA-R6-EB-1**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A

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SAMPLE ANALYTE COUNT

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	CDM	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	16	PASI-WC
92781919014	**YAT-AMA-R6-FB-1**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	CDM	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	16	PASI-WC
92781919015	**YAT-AMA-R6-FD-2**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	CDM	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	16	PASI-WC
92781919016	**YAT-YGWC-43**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	YEG	3	PASI-A
		SM 2540C-2015	CDM	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	16	PASI-WC
92781919017	**YAT-PZ-51**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	YEG	3	PASI-A
		SM 2540C-2015	CDM	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	16	PASI-WC
92781919018	**YAT-PZ-55**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	YEG	3	PASI-A
		SM 2540C-2015	CDM	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	16	PASI-WC
92781919019	**YAT-PZ-54D**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	YEG	3	PASI-A

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2540C-2015	CDM	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	16	PASI-WC
92781919020	**YAT-YGWC-23S**	EPA 6020B	LD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	YEG	3	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	16	PASI-WC
92781919021	**YAT-YAMW-5**	EPA 6020B	LD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	YEG	3	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	16	PASI-WC
92781919022	**YAT-PZ-37**	EPA 6020B	LD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	YEG	3	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	16	PASI-WC
92781919023	**YAT-PZ-37D**	EPA 6020B	LD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	YEG	3	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	16	PASI-WC
92781919024	**YAT-PZ-52D**	EPA 6020B	LD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	YEG	3	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		EPA 300.0 Rev 2.1 1993	JCM	3	PASI-A
		EPA 6020B	BK1	16	PASI-WC
92781919025	**YAT-YGWC-24SB**	EPA 6020B	UNP	1	PAN
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	YEG	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A

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SAMPLE ANALYTE COUNT

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6020B	BW	16	PASI-WC
		EPA 7470A	KAJ1	1	PASI-WC
92781919026	**YAT-AMA-R6-EB-1**	EPA 6020B	UNP	1	PAN
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BW	16	PASI-WC
		EPA 7470A	KAJ1	1	PASI-WC
92781919027	**YAT-AMA-R6-FB-1**	EPA 6020B	UNP	1	PAN
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BW	16	PASI-WC
		EPA 7470A	KAJ1	1	PASI-WC
92781919028	**YAT-AMA-R6-FD-1**	EPA 6020B	UNP	1	PAN
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BW	16	PASI-WC
		EPA 7470A	KAJ1	1	PASI-WC

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

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SUMMARY OF DETECTION

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92781919001	**YAT-PZ-35**					
EPA 6020B	Lithium	0.00438J	mg/L	0.0300	03/12/25 13:45	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	5.3	mg/L	5.0	03/04/25 13:44	
SM 2320B-2011	Alkalinity, Total as CaCO3	5.3	mg/L	5.0	03/04/25 13:44	
SM 2540C-2015	Total Dissolved Solids	373	mg/L	25.0	03/04/25 16:45	
EPA 300.0 Rev 2.1 1993	Chloride	4.2	mg/L	1.0	02/28/25 10:52	
EPA 300.0 Rev 2.1 1993	Fluoride	0.055J	mg/L	0.10	02/28/25 10:52	
EPA 300.0 Rev 2.1 1993	Sulfate	165	mg/L	4.0	02/28/25 13:50	
EPA 6020B	Barium	0.25	mg/L	0.0050	03/22/25 01:28	
EPA 6020B	Beryllium	0.0026	mg/L	0.00050	03/22/25 01:28	
EPA 6020B	Boron	0.25	mg/L	0.040	03/22/25 01:28	
EPA 6020B	Cadmium	0.00074	mg/L	0.00050	03/22/25 01:28	
EPA 6020B	Calcium	41.4	mg/L	10.0	03/24/25 16:31	
EPA 6020B	Chromium	0.0015J	mg/L	0.0050	03/22/25 01:28	
EPA 6020B	Lead	0.00039J	mg/L	0.0010	03/22/25 01:28	
EPA 6020B	Magnesium	21.3	mg/L	0.050	03/22/25 01:28	
EPA 6020B	Potassium	2.8	mg/L	0.50	03/22/25 01:28	
EPA 6020B	Selenium	0.0041J	mg/L	0.0050	03/22/25 01:28	
EPA 6020B	Sodium	17.4	mg/L	1.0	03/22/25 01:28	
92781919002	**YAT-YGWC-50**					
EPA 6020B	Lithium	0.00277J	mg/L	0.0300	03/12/25 13:49	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	33.2	mg/L	5.0	03/05/25 22:06	
SM 2320B-2011	Alkalinity, Total as CaCO3	33.2	mg/L	5.0	03/05/25 22:06	
SM 2540C-2015	Total Dissolved Solids	2040	mg/L	50.0	03/05/25 12:42	
EPA 300.0 Rev 2.1 1993	Chloride	9.7	mg/L	1.0	03/01/25 17:03	
EPA 300.0 Rev 2.1 1993	Fluoride	0.077J	mg/L	0.10	03/01/25 17:03	
EPA 300.0 Rev 2.1 1993	Sulfate	1040	mg/L	25.0	03/02/25 03:16	
EPA 6020B	Antimony	0.00062J	mg/L	0.0030	03/19/25 16:48	
EPA 6020B	Barium	0.017	mg/L	0.0050	03/19/25 16:48	
EPA 6020B	Beryllium	0.0030	mg/L	0.00050	03/19/25 16:48	
EPA 6020B	Boron	23.5	mg/L	4.0	03/20/25 10:32	M1
EPA 6020B	Cadmium	0.011	mg/L	0.00050	03/19/25 16:48	
EPA 6020B	Calcium	312	mg/L	20.0	03/21/25 15:57	M1
EPA 6020B	Cobalt	0.0044J	mg/L	0.0050	03/19/25 16:48	
EPA 6020B	Magnesium	129	mg/L	5.0	03/20/25 10:32	M1
EPA 6020B	Potassium	4.9	mg/L	0.50	03/19/25 16:48	
EPA 6020B	Sodium	25.7	mg/L	20.0	03/21/25 15:57	M1
EPA 6020B	Thallium	0.00015J	mg/L	0.0010	03/19/25 16:48	
92781919003	**YAT-YAMW-1**					
EPA 6020B	Lithium	0.0285J	mg/L	0.0300	03/12/25 13:52	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	23.7	mg/L	5.0	03/05/25 22:14	
SM 2320B-2011	Alkalinity, Total as CaCO3	23.7	mg/L	5.0	03/05/25 22:14	
SM 2540C-2015	Total Dissolved Solids	499	mg/L	25.0	03/05/25 12:42	
EPA 300.0 Rev 2.1 1993	Chloride	5.2	mg/L	1.0	03/01/25 17:48	
EPA 300.0 Rev 2.1 1993	Sulfate	239	mg/L	6.0	03/02/25 03:30	
EPA 6020B	Barium	0.083	mg/L	0.0050	03/19/25 17:51	
EPA 6020B	Boron	2.4	mg/L	0.40	03/20/25 12:21	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92781919003	**YAT-YAMW-1**					
EPA 6020B	Cadmium	0.00021J	mg/L	0.00050	03/19/25 17:51	
EPA 6020B	Calcium	50.7	mg/L	10.0	03/21/25 16:43	
EPA 6020B	Cobalt	0.0040J	mg/L	0.0050	03/19/25 17:51	
EPA 6020B	Magnesium	39.7	mg/L	0.50	03/20/25 12:21	
EPA 6020B	Potassium	9.1	mg/L	0.50	03/19/25 17:51	
EPA 6020B	Selenium	0.0071	mg/L	0.0050	03/19/25 17:51	
EPA 6020B	Sodium	25.5	mg/L	1.0	03/19/25 17:51	
92781919004	**YAT-AMA-R6-FD-1**					
EPA 6020B	Lithium	0.0252J	mg/L	0.0300	03/12/25 13:55	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	21.9	mg/L	5.0	03/05/25 22:20	
SM 2320B-2011	Alkalinity, Total as CaCO3	21.9	mg/L	5.0	03/05/25 22:20	
SM 2540C-2015	Total Dissolved Solids	518	mg/L	25.0	03/05/25 12:42	
EPA 300.0 Rev 2.1 1993	Chloride	5.3	mg/L	1.0	03/01/25 18:03	
EPA 300.0 Rev 2.1 1993	Sulfate	252	mg/L	6.0	03/02/25 03:45	M1
EPA 6020B	Barium	0.087	mg/L	0.0050	03/19/25 18:00	
EPA 6020B	Boron	2.6	mg/L	0.40	03/20/25 12:30	
EPA 6020B	Cadmium	0.00022J	mg/L	0.00050	03/19/25 18:00	
EPA 6020B	Calcium	53.0	mg/L	10.0	03/21/25 16:52	
EPA 6020B	Cobalt	0.0059	mg/L	0.0050	03/19/25 18:00	
EPA 6020B	Magnesium	41.4	mg/L	0.50	03/20/25 12:30	
EPA 6020B	Potassium	8.4	mg/L	0.50	03/19/25 18:00	
EPA 6020B	Selenium	0.0073	mg/L	0.0050	03/19/25 18:00	
EPA 6020B	Sodium	25.4	mg/L	1.0	03/19/25 18:00	
92781919005	**YAT-YGWC-36A**					
EPA 6020B	Lithium	0.00237J	mg/L	0.0300	03/12/25 18:05	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	5.8	mg/L	5.0	03/05/25 22:25	
SM 2320B-2011	Alkalinity, Total as CaCO3	5.8	mg/L	5.0	03/05/25 22:25	
SM 2540C-2015	Total Dissolved Solids	421	mg/L	25.0	03/05/25 12:42	
EPA 300.0 Rev 2.1 1993	Chloride	4.5	mg/L	1.0	03/01/25 18:47	
EPA 300.0 Rev 2.1 1993	Sulfate	199	mg/L	5.0	03/02/25 04:29	
EPA 6020B	Barium	0.073	mg/L	0.0050	03/19/25 18:09	
EPA 6020B	Beryllium	0.0030	mg/L	0.00050	03/19/25 18:09	
EPA 6020B	Boron	0.23J	mg/L	0.40	03/20/25 12:39	4g
EPA 6020B	Cadmium	0.00019J	mg/L	0.00050	03/19/25 18:09	
EPA 6020B	Calcium	47.4	mg/L	10.0	03/21/25 17:01	
EPA 6020B	Magnesium	22.7	mg/L	0.050	03/19/25 18:09	
EPA 6020B	Potassium	2.6	mg/L	0.50	03/19/25 18:09	
EPA 6020B	Selenium	0.0054	mg/L	0.0050	03/19/25 18:09	
EPA 6020B	Sodium	24.4	mg/L	10.0	03/20/25 12:39	
92781919006	**YAT-YGWC-49**					
EPA 6020B	Lithium	0.00330J	mg/L	0.0300	03/12/25 18:17	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	17.3	mg/L	5.0	03/05/25 22:29	
SM 2320B-2011	Alkalinity, Total as CaCO3	17.3	mg/L	5.0	03/05/25 22:29	
SM 2540C-2015	Total Dissolved Solids	150	mg/L	25.0	03/05/25 12:43	
EPA 300.0 Rev 2.1 1993	Chloride	3.7	mg/L	1.0	03/01/25 19:02	
EPA 300.0 Rev 2.1 1993	Sulfate	56.8	mg/L	1.0	03/01/25 19:02	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92781919006	**YAT-YGWC-49**					
EPA 6020B	Barium	0.055	mg/L	0.0050	03/19/25 18:36	
EPA 6020B	Boron	0.0087J	mg/L	0.040	03/19/25 18:36	
EPA 6020B	Calcium	10.9	mg/L	1.0	03/19/25 18:36	
EPA 6020B	Chromium	0.0021J	mg/L	0.0050	03/19/25 18:36	
EPA 6020B	Magnesium	7.3	mg/L	0.050	03/19/25 18:36	
EPA 6020B	Potassium	1.7	mg/L	0.50	03/19/25 18:36	
EPA 6020B	Selenium	0.0059	mg/L	0.0050	03/19/25 18:36	
EPA 6020B	Sodium	17.1	mg/L	1.0	03/19/25 18:36	
92781919007	**YAT-YGWC-38**					
EPA 6020B	Lithium	0.00621J	mg/L	0.0300	03/12/25 18:21	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	12.9	mg/L	5.0	03/05/25 22:34	
SM 2320B-2011	Alkalinity, Total as CaCO3	12.9	mg/L	5.0	03/05/25 22:34	
SM 2540C-2015	Total Dissolved Solids	347	mg/L	25.0	03/05/25 12:43	
EPA 300.0 Rev 2.1 1993	Chloride	3.9	mg/L	1.0	03/01/25 19:17	
EPA 300.0 Rev 2.1 1993	Sulfate	159	mg/L	4.0	03/02/25 04:44	
EPA 6020B	Barium	0.017	mg/L	0.0050	03/19/25 18:45	
EPA 6020B	Beryllium	0.0018	mg/L	0.00050	03/19/25 18:45	
EPA 6020B	Boron	3.1	mg/L	0.80	03/20/25 12:48	
EPA 6020B	Cadmium	0.00064	mg/L	0.00050	03/19/25 18:45	
EPA 6020B	Calcium	39.2	mg/L	10.0	03/21/25 17:10	
EPA 6020B	Magnesium	21.1	mg/L	0.050	03/19/25 18:45	
EPA 6020B	Potassium	3.5	mg/L	0.50	03/19/25 18:45	
EPA 6020B	Selenium	0.045	mg/L	0.0050	03/19/25 18:45	
EPA 6020B	Sodium	18.3	mg/L	1.0	03/19/25 18:45	
92781919008	**YAT-YGWC-41**					
EPA 6020B	Lithium	0.00235J	mg/L	0.0300	03/12/25 18:24	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	6.3	mg/L	5.0	03/05/25 22:40	
SM 2320B-2011	Alkalinity, Total as CaCO3	6.3	mg/L	5.0	03/05/25 22:40	
SM 2540C-2015	Total Dissolved Solids	215	mg/L	25.0	03/05/25 12:43	
EPA 300.0 Rev 2.1 1993	Chloride	3.6	mg/L	1.0	03/01/25 19:32	
EPA 300.0 Rev 2.1 1993	Sulfate	96.4	mg/L	2.0	03/02/25 04:59	
EPA 6020B	Barium	0.021	mg/L	0.0050	03/19/25 18:54	
EPA 6020B	Beryllium	0.0015	mg/L	0.00050	03/19/25 18:54	
EPA 6020B	Boron	3.6	mg/L	0.80	03/20/25 12:57	
EPA 6020B	Calcium	14.2	mg/L	1.0	03/19/25 18:54	
EPA 6020B	Magnesium	17.6	mg/L	0.050	03/19/25 18:54	
EPA 6020B	Potassium	2.3	mg/L	0.50	03/19/25 18:54	
EPA 6020B	Selenium	0.023	mg/L	0.0050	03/19/25 18:54	
EPA 6020B	Sodium	14.6	mg/L	1.0	03/19/25 18:54	
92781919009	**YAT-YGWC-42**					
EPA 6020B	Lithium	0.0556	mg/L	0.0300	03/12/25 18:27	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	34.1	mg/L	5.0	03/05/25 22:52	
SM 2320B-2011	Alkalinity, Total as CaCO3	34.1	mg/L	5.0	03/05/25 22:52	
SM 2540C-2015	Total Dissolved Solids	849	mg/L	25.0	03/05/25 12:43	
EPA 300.0 Rev 2.1 1993	Chloride	2.9	mg/L	1.0	03/01/25 19:47	
EPA 300.0 Rev 2.1 1993	Sulfate	432	mg/L	10.0	03/02/25 05:43	

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SUMMARY OF DETECTION

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92781919009	**YAT-YGWC-42**					
EPA 6020B	Barium	0.023	mg/L	0.0050	03/19/25 19:03	
EPA 6020B	Boron	12.9	mg/L	4.0	03/20/25 13:45	
EPA 6020B	Calcium	70.4	mg/L	10.0	03/21/25 17:19	
EPA 6020B	Cobalt	0.0020J	mg/L	0.0050	03/19/25 19:03	
EPA 6020B	Magnesium	73.8	mg/L	0.50	03/20/25 13:36	
EPA 6020B	Potassium	11.9	mg/L	0.50	03/19/25 19:03	
EPA 6020B	Selenium	0.036	mg/L	0.0050	03/19/25 19:03	
EPA 6020B	Sodium	31.7	mg/L	10.0	03/20/25 13:36	
92781919010	**YAT-YAMW-2**					
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	26.7	mg/L	5.0	03/05/25 22:59	
SM 2320B-2011	Alkalinity, Total as CaCO3	26.7	mg/L	5.0	03/05/25 22:59	
SM 2540C-2015	Total Dissolved Solids	47.0	mg/L	25.0	03/05/25 12:44	
EPA 300.0 Rev 2.1 1993	Chloride	2.1	mg/L	1.0	03/01/25 20:02	
EPA 300.0 Rev 2.1 1993	Sulfate	8.1	mg/L	1.0	03/01/25 20:02	
EPA 6020B	Barium	0.010	mg/L	0.0050	03/19/25 19:12	
EPA 6020B	Boron	0.052	mg/L	0.040	03/19/25 19:12	
EPA 6020B	Calcium	2.3	mg/L	1.0	03/19/25 19:12	
EPA 6020B	Magnesium	2.6	mg/L	0.050	03/19/25 19:12	
EPA 6020B	Potassium	1.4	mg/L	0.50	03/19/25 19:12	
EPA 6020B	Sodium	11.3	mg/L	1.0	03/19/25 19:12	
92781919011	**YAT-YAMW-3**					
EPA 6020B	Lithium	0.0573	mg/L	0.0300	03/12/25 18:41	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	54.3	mg/L	5.0	03/06/25 00:11	
SM 2320B-2011	Alkalinity, Total as CaCO3	54.3	mg/L	5.0	03/06/25 00:11	
SM 2540C-2015	Total Dissolved Solids	732	mg/L	50.0	03/05/25 12:45	
EPA 300.0 Rev 2.1 1993	Chloride	3.8	mg/L	1.0	03/01/25 20:47	
EPA 300.0 Rev 2.1 1993	Sulfate	357	mg/L	8.0	03/02/25 05:58	
EPA 6020B	Barium	0.034	mg/L	0.0050	03/19/25 19:21	
EPA 6020B	Boron	10.3	mg/L	4.0	03/20/25 14:03	
EPA 6020B	Cadmium	0.00022J	mg/L	0.00050	03/19/25 19:21	
EPA 6020B	Calcium	43.7	mg/L	10.0	03/21/25 17:46	
EPA 6020B	Cobalt	0.028	mg/L	0.0050	03/19/25 19:21	
EPA 6020B	Magnesium	68.0	mg/L	0.50	03/20/25 13:54	
EPA 6020B	Molybdenum	0.0046J	mg/L	0.010	03/19/25 19:21	
EPA 6020B	Potassium	12.8	mg/L	0.50	03/19/25 19:21	
EPA 6020B	Selenium	0.028	mg/L	0.0050	03/19/25 19:21	
EPA 6020B	Sodium	48.5	mg/L	10.0	03/20/25 13:54	
92781919012	**YAT-YAMW-4**					
EPA 6020B	Lithium	0.0404	mg/L	0.0300	03/12/25 18:44	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	58.6	mg/L	5.0	03/07/25 14:10	
SM 2320B-2011	Alkalinity, Total as CaCO3	58.6	mg/L	5.0	03/07/25 14:10	
SM 2540C-2015	Total Dissolved Solids	456	mg/L	25.0	03/05/25 12:45	
EPA 300.0 Rev 2.1 1993	Chloride	1.5	mg/L	1.0	03/01/25 21:02	
EPA 300.0 Rev 2.1 1993	Sulfate	213	mg/L	5.0	03/02/25 06:12	
EPA 6020B	Barium	0.0033J	mg/L	0.0050	03/19/25 19:30	
EPA 6020B	Boron	4.7	mg/L	0.80	03/20/25 14:12	

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SUMMARY OF DETECTION

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92781919012	**YAT-YAMW-4**					
EPA 6020B	Calcium	15.7	mg/L	1.0	03/19/25 19:30	
EPA 6020B	Magnesium	50.8	mg/L	1.0	03/20/25 14:12	
EPA 6020B	Molybdenum	0.0075J	mg/L	0.010	03/19/25 19:30	
EPA 6020B	Potassium	7.3	mg/L	0.50	03/19/25 19:30	
EPA 6020B	Selenium	0.013	mg/L	0.0050	03/19/25 19:30	
EPA 6020B	Sodium	25.0	mg/L	20.0	03/20/25 14:12	
92781919013	**YAT-AMA-R6-EB-1**					
EPA 6020B	Boron	0.017J	mg/L	0.040	03/19/25 19:39	
92781919014	**YAT-AMA-R6-FB-1**					
EPA 6020B	Boron	0.0097J	mg/L	0.040	03/19/25 19:49	
92781919015	**YAT-AMA-R6-FD-2**					
EPA 6020B	Lithium	0.00635J	mg/L	0.0300	03/12/25 18:54	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	8.5	mg/L	5.0	03/07/25 14:25	
SM 2320B-2011	Alkalinity, Total as CaCO3	8.5	mg/L	5.0	03/07/25 14:25	
SM 2540C-2015	Total Dissolved Solids	346	mg/L	25.0	03/05/25 12:45	
EPA 300.0 Rev 2.1 1993	Chloride	3.9	mg/L	1.0	03/01/25 21:47	
EPA 300.0 Rev 2.1 1993	Sulfate	162	mg/L	4.0	03/02/25 06:27	
EPA 6020B	Barium	0.017	mg/L	0.0050	03/19/25 19:58	
EPA 6020B	Beryllium	0.0018	mg/L	0.00050	03/19/25 19:58	
EPA 6020B	Boron	3.0	mg/L	0.80	03/20/25 14:21	
EPA 6020B	Cadmium	0.00064	mg/L	0.00050	03/19/25 19:58	
EPA 6020B	Calcium	39.4	mg/L	10.0	03/21/25 17:55	
EPA 6020B	Magnesium	20.5	mg/L	0.050	03/19/25 19:58	
EPA 6020B	Potassium	3.4	mg/L	0.50	03/19/25 19:58	
EPA 6020B	Selenium	0.044	mg/L	0.0050	03/19/25 19:58	
EPA 6020B	Sodium	17.6	mg/L	1.0	03/19/25 19:58	
92781919016	**YAT-YGWC-43**					
EPA 6020B	Lithium	0.0189J	mg/L	0.0300	03/12/25 18:57	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	32.9	mg/L	5.0	03/06/25 20:15	
SM 2320B-2011	Alkalinity, Total as CaCO3	32.9	mg/L	5.0	03/06/25 20:15	M1
SM 2540C-2015	Total Dissolved Solids	415	mg/L	25.0	03/05/25 12:24	
EPA 300.0 Rev 2.1 1993	Chloride	2.6	mg/L	1.0	03/02/25 01:31	
EPA 300.0 Rev 2.1 1993	Sulfate	187	mg/L	4.0	03/02/25 07:40	
EPA 6020B	Barium	0.031	mg/L	0.0050	03/19/25 20:25	
EPA 6020B	Beryllium	0.00057	mg/L	0.00050	03/19/25 20:25	
EPA 6020B	Boron	3.8	mg/L	0.80	03/20/25 14:30	
EPA 6020B	Calcium	17.1	mg/L	1.0	03/19/25 20:25	
EPA 6020B	Magnesium	35.5	mg/L	1.0	03/20/25 14:30	
EPA 6020B	Potassium	7.7	mg/L	0.50	03/19/25 20:25	
EPA 6020B	Sodium	20.6	mg/L	1.0	03/19/25 20:25	
92781919017	**YAT-PZ-51**					
EPA 6020B	Lithium	0.00602J	mg/L	0.0300	03/12/25 19:00	J
SM 2540C-2015	Total Dissolved Solids	619	mg/L	25.0	03/05/25 12:24	
EPA 300.0 Rev 2.1 1993	Chloride	4.1	mg/L	1.0	03/02/25 01:46	

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SUMMARY OF DETECTION

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92781919017	**YAT-PZ-51**					
EPA 300.0 Rev 2.1 1993	Fluoride	0.11	mg/L	0.10	03/02/25 01:46	
EPA 300.0 Rev 2.1 1993	Sulfate	314	mg/L	7.0	03/02/25 07:55	
EPA 6020B	Barium	0.015	mg/L	0.0050	03/19/25 20:34	
EPA 6020B	Beryllium	0.0039	mg/L	0.00050	03/19/25 20:34	
EPA 6020B	Boron	7.3	mg/L	4.0	03/20/25 14:49	
EPA 6020B	Cadmium	0.0018	mg/L	0.00050	03/19/25 20:34	
EPA 6020B	Calcium	61.1	mg/L	10.0	03/21/25 18:04	
EPA 6020B	Cobalt	0.0043J	mg/L	0.0050	03/19/25 20:34	
EPA 6020B	Magnesium	50.2	mg/L	0.50	03/20/25 14:39	
EPA 6020B	Potassium	4.3	mg/L	0.50	03/19/25 20:34	
EPA 6020B	Selenium	0.021	mg/L	0.0050	03/19/25 20:34	
EPA 6020B	Sodium	17.4	mg/L	1.0	03/19/25 20:34	
92781919018	**YAT-PZ-55**					
EPA 6020B	Lithium	0.00343J	mg/L	0.0300	03/12/25 19:03	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	17.0	mg/L	5.0	03/06/25 20:45	
SM 2320B-2011	Alkalinity, Total as CaCO3	17.0	mg/L	5.0	03/06/25 20:45	
SM 2540C-2015	Total Dissolved Solids	273	mg/L	25.0	03/05/25 12:24	
EPA 300.0 Rev 2.1 1993	Chloride	3.9	mg/L	1.0	03/02/25 02:01	
EPA 300.0 Rev 2.1 1993	Sulfate	128	mg/L	3.0	03/02/25 08:40	
EPA 6020B	Barium	0.044	mg/L	0.0050	03/19/25 20:43	
EPA 6020B	Boron	3.8	mg/L	0.80	03/20/25 14:58	
EPA 6020B	Cadmium	0.00071	mg/L	0.00050	03/19/25 20:43	
EPA 6020B	Calcium	21.2	mg/L	1.0	03/19/25 20:43	
EPA 6020B	Magnesium	22.3	mg/L	0.050	03/19/25 20:43	
EPA 6020B	Potassium	4.3	mg/L	0.50	03/19/25 20:43	
EPA 6020B	Selenium	0.022	mg/L	0.0050	03/19/25 20:43	
EPA 6020B	Sodium	17.5	mg/L	1.0	03/19/25 20:43	
92781919019	**YAT-PZ-54D**					
EPA 6020B	Lithium	0.0237J	mg/L	0.0300	03/12/25 19:07	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	300	mg/L	5.0	03/08/25 16:55	
SM 2320B-2011	Alkalinity, Total as CaCO3	300	mg/L	5.0	03/08/25 16:55	
SM 2540C-2015	Total Dissolved Solids	614	mg/L	50.0	03/05/25 12:24	
EPA 300.0 Rev 2.1 1993	Chloride	5.0	mg/L	1.0	03/02/25 02:46	
EPA 300.0 Rev 2.1 1993	Fluoride	0.10	mg/L	0.10	03/02/25 02:46	
EPA 300.0 Rev 2.1 1993	Sulfate	161	mg/L	4.0	03/02/25 08:54	
EPA 6020B	Arsenic	0.0021J	mg/L	0.0050	03/19/25 20:52	
EPA 6020B	Barium	0.040	mg/L	0.0050	03/19/25 20:52	
EPA 6020B	Boron	1.6	mg/L	0.40	03/20/25 15:25	
EPA 6020B	Calcium	62.4	mg/L	10.0	03/21/25 18:13	
EPA 6020B	Cobalt	0.0034J	mg/L	0.0050	03/19/25 20:52	
EPA 6020B	Magnesium	10.2	mg/L	0.050	03/19/25 20:52	
EPA 6020B	Molybdenum	0.017	mg/L	0.010	03/19/25 20:52	
EPA 6020B	Potassium	2.9	mg/L	0.50	03/19/25 20:52	
EPA 6020B	Sodium	131	mg/L	10.0	03/20/25 15:25	
92781919020	**YAT-YGWC-23S**					
EPA 6020B	Lithium	0.00324J	mg/L	0.0300	03/12/25 19:16	J

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SUMMARY OF DETECTION

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92781919020	**YAT-YGWC-23S**					
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	13.0	mg/L	5.0	03/06/25 21:10	
SM 2320B-2011	Alkalinity, Total as CaCO3	13.0	mg/L	5.0	03/06/25 21:10	
SM 2540C-2015	Total Dissolved Solids	218	mg/L	25.0	03/06/25 13:34	
EPA 300.0 Rev 2.1 1993	Chloride	2.8	mg/L	1.0	03/02/25 03:01	
EPA 300.0 Rev 2.1 1993	Sulfate	92.2	mg/L	2.0	03/02/25 09:09	
EPA 6020B	Barium	0.080	mg/L	0.0050	03/19/25 21:01	
EPA 6020B	Beryllium	0.00030J	mg/L	0.00050	03/19/25 21:01	
EPA 6020B	Boron	1.8	mg/L	0.40	03/20/25 15:34	
EPA 6020B	Calcium	16.2	mg/L	1.0	03/19/25 21:01	
EPA 6020B	Magnesium	13.9	mg/L	0.050	03/19/25 21:01	
EPA 6020B	Potassium	1.4	mg/L	0.50	03/19/25 21:01	
EPA 6020B	Selenium	0.044	mg/L	0.0050	03/19/25 21:01	
EPA 6020B	Sodium	20.1	mg/L	1.0	03/19/25 21:01	
92781919021	**YAT-YAMW-5**					
EPA 6020B	Lithium	0.0168J	mg/L	0.0300	03/12/25 19:19	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	14.7	mg/L	5.0	03/06/25 21:15	
SM 2320B-2011	Alkalinity, Total as CaCO3	14.7	mg/L	5.0	03/06/25 21:15	
SM 2540C-2015	Total Dissolved Solids	652	mg/L	25.0	03/06/25 13:34	
EPA 300.0 Rev 2.1 1993	Chloride	3.3	mg/L	1.0	03/01/25 13:15	
EPA 300.0 Rev 2.1 1993	Fluoride	0.050J	mg/L	0.10	03/01/25 13:15	M1
EPA 300.0 Rev 2.1 1993	Sulfate	321	mg/L	8.0	03/01/25 19:56	M1
EPA 6020B	Barium	0.038	mg/L	0.0050	03/19/25 21:10	
EPA 6020B	Beryllium	0.00016J	mg/L	0.00050	03/19/25 21:10	
EPA 6020B	Boron	7.4	mg/L	4.0	03/20/25 15:52	
EPA 6020B	Cadmium	0.00021J	mg/L	0.00050	03/19/25 21:10	
EPA 6020B	Calcium	54.3	mg/L	10.0	03/21/25 18:22	
EPA 6020B	Magnesium	52.5	mg/L	0.50	03/20/25 15:43	
EPA 6020B	Potassium	7.9	mg/L	0.50	03/19/25 21:10	
EPA 6020B	Selenium	0.056	mg/L	0.0050	03/19/25 21:10	
EPA 6020B	Sodium	37.2	mg/L	10.0	03/20/25 15:43	
92781919022	**YAT-PZ-37**					
EPA 6020B	Lithium	0.0172J	mg/L	0.0300	03/12/25 19:22	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	22.1	mg/L	5.0	03/06/25 21:20	
SM 2320B-2011	Alkalinity, Total as CaCO3	22.1	mg/L	5.0	03/06/25 21:20	
SM 2540C-2015	Total Dissolved Solids	868	mg/L	50.0	03/06/25 13:34	
EPA 300.0 Rev 2.1 1993	Chloride	5.0	mg/L	1.0	03/01/25 13:59	
EPA 300.0 Rev 2.1 1993	Fluoride	0.064J	mg/L	0.10	03/01/25 13:59	
EPA 300.0 Rev 2.1 1993	Sulfate	420	mg/L	10.0	03/01/25 20:39	
EPA 6020B	Antimony	0.0010J	mg/L	0.0030	03/25/25 19:58	
EPA 6020B	Barium	0.023	mg/L	0.0050	03/25/25 19:58	
EPA 6020B	Beryllium	0.0015	mg/L	0.00050	03/25/25 19:58	
EPA 6020B	Boron	9.6	mg/L	4.0	03/26/25 13:31	M1
EPA 6020B	Cadmium	0.00078	mg/L	0.00050	03/25/25 19:58	
EPA 6020B	Calcium	110	mg/L	100	03/26/25 13:31	M1
EPA 6020B	Cobalt	0.0019J	mg/L	0.0050	03/25/25 19:58	
EPA 6020B	Magnesium	63.1	mg/L	5.0	03/26/25 13:31	M1

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SUMMARY OF DETECTION

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92781919022	**YAT-PZ-37**					
EPA 6020B	Potassium	5.0	mg/L	0.50	03/25/25 19:58	
EPA 6020B	Selenium	0.11	mg/L	0.0050	03/25/25 19:58	
EPA 6020B	Sodium	25.6	mg/L	1.0	03/25/25 19:58	M1
92781919023	**YAT-PZ-37D**					
EPA 6020B	Lithium	0.0102J	mg/L	0.0300	03/12/25 19:25	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	116	mg/L	5.0	03/06/25 21:26	
SM 2320B-2011	Alkalinity, Total as CaCO3	116	mg/L	5.0	03/06/25 21:26	
SM 2540C-2015	Total Dissolved Solids	497	mg/L	25.0	03/06/25 13:35	
EPA 300.0 Rev 2.1 1993	Chloride	10.3	mg/L	1.0	03/01/25 14:14	
EPA 300.0 Rev 2.1 1993	Fluoride	0.20	mg/L	0.10	03/01/25 14:14	
EPA 300.0 Rev 2.1 1993	Sulfate	194	mg/L	5.0	03/01/25 21:23	
EPA 6020B	Barium	0.021	mg/L	0.0050	03/25/25 21:02	
EPA 6020B	Boron	0.72	mg/L	0.40	03/26/25 14:17	
EPA 6020B	Calcium	68.8	mg/L	10.0	03/26/25 14:17	
EPA 6020B	Magnesium	12.0	mg/L	0.050	03/25/25 21:02	
EPA 6020B	Molybdenum	0.0043J	mg/L	0.010	03/25/25 21:02	
EPA 6020B	Potassium	6.0	mg/L	0.50	03/25/25 21:02	
EPA 6020B	Sodium	66.9	mg/L	10.0	03/26/25 14:17	
92781919024	**YAT-PZ-52D**					
EPA 6020B	Lithium	0.0331	mg/L	0.0300	03/12/25 19:29	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	26.8	mg/L	5.0	03/06/25 21:34	
SM 2320B-2011	Alkalinity, Total as CaCO3	26.8	mg/L	5.0	03/06/25 21:34	
SM 2540C-2015	Total Dissolved Solids	580	mg/L	25.0	03/06/25 13:35	
EPA 300.0 Rev 2.1 1993	Chloride	1.4	mg/L	1.0	03/01/25 14:29	
EPA 300.0 Rev 2.1 1993	Fluoride	0.064J	mg/L	0.10	03/01/25 14:29	
EPA 300.0 Rev 2.1 1993	Sulfate	279	mg/L	7.0	03/01/25 21:38	
EPA 6020B	Antimony	0.016	mg/L	0.0030	03/25/25 21:11	
EPA 6020B	Barium	0.016	mg/L	0.0050	03/25/25 21:11	
EPA 6020B	Boron	2.2	mg/L	0.80	03/26/25 14:45	
EPA 6020B	Cadmium	0.00025J	mg/L	0.00050	03/25/25 21:11	
EPA 6020B	Calcium	24.8	mg/L	1.0	03/25/25 21:11	
EPA 6020B	Chromium	0.0013J	mg/L	0.0050	03/25/25 21:11	
EPA 6020B	Cobalt	0.0035J	mg/L	0.0050	03/25/25 21:11	
EPA 6020B	Lead	0.0010	mg/L	0.0010	03/25/25 21:11	
EPA 6020B	Magnesium	58.1	mg/L	1.0	03/26/25 14:45	
EPA 6020B	Molybdenum	0.0079J	mg/L	0.010	03/25/25 21:11	
EPA 6020B	Potassium	9.0	mg/L	0.50	03/25/25 21:11	
EPA 6020B	Selenium	0.0098	mg/L	0.0050	03/25/25 21:11	
EPA 6020B	Sodium	45.4	mg/L	20.0	03/26/25 14:45	
92781919025	**YAT-YGWC-24SB**					
EPA 6020B	Lithium	0.000839J	mg/L	0.0300	03/25/25 17:48	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	14.2	mg/L	5.0	03/20/25 19:40	
SM 2320B-2011	Alkalinity, Total as CaCO3	14.2	mg/L	5.0	03/20/25 19:40	
SM 2540C-2015	Total Dissolved Solids	70.0	mg/L	25.0	03/21/25 10:46	
EPA 300.0 Rev 2.1 1993	Chloride	8.6	mg/L	1.0	03/20/25 08:22	
EPA 6020B	Barium	0.027	mg/L	0.0050	04/07/25 12:32	

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SUMMARY OF DETECTION

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92781919025	**YAT-YGWC-24SB**					
EPA 6020B	Beryllium	0.00016J	mg/L	0.00050	04/07/25 12:32	
EPA 6020B	Calcium	2.9	mg/L	1.0	04/07/25 12:32	
EPA 6020B	Magnesium	1.6	mg/L	0.050	04/07/25 12:32	
EPA 6020B	Potassium	1.4	mg/L	0.50	04/07/25 12:32	
EPA 6020B	Sodium	10.4	mg/L	1.0	04/07/25 12:32	
92781919028	**YAT-AMA-R6-FD-1**					
EPA 6020B	Lithium	0.000944J	mg/L	0.0300	03/25/25 17:31	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	13.9	mg/L	5.0	03/20/25 19:52	
SM 2320B-2011	Alkalinity, Total as CaCO3	13.9	mg/L	5.0	03/20/25 19:52	
SM 2540C-2015	Total Dissolved Solids	85.0	mg/L	25.0	03/21/25 14:26	
EPA 300.0 Rev 2.1 1993	Chloride	8.6	mg/L	1.0	03/20/25 09:02	
EPA 6020B	Barium	0.027	mg/L	0.0050	04/07/25 12:59	
EPA 6020B	Calcium	2.8	mg/L	1.0	04/07/25 12:59	
EPA 6020B	Magnesium	1.6	mg/L	0.050	04/07/25 12:59	
EPA 6020B	Potassium	1.3	mg/L	0.50	04/07/25 12:59	
EPA 6020B	Sodium	10.1	mg/L	1.0	04/07/25 12:59	

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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

Sample: YAT-PZ-35 **Lab ID: 92781919001** Collected: 02/25/25 17:58 Received: 02/26/25 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00438J**	mg/L	0.0300	0.000600	1	03/12/25 08:51	03/12/25 13:45	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	03/01/25 17:55	03/03/25 13:04	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**5.3**	mg/L	5.0	5.0	1		03/04/25 13:44		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/04/25 13:44		
Alkalinity, Total as CaCO3	**5.3**	mg/L	5.0	5.0	1		03/04/25 13:44		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**373**	mg/L	25.0	25.0	1		03/04/25 16:45		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.2**	mg/L	1.0	0.60	1		02/28/25 10:52	16887-00-6	
Fluoride	**0.055J**	mg/L	0.10	0.050	1		02/28/25 10:52	16984-48-8	
Sulfate	**165**	mg/L	4.0	2.0	4		02/28/25 13:50	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/20/25 07:00	03/22/25 01:28	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/20/25 07:00	03/22/25 01:28	7440-38-2	
Barium	**0.25**	mg/L	0.0050	0.0012	1	03/20/25 07:00	03/22/25 01:28	7440-39-3	
Beryllium	**0.0026**	mg/L	0.00050	0.00015	1	03/20/25 07:00	03/22/25 01:28	7440-41-7	
Boron	**0.25**	mg/L	0.040	0.0062	1	03/20/25 07:00	03/22/25 01:28	7440-42-8	
Cadmium	**0.00074**	mg/L	0.00050	0.00012	1	03/20/25 07:00	03/22/25 01:28	7440-43-9	
Calcium	**41.4**	mg/L	10.0	1.0	10	03/20/25 07:00	03/24/25 16:31	7440-70-2	
Chromium	**0.0015J**	mg/L	0.0050	0.0012	1	03/20/25 07:00	03/22/25 01:28	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/20/25 07:00	03/22/25 01:28	7440-48-4	
Lead	**0.00039J**	mg/L	0.0010	0.00025	1	03/20/25 07:00	03/22/25 01:28	7439-92-1	
Magnesium	**21.3**	mg/L	0.050	0.010	1	03/20/25 07:00	03/22/25 01:28	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/20/25 07:00	03/22/25 01:28	7439-98-7	
Potassium	**2.8**	mg/L	0.50	0.10	1	03/20/25 07:00	03/22/25 01:28	7440-09-7	
Selenium	**0.0041J**	mg/L	0.0050	0.0012	1	03/20/25 07:00	03/22/25 01:28	7782-49-2	
Sodium	**17.4**	mg/L	1.0	0.15	1	03/20/25 07:00	03/22/25 01:28	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/20/25 07:00	03/22/25 01:28	7440-28-0	3g

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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

Sample: YAT-YGWC-50 **Lab ID: 92781919002** Collected: 02/26/25 15:20 Received: 02/27/25 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00277J**	mg/L	0.0300	0.000600	1	03/12/25 08:51	03/12/25 13:49	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	03/01/25 17:55	03/03/25 13:11	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**33.2**	mg/L	5.0	5.0	1		03/05/25 22:06		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/05/25 22:06		
Alkalinity, Total as CaCO3	**33.2**	mg/L	5.0	5.0	1		03/05/25 22:06		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**2040**	mg/L	50.0	50.0	1		03/05/25 12:42		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**9.7**	mg/L	1.0	0.60	1		03/01/25 17:03	16887-00-6	
Fluoride	**0.077J**	mg/L	0.10	0.050	1		03/01/25 17:03	16984-48-8	
Sulfate	**1040**	mg/L	25.0	12.5	25		03/02/25 03:16	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	**0.00062J**	mg/L	0.0030	0.00050	1	03/17/25 18:50	03/19/25 16:48	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 16:48	7440-38-2	
Barium	**0.017**	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 16:48	7440-39-3	
Beryllium	**0.0030**	mg/L	0.00050	0.00015	1	03/17/25 18:50	03/19/25 16:48	7440-41-7	
Boron	**23.5**	mg/L	4.0	0.62	100	03/17/25 18:50	03/20/25 10:32	7440-42-8	M1
Cadmium	**0.011**	mg/L	0.00050	0.00012	1	03/17/25 18:50	03/19/25 16:48	7440-43-9	
Calcium	**312**	mg/L	20.0	2.0	20	03/17/25 18:50	03/21/25 15:57	7440-70-2	M1
Chromium	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 16:48	7440-47-3	
Cobalt	**0.0044J**	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 16:48	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/17/25 18:50	03/19/25 16:48	7439-92-1	
Magnesium	**129**	mg/L	5.0	1.0	100	03/17/25 18:50	03/20/25 10:32	7439-95-4	M1
Molybdenum	ND	mg/L	0.010	0.0025	1	03/17/25 18:50	03/19/25 16:48	7439-98-7	
Potassium	**4.9**	mg/L	0.50	0.10	1	03/17/25 18:50	03/19/25 16:48	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 16:48	7782-49-2	
Sodium	**25.7**	mg/L	20.0	3.0	20	03/17/25 18:50	03/21/25 15:57	7440-23-5	M1
Thallium	**0.00015J**	mg/L	0.0010	0.00015	1	03/17/25 18:50	03/19/25 16:48	7440-28-0	

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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

Sample: YAT-YAMW-1 **Lab ID: 92781919003** Collected: 02/26/25 10:31 Received: 02/27/25 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.0285J**	mg/L	0.0300	0.000600	1	03/12/25 08:51	03/12/25 13:52	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	03/01/25 17:55	03/03/25 13:13	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**23.7**	mg/L	5.0	5.0	1		03/05/25 22:14		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/05/25 22:14		
Alkalinity, Total as CaCO3	**23.7**	mg/L	5.0	5.0	1		03/05/25 22:14		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**499**	mg/L	25.0	25.0	1		03/05/25 12:42		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.2**	mg/L	1.0	0.60	1		03/01/25 17:48	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/01/25 17:48	16984-48-8	
Sulfate	**239**	mg/L	6.0	3.0	6		03/02/25 03:30	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/17/25 18:50	03/19/25 17:51	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 17:51	7440-38-2	
Barium	**0.083**	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 17:51	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/17/25 18:50	03/19/25 17:51	7440-41-7	
Boron	**2.4**	mg/L	0.40	0.062	10	03/17/25 18:50	03/20/25 12:21	7440-42-8	
Cadmium	**0.00021J**	mg/L	0.00050	0.00012	1	03/17/25 18:50	03/19/25 17:51	7440-43-9	
Calcium	**50.7**	mg/L	10.0	1.0	10	03/17/25 18:50	03/21/25 16:43	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 17:51	7440-47-3	
Cobalt	**0.0040J**	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 17:51	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/17/25 18:50	03/19/25 17:51	7439-92-1	
Magnesium	**39.7**	mg/L	0.50	0.10	10	03/17/25 18:50	03/20/25 12:21	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/17/25 18:50	03/19/25 17:51	7439-98-7	
Potassium	**9.1**	mg/L	0.50	0.10	1	03/17/25 18:50	03/19/25 17:51	7440-09-7	
Selenium	**0.0071**	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 17:51	7782-49-2	
Sodium	**25.5**	mg/L	1.0	0.15	1	03/17/25 18:50	03/19/25 17:51	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/17/25 18:50	03/19/25 17:51	7440-28-0	

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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

Sample: YAT-AMA-R6-FD-1 **Lab ID: 92781919004** Collected: 02/26/25 00:00 Received: 02/27/25 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.0252J**	mg/L	0.0300	0.000600	1	03/12/25 08:51	03/12/25 13:55	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	03/01/25 17:55	03/03/25 13:15	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**21.9**	mg/L	5.0	5.0	1		03/05/25 22:20		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/05/25 22:20		
Alkalinity, Total as CaCO3	**21.9**	mg/L	5.0	5.0	1		03/05/25 22:20		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**518**	mg/L	25.0	25.0	1		03/05/25 12:42		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.3**	mg/L	1.0	0.60	1		03/01/25 18:03	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/01/25 18:03	16984-48-8	
Sulfate	**252**	mg/L	6.0	3.0	6		03/02/25 03:45	14808-79-8	M1
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/17/25 18:50	03/19/25 18:00	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 18:00	7440-38-2	
Barium	**0.087**	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 18:00	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/17/25 18:50	03/19/25 18:00	7440-41-7	
Boron	**2.6**	mg/L	0.40	0.062	10	03/17/25 18:50	03/20/25 12:30	7440-42-8	
Cadmium	**0.00022J**	mg/L	0.00050	0.00012	1	03/17/25 18:50	03/19/25 18:00	7440-43-9	
Calcium	**53.0**	mg/L	10.0	1.0	10	03/17/25 18:50	03/21/25 16:52	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 18:00	7440-47-3	
Cobalt	**0.0059**	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 18:00	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/17/25 18:50	03/19/25 18:00	7439-92-1	
Magnesium	**41.4**	mg/L	0.50	0.10	10	03/17/25 18:50	03/20/25 12:30	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/17/25 18:50	03/19/25 18:00	7439-98-7	
Potassium	**8.4**	mg/L	0.50	0.10	1	03/17/25 18:50	03/19/25 18:00	7440-09-7	
Selenium	**0.0073**	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 18:00	7782-49-2	
Sodium	**25.4**	mg/L	1.0	0.15	1	03/17/25 18:50	03/19/25 18:00	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/17/25 18:50	03/19/25 18:00	7440-28-0	

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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

Sample: YAT-YGWC-36A **Lab ID: 92781919005** Collected: 02/26/25 12:05 Received: 02/27/25 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00237J**	mg/L	0.0300	0.000600	1	03/12/25 14:34	03/12/25 18:05	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	03/01/25 17:55	03/03/25 13:17	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**5.8**	mg/L	5.0	5.0	1		03/05/25 22:25		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/05/25 22:25		
Alkalinity, Total as CaCO3	**5.8**	mg/L	5.0	5.0	1		03/05/25 22:25		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**421**	mg/L	25.0	25.0	1		03/05/25 12:42		
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		03/01/25 18:47	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/01/25 18:47	16984-48-8	
Sulfate	**199**	mg/L	5.0	2.5	5		03/02/25 04:29	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/17/25 18:50	03/19/25 18:09	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 18:09	7440-38-2	
Barium	**0.073**	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 18:09	7440-39-3	
Beryllium	**0.0030**	mg/L	0.00050	0.00015	1	03/17/25 18:50	03/19/25 18:09	7440-41-7	
Boron	**0.23J**	mg/L	0.40	0.062	10	03/17/25 18:50	03/20/25 12:39	7440-42-8	4g
Cadmium	**0.00019J**	mg/L	0.00050	0.00012	1	03/17/25 18:50	03/19/25 18:09	7440-43-9	
Calcium	**47.4**	mg/L	10.0	1.0	10	03/17/25 18:50	03/21/25 17:01	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 18:09	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 18:09	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/17/25 18:50	03/19/25 18:09	7439-92-1	
Magnesium	**22.7**	mg/L	0.050	0.010	1	03/17/25 18:50	03/19/25 18:09	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/17/25 18:50	03/19/25 18:09	7439-98-7	
Potassium	**2.6**	mg/L	0.50	0.10	1	03/17/25 18:50	03/19/25 18:09	7440-09-7	
Selenium	**0.0054**	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 18:09	7782-49-2	
Sodium	**24.4**	mg/L	10.0	1.5	10	03/17/25 18:50	03/20/25 12:39	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/17/25 18:50	03/19/25 18:09	7440-28-0	

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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

Sample: YAT-YGWC-49 **Lab ID: 92781919006** Collected: 02/26/25 09:35 Received: 02/27/25 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00330J**	mg/L	0.0300	0.000600	1	03/12/25 14:34	03/12/25 18:17	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	03/01/25 17:55	03/03/25 13:19	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**17.3**	mg/L	5.0	5.0	1		03/05/25 22:29		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/05/25 22:29		
Alkalinity, Total as CaCO3	**17.3**	mg/L	5.0	5.0	1		03/05/25 22:29		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**150**	mg/L	25.0	25.0	1		03/05/25 12:43		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.7**	mg/L	1.0	0.60	1		03/01/25 19:02	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/01/25 19:02	16984-48-8	
Sulfate	**56.8**	mg/L	1.0	0.50	1		03/01/25 19:02	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/17/25 18:50	03/19/25 18:36	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 18:36	7440-38-2	
Barium	**0.055**	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 18:36	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/17/25 18:50	03/19/25 18:36	7440-41-7	
Boron	**0.0087J**	mg/L	0.040	0.0062	1	03/17/25 18:50	03/19/25 18:36	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/17/25 18:50	03/19/25 18:36	7440-43-9	
Calcium	**10.9**	mg/L	1.0	0.10	1	03/17/25 18:50	03/19/25 18:36	7440-70-2	
Chromium	**0.0021J**	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 18:36	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 18:36	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/17/25 18:50	03/19/25 18:36	7439-92-1	
Magnesium	**7.3**	mg/L	0.050	0.010	1	03/17/25 18:50	03/19/25 18:36	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/17/25 18:50	03/19/25 18:36	7439-98-7	
Potassium	**1.7**	mg/L	0.50	0.10	1	03/17/25 18:50	03/19/25 18:36	7440-09-7	
Selenium	**0.0059**	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 18:36	7782-49-2	
Sodium	**17.1**	mg/L	1.0	0.15	1	03/17/25 18:50	03/19/25 18:36	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/17/25 18:50	03/19/25 18:36	7440-28-0	

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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

Sample: YAT-YGWC-38 **Lab ID: 92781919007** Collected: 02/26/25 17:20 Received: 02/27/25 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00621J**	mg/L	0.0300	0.000600	1	03/12/25 14:34	03/12/25 18:21	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	03/01/25 17:55	03/03/25 13:25	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**12.9**	mg/L	5.0	5.0	1		03/05/25 22:34		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/05/25 22:34		
Alkalinity, Total as CaCO3	**12.9**	mg/L	5.0	5.0	1		03/05/25 22:34		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**347**	mg/L	25.0	25.0	1		03/05/25 12:43		
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		03/01/25 19:17	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/01/25 19:17	16984-48-8	
Sulfate	**159**	mg/L	4.0	2.0	4		03/02/25 04:44	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/17/25 18:50	03/19/25 18:45	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 18:45	7440-38-2	
Barium	**0.017**	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 18:45	7440-39-3	
Beryllium	**0.0018**	mg/L	0.00050	0.00015	1	03/17/25 18:50	03/19/25 18:45	7440-41-7	
Boron	**3.1**	mg/L	0.80	0.12	20	03/17/25 18:50	03/20/25 12:48	7440-42-8	
Cadmium	**0.00064**	mg/L	0.00050	0.00012	1	03/17/25 18:50	03/19/25 18:45	7440-43-9	
Calcium	**39.2**	mg/L	10.0	1.0	10	03/17/25 18:50	03/21/25 17:10	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 18:45	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 18:45	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/17/25 18:50	03/19/25 18:45	7439-92-1	
Magnesium	**21.1**	mg/L	0.050	0.010	1	03/17/25 18:50	03/19/25 18:45	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/17/25 18:50	03/19/25 18:45	7439-98-7	
Potassium	**3.5**	mg/L	0.50	0.10	1	03/17/25 18:50	03/19/25 18:45	7440-09-7	
Selenium	**0.045**	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 18:45	7782-49-2	
Sodium	**18.3**	mg/L	1.0	0.15	1	03/17/25 18:50	03/19/25 18:45	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/17/25 18:50	03/19/25 18:45	7440-28-0	

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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

Sample: YAT-YGWC-41 **Lab ID: 92781919008** Collected: 02/26/25 17:32 Received: 02/27/25 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00235J**	mg/L	0.0300	0.000600	1	03/12/25 14:34	03/12/25 18:24	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	03/01/25 17:55	03/03/25 13:27	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**6.3**	mg/L	5.0	5.0	1		03/05/25 22:40		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/05/25 22:40		
Alkalinity, Total as CaCO3	**6.3**	mg/L	5.0	5.0	1		03/05/25 22:40		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**215**	mg/L	25.0	25.0	1		03/05/25 12:43		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.6**	mg/L	1.0	0.60	1		03/01/25 19:32	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/01/25 19:32	16984-48-8	
Sulfate	**96.4**	mg/L	2.0	1.0	2		03/02/25 04:59	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/17/25 18:50	03/19/25 18:54	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 18:54	7440-38-2	
Barium	**0.021**	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 18:54	7440-39-3	
Beryllium	**0.0015**	mg/L	0.00050	0.00015	1	03/17/25 18:50	03/19/25 18:54	7440-41-7	
Boron	**3.6**	mg/L	0.80	0.12	20	03/17/25 18:50	03/20/25 12:57	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/17/25 18:50	03/19/25 18:54	7440-43-9	
Calcium	**14.2**	mg/L	1.0	0.10	1	03/17/25 18:50	03/19/25 18:54	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 18:54	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 18:54	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/17/25 18:50	03/19/25 18:54	7439-92-1	
Magnesium	**17.6**	mg/L	0.050	0.010	1	03/17/25 18:50	03/19/25 18:54	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/17/25 18:50	03/19/25 18:54	7439-98-7	
Potassium	**2.3**	mg/L	0.50	0.10	1	03/17/25 18:50	03/19/25 18:54	7440-09-7	
Selenium	**0.023**	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 18:54	7782-49-2	
Sodium	**14.6**	mg/L	1.0	0.15	1	03/17/25 18:50	03/19/25 18:54	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/17/25 18:50	03/19/25 18:54	7440-28-0	

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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

Sample: YAT-YGWC-42 **Lab ID: 92781919009** Collected: 02/26/25 12:10 Received: 02/27/25 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.0556**	mg/L	0.0300	0.000600	1	03/12/25 14:34	03/12/25 18:27	7439-93-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	03/01/25 17:55	03/03/25 13:29	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**34.1**	mg/L	5.0	5.0	1		03/05/25 22:52		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/05/25 22:52		
Alkalinity, Total as CaCO3	**34.1**	mg/L	5.0	5.0	1		03/05/25 22:52		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**849**	mg/L	25.0	25.0	1		03/05/25 12:43		
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		03/01/25 19:47	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/01/25 19:47	16984-48-8	
Sulfate	**432**	mg/L	10.0	5.0	10		03/02/25 05:43	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/17/25 18:50	03/19/25 19:03	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 19:03	7440-38-2	
Barium	**0.023**	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 19:03	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/17/25 18:50	03/19/25 19:03	7440-41-7	
Boron	**12.9**	mg/L	4.0	0.62	100	03/17/25 18:50	03/20/25 13:45	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/17/25 18:50	03/19/25 19:03	7440-43-9	
Calcium	**70.4**	mg/L	10.0	1.0	10	03/17/25 18:50	03/21/25 17:19	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 19:03	7440-47-3	
Cobalt	**0.0020J**	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 19:03	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/17/25 18:50	03/19/25 19:03	7439-92-1	
Magnesium	**73.8**	mg/L	0.50	0.10	10	03/17/25 18:50	03/20/25 13:36	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/17/25 18:50	03/19/25 19:03	7439-98-7	
Potassium	**11.9**	mg/L	0.50	0.10	1	03/17/25 18:50	03/19/25 19:03	7440-09-7	
Selenium	**0.036**	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 19:03	7782-49-2	
Sodium	**31.7**	mg/L	10.0	1.5	10	03/17/25 18:50	03/20/25 13:36	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/17/25 18:50	03/19/25 19:03	7440-28-0	

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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

Sample: YAT-YAMW-2 **Lab ID: 92781919010** Collected: 02/26/25 14:38 Received: 02/27/25 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	ND	mg/L	0.0300	0.000600	1	03/12/25 14:34	03/12/25 18:38	7439-93-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	03/01/25 17:55	03/03/25 13:31	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**26.7**	mg/L	5.0	5.0	1		03/05/25 22:59		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/05/25 22:59		
Alkalinity, Total as CaCO3	**26.7**	mg/L	5.0	5.0	1		03/05/25 22:59		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**47.0**	mg/L	25.0	25.0	1		03/05/25 12:44		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.1**	mg/L	1.0	0.60	1		03/01/25 20:02	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/01/25 20:02	16984-48-8	
Sulfate	**8.1**	mg/L	1.0	0.50	1		03/01/25 20:02	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/17/25 18:50	03/19/25 19:12	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 19:12	7440-38-2	
Barium	**0.010**	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 19:12	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/17/25 18:50	03/19/25 19:12	7440-41-7	
Boron	**0.052**	mg/L	0.040	0.0062	1	03/17/25 18:50	03/19/25 19:12	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/17/25 18:50	03/19/25 19:12	7440-43-9	
Calcium	**2.3**	mg/L	1.0	0.10	1	03/17/25 18:50	03/19/25 19:12	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 19:12	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 19:12	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/17/25 18:50	03/19/25 19:12	7439-92-1	
Magnesium	**2.6**	mg/L	0.050	0.010	1	03/17/25 18:50	03/19/25 19:12	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/17/25 18:50	03/19/25 19:12	7439-98-7	
Potassium	**1.4**	mg/L	0.50	0.10	1	03/17/25 18:50	03/19/25 19:12	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 19:12	7782-49-2	
Sodium	**11.3**	mg/L	1.0	0.15	1	03/17/25 18:50	03/19/25 19:12	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/17/25 18:50	03/19/25 19:12	7440-28-0	

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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

Sample: YAT-YAMW-3 **Lab ID: 92781919011** Collected: 02/26/25 10:01 Received: 02/27/25 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.0573**	mg/L	0.0300	0.000600	1	03/12/25 14:34	03/12/25 18:41	7439-93-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	03/01/25 17:55	03/03/25 13:33	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**54.3**	mg/L	5.0	5.0	1		03/06/25 00:11		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/06/25 00:11		
Alkalinity, Total as CaCO3	**54.3**	mg/L	5.0	5.0	1		03/06/25 00:11		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**732**	mg/L	50.0	50.0	1		03/05/25 12:45		
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		03/01/25 20:47	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/01/25 20:47	16984-48-8	
Sulfate	**357**	mg/L	8.0	4.0	8		03/02/25 05:58	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/17/25 18:50	03/19/25 19:21	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 19:21	7440-38-2	
Barium	**0.034**	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 19:21	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/17/25 18:50	03/19/25 19:21	7440-41-7	
Boron	**10.3**	mg/L	4.0	0.62	100	03/17/25 18:50	03/20/25 14:03	7440-42-8	
Cadmium	**0.00022J**	mg/L	0.00050	0.00012	1	03/17/25 18:50	03/19/25 19:21	7440-43-9	
Calcium	**43.7**	mg/L	10.0	1.0	10	03/17/25 18:50	03/21/25 17:46	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 19:21	7440-47-3	
Cobalt	**0.028**	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 19:21	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/17/25 18:50	03/19/25 19:21	7439-92-1	
Magnesium	**68.0**	mg/L	0.50	0.10	10	03/17/25 18:50	03/20/25 13:54	7439-95-4	
Molybdenum	**0.0046J**	mg/L	0.010	0.0025	1	03/17/25 18:50	03/19/25 19:21	7439-98-7	
Potassium	**12.8**	mg/L	0.50	0.10	1	03/17/25 18:50	03/19/25 19:21	7440-09-7	
Selenium	**0.028**	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 19:21	7782-49-2	
Sodium	**48.5**	mg/L	10.0	1.5	10	03/17/25 18:50	03/20/25 13:54	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/17/25 18:50	03/19/25 19:21	7440-28-0	

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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

Sample: YAT-YAMW-4 **Lab ID: 92781919012** Collected: 02/26/25 15:52 Received: 02/27/25 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.0404**	mg/L	0.0300	0.000600	1	03/12/25 14:34	03/12/25 18:44	7439-93-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	03/01/25 17:55	03/03/25 13:35	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**58.6**	mg/L	5.0	5.0	1		03/07/25 14:10		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/07/25 14:10		
Alkalinity, Total as CaCO3	**58.6**	mg/L	5.0	5.0	1		03/07/25 14:10		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**456**	mg/L	25.0	25.0	1		03/05/25 12:45		
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		03/01/25 21:02	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/01/25 21:02	16984-48-8	
Sulfate	**213**	mg/L	5.0	2.5	5		03/02/25 06:12	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/17/25 18:50	03/19/25 19:30	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 19:30	7440-38-2	
Barium	**0.0033J**	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 19:30	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/17/25 18:50	03/19/25 19:30	7440-41-7	
Boron	**4.7**	mg/L	0.80	0.12	20	03/17/25 18:50	03/20/25 14:12	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/17/25 18:50	03/19/25 19:30	7440-43-9	
Calcium	**15.7**	mg/L	1.0	0.10	1	03/17/25 18:50	03/19/25 19:30	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 19:30	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 19:30	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/17/25 18:50	03/19/25 19:30	7439-92-1	
Magnesium	**50.8**	mg/L	1.0	0.20	20	03/17/25 18:50	03/20/25 14:12	7439-95-4	
Molybdenum	**0.0075J**	mg/L	0.010	0.0025	1	03/17/25 18:50	03/19/25 19:30	7439-98-7	
Potassium	**7.3**	mg/L	0.50	0.10	1	03/17/25 18:50	03/19/25 19:30	7440-09-7	
Selenium	**0.013**	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 19:30	7782-49-2	
Sodium	**25.0**	mg/L	20.0	3.0	20	03/17/25 18:50	03/20/25 14:12	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/17/25 18:50	03/19/25 19:30	7440-28-0	

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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

Sample: YAT-AMA-R6-EB-1 **Lab ID: 92781919013** Collected: 02/26/25 12:25 Received: 02/27/25 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	ND	mg/L	0.0300	0.000600	1	03/12/25 14:34	03/12/25 18:47	7439-93-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	03/01/25 17:55	03/03/25 13:37	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/07/25 14:17		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/07/25 14:17		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		03/07/25 14:17		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		03/05/25 12:45		
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		03/01/25 12:19	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/01/25 12:19	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/01/25 12:19	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/17/25 18:50	03/19/25 19:39	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 19:39	7440-38-2	
Barium	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 19:39	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/17/25 18:50	03/19/25 19:39	7440-41-7	
Boron	**0.017J**	mg/L	0.040	0.0062	1	03/17/25 18:50	03/19/25 19:39	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/17/25 18:50	03/19/25 19:39	7440-43-9	
Calcium	ND	mg/L	1.0	0.10	1	03/17/25 18:50	03/19/25 19:39	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 19:39	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 19:39	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/17/25 18:50	03/19/25 19:39	7439-92-1	
Magnesium	ND	mg/L	0.050	0.010	1	03/17/25 18:50	03/19/25 19:39	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/17/25 18:50	03/19/25 19:39	7439-98-7	
Potassium	ND	mg/L	0.50	0.10	1	03/17/25 18:50	03/19/25 19:39	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 19:39	7782-49-2	
Sodium	ND	mg/L	1.0	0.15	1	03/17/25 18:50	03/19/25 19:39	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/17/25 18:50	03/19/25 19:39	7440-28-0	

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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

Sample: YAT-AMA-R6-FB-1 **Lab ID: 92781919014** Collected: 02/26/25 10:45 Received: 02/27/25 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	ND	mg/L	0.0300	0.000600	1	03/12/25 14:34	03/12/25 18:51	7439-93-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	03/01/25 17:55	03/03/25 13:39	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/07/25 14:21		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/07/25 14:21		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		03/07/25 14:21		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		03/05/25 12:45		
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		03/01/25 12:34	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/01/25 12:34	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/01/25 12:34	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/17/25 18:50	03/19/25 19:49	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 19:49	7440-38-2	
Barium	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 19:49	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/17/25 18:50	03/19/25 19:49	7440-41-7	
Boron	**0.0097J**	mg/L	0.040	0.0062	1	03/17/25 18:50	03/19/25 19:49	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/17/25 18:50	03/19/25 19:49	7440-43-9	
Calcium	ND	mg/L	1.0	0.10	1	03/17/25 18:50	03/19/25 19:49	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 19:49	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 19:49	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/17/25 18:50	03/19/25 19:49	7439-92-1	
Magnesium	ND	mg/L	0.050	0.010	1	03/17/25 18:50	03/19/25 19:49	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/17/25 18:50	03/19/25 19:49	7439-98-7	
Potassium	ND	mg/L	0.50	0.10	1	03/17/25 18:50	03/19/25 19:49	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 19:49	7782-49-2	
Sodium	ND	mg/L	1.0	0.15	1	03/17/25 18:50	03/19/25 19:49	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/17/25 18:50	03/19/25 19:49	7440-28-0	

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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

Sample: YAT-AMA-R6-FD-2 **Lab ID: 92781919015** Collected: 02/26/25 00:00 Received: 02/27/25 13:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00635J**	mg/L	0.0300	0.000600	1	03/12/25 14:34	03/12/25 18:54	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	03/01/25 17:55	03/03/25 13:41	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**8.5**	mg/L	5.0	5.0	1		03/07/25 14:25		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/07/25 14:25		
Alkalinity, Total as CaCO3	**8.5**	mg/L	5.0	5.0	1		03/07/25 14:25		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**346**	mg/L	25.0	25.0	1		03/05/25 12:45		
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		03/01/25 21:47	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/01/25 21:47	16984-48-8	
Sulfate	**162**	mg/L	4.0	2.0	4		03/02/25 06:27	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/17/25 18:50	03/19/25 19:58	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 19:58	7440-38-2	
Barium	**0.017**	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 19:58	7440-39-3	
Beryllium	**0.0018**	mg/L	0.00050	0.00015	1	03/17/25 18:50	03/19/25 19:58	7440-41-7	
Boron	**3.0**	mg/L	0.80	0.12	20	03/17/25 18:50	03/20/25 14:21	7440-42-8	
Cadmium	**0.00064**	mg/L	0.00050	0.00012	1	03/17/25 18:50	03/19/25 19:58	7440-43-9	
Calcium	**39.4**	mg/L	10.0	1.0	10	03/17/25 18:50	03/21/25 17:55	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 19:58	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 19:58	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/17/25 18:50	03/19/25 19:58	7439-92-1	
Magnesium	**20.5**	mg/L	0.050	0.010	1	03/17/25 18:50	03/19/25 19:58	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/17/25 18:50	03/19/25 19:58	7439-98-7	
Potassium	**3.4**	mg/L	0.50	0.10	1	03/17/25 18:50	03/19/25 19:58	7440-09-7	
Selenium	**0.044**	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 19:58	7782-49-2	
Sodium	**17.6**	mg/L	1.0	0.15	1	03/17/25 18:50	03/19/25 19:58	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/17/25 18:50	03/19/25 19:58	7440-28-0	

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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

Sample: YAT-YGWC-43 **Lab ID: 92781919016** Collected: 02/27/25 13:24 Received: 02/28/25 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.0189J**	mg/L	0.0300	0.000600	1	03/12/25 14:34	03/12/25 18:57	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	03/01/25 17:55	03/03/25 13:44	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**32.9**	mg/L	5.0	5.0	1		03/06/25 20:15		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/06/25 20:15		
Alkalinity, Total as CaCO3	**32.9**	mg/L	5.0	5.0	1		03/06/25 20:15		M1
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**415**	mg/L	25.0	25.0	1		03/05/25 12:24		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.6**	mg/L	1.0	0.60	1		03/02/25 01:31	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/02/25 01:31	16984-48-8	
Sulfate	**187**	mg/L	4.0	2.0	4		03/02/25 07:40	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/17/25 18:50	03/19/25 20:25	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 20:25	7440-38-2	
Barium	**0.031**	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 20:25	7440-39-3	
Beryllium	**0.00057**	mg/L	0.00050	0.00015	1	03/17/25 18:50	03/19/25 20:25	7440-41-7	
Boron	**3.8**	mg/L	0.80	0.12	20	03/17/25 18:50	03/20/25 14:30	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/17/25 18:50	03/19/25 20:25	7440-43-9	
Calcium	**17.1**	mg/L	1.0	0.10	1	03/17/25 18:50	03/19/25 20:25	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 20:25	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 20:25	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/17/25 18:50	03/19/25 20:25	7439-92-1	
Magnesium	**35.5**	mg/L	1.0	0.20	20	03/17/25 18:50	03/20/25 14:30	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/17/25 18:50	03/19/25 20:25	7439-98-7	
Potassium	**7.7**	mg/L	0.50	0.10	1	03/17/25 18:50	03/19/25 20:25	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 20:25	7782-49-2	
Sodium	**20.6**	mg/L	1.0	0.15	1	03/17/25 18:50	03/19/25 20:25	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/17/25 18:50	03/19/25 20:25	7440-28-0	

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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

Sample: YAT-PZ-51 **Lab ID: 92781919017** Collected: 02/27/25 14:18 Received: 02/28/25 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00602J**	mg/L	0.0300	0.000600	1	03/12/25 14:34	03/12/25 19:00	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	03/01/25 17:55	03/03/25 13:50	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/06/25 20:31		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/06/25 20:31		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		03/06/25 20:31		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**619**	mg/L	25.0	25.0	1		03/05/25 12:24		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.1**	mg/L	1.0	0.60	1		03/02/25 01:46	16887-00-6	
Fluoride	**0.11**	mg/L	0.10	0.050	1		03/02/25 01:46	16984-48-8	
Sulfate	**314**	mg/L	7.0	3.5	7		03/02/25 07:55	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/17/25 18:50	03/19/25 20:34	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 20:34	7440-38-2	
Barium	**0.015**	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 20:34	7440-39-3	
Beryllium	**0.0039**	mg/L	0.00050	0.00015	1	03/17/25 18:50	03/19/25 20:34	7440-41-7	
Boron	**7.3**	mg/L	4.0	0.62	100	03/17/25 18:50	03/20/25 14:49	7440-42-8	
Cadmium	**0.0018**	mg/L	0.00050	0.00012	1	03/17/25 18:50	03/19/25 20:34	7440-43-9	
Calcium	**61.1**	mg/L	10.0	1.0	10	03/17/25 18:50	03/21/25 18:04	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 20:34	7440-47-3	
Cobalt	**0.0043J**	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 20:34	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/17/25 18:50	03/19/25 20:34	7439-92-1	
Magnesium	**50.2**	mg/L	0.50	0.10	10	03/17/25 18:50	03/20/25 14:39	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/17/25 18:50	03/19/25 20:34	7439-98-7	
Potassium	**4.3**	mg/L	0.50	0.10	1	03/17/25 18:50	03/19/25 20:34	7440-09-7	
Selenium	**0.021**	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 20:34	7782-49-2	
Sodium	**17.4**	mg/L	1.0	0.15	1	03/17/25 18:50	03/19/25 20:34	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/17/25 18:50	03/19/25 20:34	7440-28-0	

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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

Sample: YAT-PZ-55 **Lab ID: 92781919018** Collected: 02/27/25 11:06 Received: 02/28/25 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00343J**	mg/L	0.0300	0.000600	1	03/12/25 14:34	03/12/25 19:03	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	03/01/25 17:55	03/03/25 13:52	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**17.0**	mg/L	5.0	5.0	1		03/06/25 20:45		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/06/25 20:45		
Alkalinity, Total as CaCO3	**17.0**	mg/L	5.0	5.0	1		03/06/25 20:45		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**273**	mg/L	25.0	25.0	1		03/05/25 12:24		
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		03/02/25 02:01	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/02/25 02:01	16984-48-8	
Sulfate	**128**	mg/L	3.0	1.5	3		03/02/25 08:40	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/17/25 18:50	03/19/25 20:43	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 20:43	7440-38-2	
Barium	**0.044**	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 20:43	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/17/25 18:50	03/19/25 20:43	7440-41-7	
Boron	**3.8**	mg/L	0.80	0.12	20	03/17/25 18:50	03/20/25 14:58	7440-42-8	
Cadmium	**0.00071**	mg/L	0.00050	0.00012	1	03/17/25 18:50	03/19/25 20:43	7440-43-9	
Calcium	**21.2**	mg/L	1.0	0.10	1	03/17/25 18:50	03/19/25 20:43	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 20:43	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 20:43	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/17/25 18:50	03/19/25 20:43	7439-92-1	
Magnesium	**22.3**	mg/L	0.050	0.010	1	03/17/25 18:50	03/19/25 20:43	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/17/25 18:50	03/19/25 20:43	7439-98-7	
Potassium	**4.3**	mg/L	0.50	0.10	1	03/17/25 18:50	03/19/25 20:43	7440-09-7	
Selenium	**0.022**	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 20:43	7782-49-2	
Sodium	**17.5**	mg/L	1.0	0.15	1	03/17/25 18:50	03/19/25 20:43	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/17/25 18:50	03/19/25 20:43	7440-28-0	

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

ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

Sample: YAT-PZ-54D **Lab ID: 92781919019** Collected: 02/27/25 13:00 Received: 02/28/25 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.0237J**	mg/L	0.0300	0.000600	1	03/12/25 14:34	03/12/25 19:07	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	03/01/25 17:55	03/03/25 13:54	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**300**	mg/L	5.0	5.0	1		03/08/25 16:55		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/08/25 16:55		
Alkalinity, Total as CaCO3	**300**	mg/L	5.0	5.0	1		03/08/25 16:55		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**614**	mg/L	50.0	50.0	1		03/05/25 12:24		
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		03/02/25 02:46	16887-00-6	
Fluoride	**0.10**	mg/L	0.10	0.050	1		03/02/25 02:46	16984-48-8	
Sulfate	**161**	mg/L	4.0	2.0	4		03/02/25 08:54	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/17/25 18:50	03/19/25 20:52	7440-36-0	
Arsenic	**0.0021J**	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 20:52	7440-38-2	
Barium	**0.040**	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 20:52	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/17/25 18:50	03/19/25 20:52	7440-41-7	
Boron	**1.6**	mg/L	0.40	0.062	10	03/17/25 18:50	03/20/25 15:25	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/17/25 18:50	03/19/25 20:52	7440-43-9	
Calcium	**62.4**	mg/L	10.0	1.0	10	03/17/25 18:50	03/21/25 18:13	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 20:52	7440-47-3	
Cobalt	**0.0034J**	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 20:52	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/17/25 18:50	03/19/25 20:52	7439-92-1	
Magnesium	**10.2**	mg/L	0.050	0.010	1	03/17/25 18:50	03/19/25 20:52	7439-95-4	
Molybdenum	**0.017**	mg/L	0.010	0.0025	1	03/17/25 18:50	03/19/25 20:52	7439-98-7	
Potassium	**2.9**	mg/L	0.50	0.10	1	03/17/25 18:50	03/19/25 20:52	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 20:52	7782-49-2	
Sodium	**131**	mg/L	10.0	1.5	10	03/17/25 18:50	03/20/25 15:25	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/17/25 18:50	03/19/25 20:52	7440-28-0	

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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

Sample: YAT-YGWC-23S **Lab ID: 92781919020** Collected: 02/27/25 16:10 Received: 02/28/25 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00324J**	mg/L	0.0300	0.000600	1	03/12/25 14:34	03/12/25 19:16	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	03/01/25 17:55	03/03/25 13:56	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**13.0**	mg/L	5.0	5.0	1		03/06/25 21:10		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/06/25 21:10		
Alkalinity, Total as CaCO3	**13.0**	mg/L	5.0	5.0	1		03/06/25 21:10		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**218**	mg/L	25.0	25.0	1		03/06/25 13:34		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.8**	mg/L	1.0	0.60	1		03/02/25 03:01	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/02/25 03:01	16984-48-8	
Sulfate	**92.2**	mg/L	2.0	1.0	2		03/02/25 09:09	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/17/25 18:50	03/19/25 21:01	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 21:01	7440-38-2	
Barium	**0.080**	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 21:01	7440-39-3	
Beryllium	**0.00030J**	mg/L	0.00050	0.00015	1	03/17/25 18:50	03/19/25 21:01	7440-41-7	
Boron	**1.8**	mg/L	0.40	0.062	10	03/17/25 18:50	03/20/25 15:34	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/17/25 18:50	03/19/25 21:01	7440-43-9	
Calcium	**16.2**	mg/L	1.0	0.10	1	03/17/25 18:50	03/19/25 21:01	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 21:01	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 21:01	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/17/25 18:50	03/19/25 21:01	7439-92-1	
Magnesium	**13.9**	mg/L	0.050	0.010	1	03/17/25 18:50	03/19/25 21:01	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/17/25 18:50	03/19/25 21:01	7439-98-7	
Potassium	**1.4**	mg/L	0.50	0.10	1	03/17/25 18:50	03/19/25 21:01	7440-09-7	
Selenium	**0.044**	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 21:01	7782-49-2	
Sodium	**20.1**	mg/L	1.0	0.15	1	03/17/25 18:50	03/19/25 21:01	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/17/25 18:50	03/19/25 21:01	7440-28-0	

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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

Sample: YAT-YAMW-5 **Lab ID: 92781919021** Collected: 02/27/25 14:57 Received: 02/28/25 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.0168J**	mg/L	0.0300	0.000600	1	03/12/25 14:34	03/12/25 19:19	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	03/01/25 17:55	03/03/25 14:43	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**14.7**	mg/L	5.0	5.0	1		03/06/25 21:15		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/06/25 21:15		
Alkalinity, Total as CaCO3	**14.7**	mg/L	5.0	5.0	1		03/06/25 21:15		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**652**	mg/L	25.0	25.0	1		03/06/25 13:34		
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		03/01/25 13:15	16887-00-6	
Fluoride	**0.050J**	mg/L	0.10	0.050	1		03/01/25 13:15	16984-48-8	M1
Sulfate	**321**	mg/L	8.0	4.0	8		03/01/25 19:56	14808-79-8	M1
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/17/25 18:50	03/19/25 21:10	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 21:10	7440-38-2	
Barium	**0.038**	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 21:10	7440-39-3	
Beryllium	**0.00016J**	mg/L	0.00050	0.00015	1	03/17/25 18:50	03/19/25 21:10	7440-41-7	
Boron	**7.4**	mg/L	4.0	0.62	100	03/17/25 18:50	03/20/25 15:52	7440-42-8	
Cadmium	**0.00021J**	mg/L	0.00050	0.00012	1	03/17/25 18:50	03/19/25 21:10	7440-43-9	
Calcium	**54.3**	mg/L	10.0	1.0	10	03/17/25 18:50	03/21/25 18:22	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 21:10	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 21:10	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/17/25 18:50	03/19/25 21:10	7439-92-1	
Magnesium	**52.5**	mg/L	0.50	0.10	10	03/17/25 18:50	03/20/25 15:43	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/17/25 18:50	03/19/25 21:10	7439-98-7	
Potassium	**7.9**	mg/L	0.50	0.10	1	03/17/25 18:50	03/19/25 21:10	7440-09-7	
Selenium	**0.056**	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/19/25 21:10	7782-49-2	
Sodium	**37.2**	mg/L	10.0	1.5	10	03/17/25 18:50	03/20/25 15:43	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/17/25 18:50	03/19/25 21:10	7440-28-0	

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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

Sample: YAT-PZ-37 **Lab ID: 92781919022** Collected: 02/27/25 13:52 Received: 02/28/25 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.0172J**	mg/L	0.0300	0.000600	1	03/12/25 14:34	03/12/25 19:22	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	03/01/25 17:55	03/03/25 14:45	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**22.1**	mg/L	5.0	5.0	1		03/06/25 21:20		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/06/25 21:20		
Alkalinity, Total as CaCO3	**22.1**	mg/L	5.0	5.0	1		03/06/25 21:20		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**868**	mg/L	50.0	50.0	1		03/06/25 13:34		
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		03/01/25 13:59	16887-00-6	
Fluoride	**0.064J**	mg/L	0.10	0.050	1		03/01/25 13:59	16984-48-8	
Sulfate	**420**	mg/L	10.0	5.0	10		03/01/25 20:39	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	**0.0010J**	mg/L	0.0030	0.00050	1	03/17/25 18:50	03/25/25 19:58	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/25/25 19:58	7440-38-2	
Barium	**0.023**	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/25/25 19:58	7440-39-3	
Beryllium	**0.0015**	mg/L	0.00050	0.00015	1	03/17/25 18:50	03/25/25 19:58	7440-41-7	
Boron	**9.6**	mg/L	4.0	0.62	100	03/17/25 18:50	03/26/25 13:31	7440-42-8	M1
Cadmium	**0.00078**	mg/L	0.00050	0.00012	1	03/17/25 18:50	03/25/25 19:58	7440-43-9	
Calcium	**110**	mg/L	100	10.0	100	03/17/25 18:50	03/26/25 13:31	7440-70-2	M1
Chromium	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/25/25 19:58	7440-47-3	
Cobalt	**0.0019J**	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/25/25 19:58	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/17/25 18:50	03/25/25 19:58	7439-92-1	
Magnesium	**63.1**	mg/L	5.0	1.0	100	03/17/25 18:50	03/26/25 13:31	7439-95-4	M1
Molybdenum	ND	mg/L	0.010	0.0025	1	03/17/25 18:50	03/25/25 19:58	7439-98-7	
Potassium	**5.0**	mg/L	0.50	0.10	1	03/17/25 18:50	03/25/25 19:58	7440-09-7	
Selenium	**0.11**	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/25/25 19:58	7782-49-2	
Sodium	**25.6**	mg/L	1.0	0.15	1	03/17/25 18:50	03/25/25 19:58	7440-23-5	M1
Thallium	ND	mg/L	0.0010	0.00015	1	03/17/25 18:50	03/25/25 19:58	7440-28-0	

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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

Sample: YAT-PZ-37D **Lab ID: 92781919023** Collected: 02/27/25 12:31 Received: 02/28/25 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.0102J**	mg/L	0.0300	0.000600	1	03/12/25 14:34	03/12/25 19:25	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	03/01/25 17:55	03/03/25 14:52	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**116**	mg/L	5.0	5.0	1		03/06/25 21:26		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/06/25 21:26		
Alkalinity, Total as CaCO3	**116**	mg/L	5.0	5.0	1		03/06/25 21:26		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**497**	mg/L	25.0	25.0	1		03/06/25 13:35		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**10.3**	mg/L	1.0	0.60	1		03/01/25 14:14	16887-00-6	
Fluoride	**0.20**	mg/L	0.10	0.050	1		03/01/25 14:14	16984-48-8	
Sulfate	**194**	mg/L	5.0	2.5	5		03/01/25 21:23	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/17/25 18:50	03/25/25 21:02	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/25/25 21:02	7440-38-2	
Barium	**0.021**	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/25/25 21:02	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/17/25 18:50	03/25/25 21:02	7440-41-7	
Boron	**0.72**	mg/L	0.40	0.062	10	03/17/25 18:50	03/26/25 14:17	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/17/25 18:50	03/25/25 21:02	7440-43-9	
Calcium	**68.8**	mg/L	10.0	1.0	10	03/17/25 18:50	03/26/25 14:17	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/25/25 21:02	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/25/25 21:02	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/17/25 18:50	03/25/25 21:02	7439-92-1	
Magnesium	**12.0**	mg/L	0.050	0.010	1	03/17/25 18:50	03/25/25 21:02	7439-95-4	
Molybdenum	**0.0043J**	mg/L	0.010	0.0025	1	03/17/25 18:50	03/25/25 21:02	7439-98-7	
Potassium	**6.0**	mg/L	0.50	0.10	1	03/17/25 18:50	03/25/25 21:02	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/25/25 21:02	7782-49-2	
Sodium	**66.9**	mg/L	10.0	1.5	10	03/17/25 18:50	03/26/25 14:17	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/17/25 18:50	03/25/25 21:02	7440-28-0	

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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

Sample: YAT-PZ-52D **Lab ID: 92781919024** Collected: 02/27/25 10:27 Received: 02/28/25 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.0331**	mg/L	0.0300	0.000600	1	03/12/25 14:34	03/12/25 19:29	7439-93-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	03/01/25 17:55	03/03/25 14:54	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**26.8**	mg/L	5.0	5.0	1		03/06/25 21:34		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/06/25 21:34		
Alkalinity, Total as CaCO3	**26.8**	mg/L	5.0	5.0	1		03/06/25 21:34		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**580**	mg/L	25.0	25.0	1		03/06/25 13:35		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.4**	mg/L	1.0	0.60	1		03/01/25 14:29	16887-00-6	
Fluoride	**0.064J**	mg/L	0.10	0.050	1		03/01/25 14:29	16984-48-8	
Sulfate	**279**	mg/L	7.0	3.5	7		03/01/25 21:38	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	**0.016**	mg/L	0.0030	0.00050	1	03/17/25 18:50	03/25/25 21:11	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/25/25 21:11	7440-38-2	
Barium	**0.016**	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/25/25 21:11	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/17/25 18:50	03/25/25 21:11	7440-41-7	
Boron	**2.2**	mg/L	0.80	0.12	20	03/17/25 18:50	03/26/25 14:45	7440-42-8	
Cadmium	**0.00025J**	mg/L	0.00050	0.00012	1	03/17/25 18:50	03/25/25 21:11	7440-43-9	
Calcium	**24.8**	mg/L	1.0	0.10	1	03/17/25 18:50	03/25/25 21:11	7440-70-2	
Chromium	**0.0013J**	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/25/25 21:11	7440-47-3	
Cobalt	**0.0035J**	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/25/25 21:11	7440-48-4	
Lead	**0.0010**	mg/L	0.0010	0.00025	1	03/17/25 18:50	03/25/25 21:11	7439-92-1	
Magnesium	**58.1**	mg/L	1.0	0.20	20	03/17/25 18:50	03/26/25 14:45	7439-95-4	
Molybdenum	**0.0079J**	mg/L	0.010	0.0025	1	03/17/25 18:50	03/25/25 21:11	7439-98-7	
Potassium	**9.0**	mg/L	0.50	0.10	1	03/17/25 18:50	03/25/25 21:11	7440-09-7	
Selenium	**0.0098**	mg/L	0.0050	0.0012	1	03/17/25 18:50	03/25/25 21:11	7782-49-2	
Sodium	**45.4**	mg/L	20.0	3.0	20	03/17/25 18:50	03/26/25 14:45	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/17/25 18:50	03/25/25 21:11	7440-28-0	

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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

Sample: YAT-YGWC-24SB **Lab ID: 92781919025** Collected: 03/17/25 14:45 Received: 03/18/25 11:53 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.000839J**	mg/L	0.0300	0.000600	1	03/25/25 10:04	03/25/25 17:48	7439-93-2	J
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**14.2**	mg/L	5.0	5.0	1		03/20/25 19:40		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/20/25 19:40		
Alkalinity, Total as CaCO3	**14.2**	mg/L	5.0	5.0	1		03/20/25 19:40		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**70.0**	mg/L	25.0	25.0	1		03/21/25 10:46		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**8.6**	mg/L	1.0	0.60	1		03/20/25 08:22	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/20/25 08:22	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/20/25 08:22	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	04/05/25 08:04	04/07/25 12:32	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	04/05/25 08:04	04/07/25 12:32	7440-38-2	
Barium	**0.027**	mg/L	0.0050	0.0012	1	04/05/25 08:04	04/07/25 12:32	7440-39-3	
Beryllium	**0.00016J**	mg/L	0.00050	0.00015	1	04/05/25 08:04	04/07/25 12:32	7440-41-7	
Boron	ND	mg/L	0.040	0.0062	1	04/05/25 08:04	04/07/25 12:32	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	04/05/25 08:04	04/07/25 12:32	7440-43-9	
Calcium	**2.9**	mg/L	1.0	0.10	1	04/05/25 08:04	04/07/25 12:32	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	04/05/25 08:04	04/07/25 12:32	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	04/05/25 08:04	04/07/25 12:32	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	04/05/25 08:04	04/07/25 12:32	7439-92-1	
Magnesium	**1.6**	mg/L	0.050	0.010	1	04/05/25 08:04	04/07/25 12:32	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	04/05/25 08:04	04/07/25 12:32	7439-98-7	
Potassium	**1.4**	mg/L	0.50	0.10	1	04/05/25 08:04	04/07/25 12:32	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	04/05/25 08:04	04/07/25 12:32	7782-49-2	
Sodium	**10.4**	mg/L	1.0	0.15	1	04/05/25 08:04	04/07/25 12:32	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	04/05/25 08:04	04/07/25 12:32	7440-28-0	
WCOL 7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia								
Mercury	ND	mg/L	0.00020	0.000091	1	04/02/25 10:38	04/03/25 06:50	7439-97-6	

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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

Sample: YAT-AMA-R6-EB-1 **Lab ID: 92781919026** Collected: 03/17/25 11:35 Received: 03/18/25 11:53 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	ND	mg/L	0.0300	0.000600	1	03/25/25 10:04	03/25/25 17:51	7439-93-2	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/20/25 19:45		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/20/25 19:45		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		03/20/25 19:45		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		03/21/25 14:26		
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		03/20/25 03:57	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/20/25 03:57	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/20/25 03:57	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	04/05/25 08:04	04/07/25 12:41	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	04/05/25 08:04	04/07/25 12:41	7440-38-2	
Barium	ND	mg/L	0.0050	0.0012	1	04/05/25 08:04	04/07/25 12:41	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	04/05/25 08:04	04/07/25 12:41	7440-41-7	
Boron	ND	mg/L	0.040	0.0062	1	04/05/25 08:04	04/07/25 12:41	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	04/05/25 08:04	04/07/25 12:41	7440-43-9	
Calcium	ND	mg/L	1.0	0.10	1	04/05/25 08:04	04/07/25 12:41	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	04/05/25 08:04	04/07/25 12:41	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	04/05/25 08:04	04/07/25 12:41	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	04/05/25 08:04	04/07/25 12:41	7439-92-1	
Magnesium	ND	mg/L	0.050	0.010	1	04/05/25 08:04	04/07/25 12:41	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	04/05/25 08:04	04/07/25 12:41	7439-98-7	
Potassium	ND	mg/L	0.50	0.10	1	04/05/25 08:04	04/07/25 12:41	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	04/05/25 08:04	04/07/25 12:41	7782-49-2	
Sodium	ND	mg/L	1.0	0.15	1	04/05/25 08:04	04/07/25 12:41	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	04/05/25 08:04	04/07/25 12:41	7440-28-0	
WCOL 7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia								
Mercury	ND	mg/L	0.00020	0.000091	1	04/02/25 10:38	04/03/25 06:52	7439-97-6	

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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

Sample: YAT-AMA-R6-FB-1 **Lab ID: 92781919027** Collected: 03/17/25 15:15 Received: 03/18/25 11:53 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	ND	mg/L	0.0300	0.000600	1	03/25/25 10:04	03/25/25 17:54	7439-93-2	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/20/25 19:49		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/20/25 19:49		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		03/20/25 19:49		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		03/21/25 14:26		
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		03/20/25 04:11	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/20/25 04:11	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/20/25 04:11	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	04/05/25 08:04	04/07/25 12:50	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	04/05/25 08:04	04/07/25 12:50	7440-38-2	
Barium	ND	mg/L	0.0050	0.0012	1	04/05/25 08:04	04/07/25 12:50	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	04/05/25 08:04	04/07/25 12:50	7440-41-7	
Boron	ND	mg/L	0.040	0.0062	1	04/05/25 08:04	04/07/25 12:50	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	04/05/25 08:04	04/07/25 12:50	7440-43-9	
Calcium	ND	mg/L	1.0	0.10	1	04/05/25 08:04	04/07/25 12:50	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	04/05/25 08:04	04/07/25 12:50	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	04/05/25 08:04	04/07/25 12:50	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	04/05/25 08:04	04/07/25 12:50	7439-92-1	
Magnesium	ND	mg/L	0.050	0.010	1	04/05/25 08:04	04/07/25 12:50	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	04/05/25 08:04	04/07/25 12:50	7439-98-7	
Potassium	ND	mg/L	0.50	0.10	1	04/05/25 08:04	04/07/25 12:50	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	04/05/25 08:04	04/07/25 12:50	7782-49-2	
Sodium	ND	mg/L	1.0	0.15	1	04/05/25 08:04	04/07/25 12:50	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	04/05/25 08:04	04/07/25 12:50	7440-28-0	
WCOL 7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia								
Mercury	ND	mg/L	0.00020	0.000091	1	04/02/25 10:38	04/03/25 06:55	7439-97-6	

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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

Sample: YAT-AMA-R6-FD-1 **Lab ID: 92781919028** Collected: 03/17/25 00:00 Received: 03/18/25 11:53 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.000944J**	mg/L	0.0300	0.000600	1	03/25/25 10:04	03/25/25 17:31	7439-93-2	J
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**13.9**	mg/L	5.0	5.0	1		03/20/25 19:52		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/20/25 19:52		
Alkalinity, Total as CaCO3	**13.9**	mg/L	5.0	5.0	1		03/20/25 19:52		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**85.0**	mg/L	25.0	25.0	1		03/21/25 14:26		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**8.6**	mg/L	1.0	0.60	1		03/20/25 09:02	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/20/25 09:02	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/20/25 09:02	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	04/05/25 08:04	04/07/25 12:59	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	04/05/25 08:04	04/07/25 12:59	7440-38-2	
Barium	**0.027**	mg/L	0.0050	0.0012	1	04/05/25 08:04	04/07/25 12:59	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	04/05/25 08:04	04/07/25 12:59	7440-41-7	
Boron	ND	mg/L	0.040	0.0062	1	04/05/25 08:04	04/07/25 12:59	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	04/05/25 08:04	04/07/25 12:59	7440-43-9	
Calcium	**2.8**	mg/L	1.0	0.10	1	04/05/25 08:04	04/07/25 12:59	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	04/05/25 08:04	04/07/25 12:59	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	04/05/25 08:04	04/07/25 12:59	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	04/05/25 08:04	04/07/25 12:59	7439-92-1	
Magnesium	**1.6**	mg/L	0.050	0.010	1	04/05/25 08:04	04/07/25 12:59	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	04/05/25 08:04	04/07/25 12:59	7439-98-7	
Potassium	**1.3**	mg/L	0.50	0.10	1	04/05/25 08:04	04/07/25 12:59	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	04/05/25 08:04	04/07/25 12:59	7782-49-2	
Sodium	**10.1**	mg/L	1.0	0.15	1	04/05/25 08:04	04/07/25 12:59	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	04/05/25 08:04	04/07/25 12:59	7440-28-0	
WCOL 7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia								
Mercury	ND	mg/L	0.00020	0.000091	1	04/02/25 10:38	04/03/25 07:03	7439-97-6	

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

QC Batch: 2467118
QC Batch Method: 3015
Analysis Method: EPA 6020B
Analysis Description: Metals (ICPMS) 6020B
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92781919001, 92781919002, 92781919003, 92781919004

METHOD BLANK: R4185481-1 Matrix: Water
Associated Lab Samples: 92781919001, 92781919002, 92781919003, 92781919004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lithium	mg/L	ND	0.0300	0.000600	03/12/25 12:22	

LABORATORY CONTROL SAMPLE: R4185481-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	0.0500	0.0498	99.6	80.0-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R4185481-4 R4185481-5

Parameter	Units	L1834706-15 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	mg/L	ND	0.0500	0.0500	0.0511	0.0506	102	101	75.0-125	1.10	20	

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

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

QC Batch: 2467119
QC Batch Method: 3015
Analysis Method: EPA 6020B
Analysis Description: Metals (ICPMS) 6020B
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92781919005, 92781919006, 92781919007, 92781919008, 92781919009, 92781919010, 92781919011, 92781919012, 92781919013, 92781919014, 92781919015, 92781919016, 92781919017, 92781919018, 92781919019, 92781919020, 92781919021, 92781919022, 92781919023, 92781919024

METHOD BLANK: R4185675-1 Matrix: Water
Associated Lab Samples: 92781919005, 92781919006, 92781919007, 92781919008, 92781919009, 92781919010, 92781919011, 92781919012, 92781919013, 92781919014, 92781919015, 92781919016, 92781919017, 92781919018, 92781919019, 92781919020, 92781919021, 92781919022, 92781919023, 92781919024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lithium	mg/L	ND	0.0300	0.000600	03/12/25 17:58	

LABORATORY CONTROL SAMPLE: R4185675-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	0.0500	0.0525	105	80.0-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R4185675-4 R4185675-5

Parameter	Units	92781919005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	mg/L	0.00237	0.0500	0.0500	0.0530	0.0540	101	103	75.0-125	1.69	20	

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

QC Batch: 2473932
QC Batch Method: 3015
Analysis Method: EPA 6020B
Analysis Description: Metals (ICPMS) 6020B
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92781919025, 92781919026, 92781919027, 92781919028

METHOD BLANK: R4190865-1 Matrix: Water
Associated Lab Samples: 92781919025, 92781919026, 92781919027, 92781919028

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lithium	mg/L	ND	0.0300	0.000600	03/25/25 17:25	

LABORATORY CONTROL SAMPLE: R4190865-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	0.0500	0.0547	109	80.0-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R4190865-4 R4190865-5

Parameter	Units	92781919028 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	mg/L	0.000944	0.0500	0.0500	0.0553	0.0562	109	110	75.0-125	1.64	20	

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

QC Batch: 919472
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92781919001, 92781919002, 92781919003, 92781919004, 92781919005, 92781919006, 92781919007, 92781919008, 92781919009, 92781919010, 92781919011, 92781919012, 92781919013, 92781919014, 92781919015, 92781919016, 92781919017, 92781919018, 92781919019, 92781919020

METHOD BLANK: 4725183 Matrix: Water
Associated Lab Samples: 92781919001, 92781919002, 92781919003, 92781919004, 92781919005, 92781919006, 92781919007, 92781919008, 92781919009, 92781919010, 92781919011, 92781919012, 92781919013, 92781919014, 92781919015, 92781919016, 92781919017, 92781919018, 92781919019, 92781919020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00012	03/03/25 13:00	

LABORATORY CONTROL SAMPLE: 4725184

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: 4725185 4725186

Parameter	Units	92781919001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0024	0.0024	97	96	75-125	1	25	

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

QC Batch: 919473
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92781919021, 92781919022, 92781919023, 92781919024

METHOD BLANK: 4725187 Matrix: Water
Associated Lab Samples: 92781919021, 92781919022, 92781919023, 92781919024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00012	03/03/25 14:02	

LABORATORY CONTROL SAMPLE: 4725188

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4725189 4725190

Parameter	Units	92781915002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0024	0.0025	95	98	75-125	3	25	

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

QC Batch: 919795
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92781919001

METHOD BLANK: 4726469 Matrix: Water
Associated Lab Samples: 92781919001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	03/04/25 12:51	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	03/04/25 12:51	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	03/04/25 12:51	

LABORATORY CONTROL SAMPLE: 4726470

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.6	101	80-120	

LABORATORY CONTROL SAMPLE: 4726471

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4726472 4726473

Parameter	Units	92781183001 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	42900	50	50	43300	43200	842	500	80-120	0	25	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4726474 4726475

Parameter	Units	92781183004 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	33200	50	50	35600	34600	4920	2830	80-120	3	25	M1

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

QC Batch: 920108
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92781919002, 92781919003, 92781919004, 92781919005, 92781919006, 92781919007, 92781919008, 92781919009, 92781919010, 92781919011

METHOD BLANK: 4727802 Matrix: Water
Associated Lab Samples: 92781919002, 92781919003, 92781919004, 92781919005, 92781919006, 92781919007, 92781919008, 92781919009, 92781919010, 92781919011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	03/05/25 20:35	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	03/05/25 20:35	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	03/05/25 20:35	

LABORATORY CONTROL SAMPLE: 4727803

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

LABORATORY CONTROL SAMPLE: 4727804

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.2	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4727805 4727806

Parameter	Units	92781919010 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	26.7	50	50	77.0	76.3	101	99	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4727807 4727808

Parameter	Units	92781919011 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	54.3	50	50	105	105	102	101	80-120	0	25	

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

QC Batch: 920471
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92781919012, 92781919013, 92781919014, 92781919015

METHOD BLANK: 4729686 Matrix: Water
Associated Lab Samples: 92781919012, 92781919013, 92781919014, 92781919015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	03/07/25 13:52	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	03/07/25 13:52	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	03/07/25 13:52	

LABORATORY CONTROL SAMPLE: 4729687

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.7	105	80-120	

LABORATORY CONTROL SAMPLE: 4729688

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.8	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4729689 4729690

Parameter	Units	92782219004 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	155	50	50	204	206	97	102	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4729691 4729692

Parameter	Units	92782219005 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	51.5	51.8	103	103	80-120	1	25	

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

QC Batch: 920556
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92781919016, 92781919017, 92781919018, 92781919020, 92781919021, 92781919022, 92781919023, 92781919024

METHOD BLANK: 4730332 Matrix: Water
Associated Lab Samples: 92781919016, 92781919017, 92781919018, 92781919020, 92781919021, 92781919022, 92781919023, 92781919024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	03/06/25 19:59	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	03/06/25 19:59	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	03/06/25 19:59	

LABORATORY CONTROL SAMPLE: 4730333

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.3	103	80-120	

LABORATORY CONTROL SAMPLE: 4730334

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4730335 4730336

Parameter	Units	92781919016 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	32.9	50	50	69.2	70.6	73	75	80-120	2	25	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4730337 4730338

Parameter	Units	92781919017 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	55.7	55.4	103	103	80-120	1	25	

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

QC Batch: 920888
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92781919019

METHOD BLANK: 4732149 Matrix: Water
Associated Lab Samples: 92781919019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	03/08/25 15:50	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	03/08/25 15:50	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	03/08/25 15:50	

LABORATORY CONTROL SAMPLE: 4732150

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: 4732151

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4732152 4732153

Parameter	Units	92782027001 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	58800	50	50	61800	62100	5850	6610	80-120	1	25	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4732154 4732155

Parameter	Units	92782027004 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	20500	50	50	20400	20700	-205	486	80-120	2	25	M1

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

QC Batch: 923601
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92781919025, 92781919026, 92781919027, 92781919028

METHOD BLANK: 4745229 Matrix: Water
Associated Lab Samples: 92781919025, 92781919026, 92781919027, 92781919028

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	03/20/25 18:10	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	03/20/25 18:10	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	03/20/25 18:10	

LABORATORY CONTROL SAMPLE: 4745230

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.6	103	80-120	

LABORATORY CONTROL SAMPLE: 4745231

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.3	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4745232 4745233

Parameter	Units	92785874001 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	1950	50	50	1970	1970	41	35	80-120	0	25	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4745234 4745235

Parameter	Units	92786078007 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	82.1	50	50	131	135	98	106	80-120	3	25	

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

QC Batch: 919710
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92781919001

METHOD BLANK: 4726153 Matrix: Water
Associated Lab Samples: 92781919001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	03/04/25 16:45	

LABORATORY CONTROL SAMPLE: 4726154

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	256	102	90-110	

SAMPLE DUPLICATE: 4726155

Parameter	Units	92781909024 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	51.0	52.0	2	25	

SAMPLE DUPLICATE: 4726156

Parameter	Units	92782188021 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	219	213	3	25	

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

QC Batch: 919958
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92781919002, 92781919003, 92781919004, 92781919005, 92781919006, 92781919007, 92781919008, 92781919009, 92781919010, 92781919011, 92781919012, 92781919013, 92781919014, 92781919015

METHOD BLANK: 4727348 Matrix: Water
Associated Lab Samples: 92781919002, 92781919003, 92781919004, 92781919005, 92781919006, 92781919007, 92781919008, 92781919009, 92781919010, 92781919011, 92781919012, 92781919013, 92781919014, 92781919015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	03/05/25 12:40	

LABORATORY CONTROL SAMPLE: 4727349

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	248	99	90-110	

SAMPLE DUPLICATE: 4727350

Parameter	Units	92782188024 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	36.0	40.0	11	25	

SAMPLE DUPLICATE: 4727351

Parameter	Units	92781919007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	347	344	1	25	

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

QC Batch: 919962
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92781919016, 92781919017, 92781919018, 92781919019

METHOD BLANK: 4727362 Matrix: Water
Associated Lab Samples: 92781919016, 92781919017, 92781919018, 92781919019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	03/05/25 12:20	

LABORATORY CONTROL SAMPLE: 4727363

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	250	100	90-110	

SAMPLE DUPLICATE: 4727364

Parameter	Units	92782406005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	202	197	3	25	

SAMPLE DUPLICATE: 4727365

Parameter	Units	92782410012 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	121	116	4	25	

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

QC Batch: 920258 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92781919020, 92781919021, 92781919022, 92781919023, 92781919024

METHOD BLANK: 4728740 Matrix: Water
Associated Lab Samples: 92781919020, 92781919021, 92781919022, 92781919023, 92781919024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	03/06/25 13:34	

LABORATORY CONTROL SAMPLE: 4728741

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	244	97	90-110	

SAMPLE DUPLICATE: 4728742

Parameter	Units	92781919020 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	218	222	2	25	

SAMPLE DUPLICATE: 4728743

Parameter	Units	92782410002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	211	211	0	25	

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

QC Batch: 923953
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92781919025

METHOD BLANK: 4746950 Matrix: Water
Associated Lab Samples: 92781919025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	03/21/25 10:41	

LABORATORY CONTROL SAMPLE: 4746951

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	242	97	90-110	

SAMPLE DUPLICATE: 4746952

Parameter	Units	92785306004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	65.0	62.0	5	25	

SAMPLE DUPLICATE: 4746953

Parameter	Units	92785552001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1430	1430	0	25	

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

QC Batch: 924011
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92781919026, 92781919027, 92781919028

METHOD BLANK: 4747159 Matrix: Water
Associated Lab Samples: 92781919026, 92781919027, 92781919028

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	03/21/25 14:26	

LABORATORY CONTROL SAMPLE: 4747160

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	250	100	90-110	

SAMPLE DUPLICATE: 4747161

Parameter	Units	92781919026 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		25	

SAMPLE DUPLICATE: 4747162

Parameter	Units	92785689005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	70.0	67.0	4	25	

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

QC Batch: 919137
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92781919001

METHOD BLANK: 4723565 Matrix: Water
Associated Lab Samples: 92781919001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/27/25 22:28	
Fluoride	mg/L	ND	0.10	0.050	02/27/25 22:28	
Sulfate	mg/L	ND	1.0	0.50	02/27/25 22:28	

LABORATORY CONTROL SAMPLE: 4723566

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.2	96	90-110	
Fluoride	mg/L	2.5	2.4	96	90-110	
Sulfate	mg/L	50	48.9	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4723567 4723568

Parameter	Units	92781909015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	4.1	50	50	54.6	58.4	101	108	90-110	7	10	
Fluoride	mg/L	0.052J	2.5	2.5	2.6	2.6	102	102	90-110	0	10	
Sulfate	mg/L	6.5	50	50	57.9	61.7	103	110	90-110	6	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4723569 4723570

Parameter	Units	92781915001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	50	50	48.3	53.1	97	106	90-110	10	10	
Fluoride	mg/L	ND	2.5	2.5	2.4	2.6	96	106	90-110	10	10	
Sulfate	mg/L	ND	50	50	48.5	53.4	97	107	90-110	10	10	

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

QC Batch: 919450
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92781919002, 92781919003, 92781919004, 92781919005, 92781919006, 92781919007, 92781919008, 92781919009, 92781919010, 92781919011, 92781919012, 92781919013

METHOD BLANK: 4725104 Matrix: Water
Associated Lab Samples: 92781919002, 92781919003, 92781919004, 92781919005, 92781919006, 92781919007, 92781919008, 92781919009, 92781919010, 92781919011, 92781919012, 92781919013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/01/25 11:49	
Fluoride	mg/L	ND	0.10	0.050	03/01/25 11:49	
Sulfate	mg/L	ND	1.0	0.50	03/01/25 11:49	

LABORATORY CONTROL SAMPLE: 4725105

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.9	102	90-110	
Fluoride	mg/L	2.5	2.4	98	90-110	
Sulfate	mg/L	50	49.1	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4725106 4725107

Parameter	Units	92782346001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	2.4	50	50	51.7	53.3	99	102	90-110	3	10	
Fluoride	mg/L	ND	2.5	2.5	2.4	2.4	97	97	90-110	1	10	
Sulfate	mg/L	1.0	50	50	48.1	49.7	94	97	90-110	3	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4725108 4725109

Parameter	Units	92781919004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.3	50	50	55.0	55.1	99	100	90-110	0	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.5	102	101	90-110	1	10	
Sulfate	mg/L	252	50	50	289	296	74	88	90-110	2	10	M1

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

QC Batch: 919451
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92781919014, 92781919015, 92781919016, 92781919017, 92781919018, 92781919019, 92781919020

METHOD BLANK: 4725110 Matrix: Water
Associated Lab Samples: 92781919014, 92781919015, 92781919016, 92781919017, 92781919018, 92781919019, 92781919020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/01/25 21:17	
Fluoride	mg/L	ND	0.10	0.050	03/01/25 21:17	
Sulfate	mg/L	ND	1.0	0.50	03/01/25 21:17	

LABORATORY CONTROL SAMPLE: 4725111

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	52.0	104	90-110	
Fluoride	mg/L	2.5	2.5	98	90-110	
Sulfate	mg/L	50	50.2	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4725112 4725113

Parameter	Units	92781919014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	50	50	49.3	49.1	99	98	90-110	0	10	
Fluoride	mg/L	ND	2.5	2.5	2.4	2.3	95	93	90-110	2	10	
Sulfate	mg/L	ND	50	50	47.2	47.0	94	94	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4725114 4725115

Parameter	Units	92782219003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	10.1	50	50	60.3	60.6	100	101	90-110	1	10	
Fluoride	mg/L	0.067J	2.5	2.5	2.4	2.4	94	95	90-110	1	10	
Sulfate	mg/L	8.8	50	50	56.7	57.1	96	97	90-110	1	10	

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

QC Batch: 919454
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92781919021, 92781919022, 92781919023, 92781919024

METHOD BLANK: 4725120 Matrix: Water
Associated Lab Samples: 92781919021, 92781919022, 92781919023, 92781919024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/01/25 12:30	
Fluoride	mg/L	ND	0.10	0.050	03/01/25 12:30	
Sulfate	mg/L	ND	1.0	0.50	03/01/25 12:30	

LABORATORY CONTROL SAMPLE: 4725121

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.1	100	90-110	
Fluoride	mg/L	2.5	2.5	101	90-110	
Sulfate	mg/L	50	50.8	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4725122 4725123

Parameter	Units	92781919021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	3.3	50	50	51.8	52.0	97	97	90-110	0	10	
Fluoride	mg/L	0.050J	2.5	2.5	2.8	2.8	110	111	90-110	1	10	M1
Sulfate	mg/L	321	50	50	358	354	73	67	90-110	1	10	M1

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

QC Batch: 923462
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92781919025, 92781919026, 92781919027, 92781919028

METHOD BLANK: 4744768 Matrix: Water
Associated Lab Samples: 92781919025, 92781919026, 92781919027, 92781919028

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/20/25 03:17	
Fluoride	mg/L	ND	0.10	0.050	03/20/25 03:17	
Sulfate	mg/L	ND	1.0	0.50	03/20/25 03:17	

LABORATORY CONTROL SAMPLE: 4744769

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	52.9	106	90-110	
Fluoride	mg/L	2.5	2.6	103	90-110	
Sulfate	mg/L	50	52.9	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4744770 4744771

Parameter	Units	92785784001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.3	50	50	53.2	55.9	96	101	90-110	5	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.6	100	104	90-110	4	10	
Sulfate	mg/L	ND	50	50	47.9	50.6	96	101	90-110	6	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4744772 4744773

Parameter	Units	92781919025 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	8.6	50	50	57.7	58.8	98	100	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.4	2.5	97	99	90-110	2	10	
Sulfate	mg/L	ND	50	50	49.3	50.5	98	101	90-110	2	10	

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

QC Batch: 922647
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: WC 6020B MET
Laboratory: Pace Analytical Services - West Columbia
Associated Lab Samples: 92781919002, 92781919003, 92781919004, 92781919005, 92781919006, 92781919007, 92781919008, 92781919009, 92781919010, 92781919011, 92781919012, 92781919013, 92781919014, 92781919015, 92781919016, 92781919017, 92781919018, 92781919019, 92781919020, 92781919021

METHOD BLANK: 4740659
Matrix: Water
Associated Lab Samples: 92781919002, 92781919003, 92781919004, 92781919005, 92781919006, 92781919007, 92781919008, 92781919009, 92781919010, 92781919011, 92781919012, 92781919013, 92781919014, 92781919015, 92781919016, 92781919017, 92781919018, 92781919019, 92781919020, 92781919021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00050	03/19/25 16:29	
Arsenic	mg/L	ND	0.0050	0.0012	03/19/25 16:29	
Barium	mg/L	ND	0.0050	0.0012	03/19/25 16:29	
Beryllium	mg/L	ND	0.00050	0.00015	03/19/25 16:29	
Boron	mg/L	ND	0.040	0.0062	03/19/25 16:29	2g
Cadmium	mg/L	ND	0.00050	0.00012	03/19/25 16:29	
Calcium	mg/L	ND	1.0	0.10	03/19/25 16:29	
Chromium	mg/L	ND	0.0050	0.0012	03/19/25 16:29	
Cobalt	mg/L	ND	0.0050	0.0012	03/19/25 16:29	
Lead	mg/L	ND	0.0010	0.00025	03/19/25 16:29	
Magnesium	mg/L	ND	0.050	0.010	03/19/25 16:29	
Molybdenum	mg/L	ND	0.010	0.0025	03/19/25 16:29	
Potassium	mg/L	ND	0.50	0.10	03/19/25 16:29	
Selenium	mg/L	ND	0.0050	0.0012	03/19/25 16:29	
Sodium	mg/L	ND	1.0	0.15	03/19/25 16:29	
Thallium	mg/L	ND	0.0010	0.00015	03/19/25 16:29	

LABORATORY CONTROL SAMPLE: 4740660

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.096	96	80-120	
Arsenic	mg/L	0.1	0.093	93	80-120	
Barium	mg/L	0.1	0.098	98	80-120	
Beryllium	mg/L	0.1	0.10	101	80-120	
Boron	mg/L	0.1	0.097	97	80-120	1g
Cadmium	mg/L	0.1	0.096	96	80-120	
Calcium	mg/L	1	1.1	106	80-120	
Chromium	mg/L	0.1	0.10	103	80-120	
Cobalt	mg/L	0.1	0.11	105	80-120	
Lead	mg/L	0.1	0.10	104	80-120	
Magnesium	mg/L	1	1.1	106	80-120	
Molybdenum	mg/L	0.1	0.10	103	80-120	
Potassium	mg/L	1	1.1	105	80-120	
Selenium	mg/L	0.1	0.091	91	80-120	
Sodium	mg/L	1	1.1	105	80-120	

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

LABORATORY CONTROL SAMPLE: 4740660

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Thallium	mg/L	0.1	0.11	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4740661 4740662

Parameter	Units	92781919002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	0.00062J	0.1	0.1	0.099	0.10	99	99	75-125	1	20	
Arsenic	mg/L	ND	0.1	0.1	0.081	0.080	80	79	75-125	0	20	
Barium	mg/L	0.017	0.1	0.1	0.12	0.12	100	102	75-125	2	20	
Beryllium	mg/L	0.0030	0.1	0.1	0.091	0.092	88	89	75-125	0	20	
Boron	mg/L	23.5	0.1	0.1	23.3	23.6	-205	118	75-125	1	20	M1
Cadmium	mg/L	0.011	0.1	0.1	0.11	0.11	94	95	75-125	1	20	
Calcium	mg/L	312	1	1	318	318	512	597	75-125	0	20	M1
Chromium	mg/L	ND	0.1	0.1	0.091	0.090	91	90	75-125	1	20	
Cobalt	mg/L	0.0044J	0.1	0.1	0.092	0.091	88	86	75-125	2	20	
Lead	mg/L	ND	0.1	0.1	0.080	0.081	80	81	75-125	1	20	
Magnesium	mg/L	129	1	1	130	127	84	-195	75-125	2	20	M1
Molybdenum	mg/L	ND	0.1	0.1	0.11	0.11	107	109	75-125	3	20	
Potassium	mg/L	4.9	1	1	6.0	6.1	103	113	75-125	2	20	
Selenium	mg/L	ND	0.1	0.1	0.075	0.076	75	76	75-125	2	20	
Sodium	mg/L	25.7	1	1	25.9	25.1	21	-63	75-125	3	20	M1
Thallium	mg/L	0.00015J	0.1	0.1	0.082	0.084	82	84	75-125	2	20	

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

QC Batch: 922648
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: WC 6020B MET
Laboratory: Pace Analytical Services - West Columbia
Associated Lab Samples: 92781919022, 92781919023, 92781919024

METHOD BLANK: 4740663 Matrix: Water
Associated Lab Samples: 92781919022, 92781919023, 92781919024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00050	03/25/25 19:40	
Arsenic	mg/L	ND	0.0050	0.0012	03/25/25 19:40	
Barium	mg/L	ND	0.0050	0.0012	03/25/25 19:40	
Beryllium	mg/L	ND	0.00050	0.00015	03/25/25 19:40	
Boron	mg/L	ND	0.040	0.0062	03/26/25 11:27	
Cadmium	mg/L	ND	0.00050	0.00012	03/25/25 19:40	
Calcium	mg/L	ND	1.0	0.10	03/25/25 19:40	
Chromium	mg/L	ND	0.0050	0.0012	03/25/25 19:40	
Cobalt	mg/L	ND	0.0050	0.0012	03/25/25 19:40	
Lead	mg/L	ND	0.0010	0.00025	03/25/25 19:40	
Magnesium	mg/L	ND	0.050	0.010	03/25/25 19:40	
Molybdenum	mg/L	ND	0.010	0.0025	03/25/25 19:40	
Potassium	mg/L	ND	0.50	0.10	03/25/25 19:40	
Selenium	mg/L	ND	0.0050	0.0012	03/25/25 19:40	
Sodium	mg/L	ND	1.0	0.15	03/25/25 19:40	
Thallium	mg/L	ND	0.0010	0.00015	03/25/25 19:40	

LABORATORY CONTROL SAMPLE: 4740664

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.096	96	80-120	
Arsenic	mg/L	0.1	0.085	85	80-120	
Barium	mg/L	0.1	0.098	98	80-120	
Beryllium	mg/L	0.1	0.088	88	80-120	
Boron	mg/L	0.1	0.10	102	80-120	
Cadmium	mg/L	0.1	0.095	95	80-120	
Calcium	mg/L	1	1.0J	100	80-120	
Chromium	mg/L	0.1	0.10	101	80-120	
Cobalt	mg/L	0.1	0.11	107	80-120	
Lead	mg/L	0.1	0.10	102	80-120	
Magnesium	mg/L	1	1.0	102	80-120	
Molybdenum	mg/L	0.1	0.096	96	80-120	
Potassium	mg/L	1	1.0	101	80-120	
Selenium	mg/L	0.1	0.082	82	80-120	
Sodium	mg/L	1	0.97J	97	80-120	
Thallium	mg/L	0.1	0.10	102	80-120	

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4740665 4740666

Parameter	Units	92781919022 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	0.0010J	0.1	0.1	0.10	0.11	103	105	75-125	2	20	
Arsenic	mg/L	ND	0.1	0.1	0.096	0.099	95	98	75-125	3	20	
Barium	mg/L	0.023	0.1	0.1	0.12	0.13	101	104	75-125	3	20	
Beryllium	mg/L	0.0015	0.1	0.1	0.095	0.095	93	94	75-125	1	20	
Boron	mg/L	9.6	0.1	0.1	9.7	10.1	100	536	75-125	4	20	M1
Cadmium	mg/L	0.00078	0.1	0.1	0.083	0.085	83	84	75-125	1	20	
Calcium	mg/L	110	1	1	110	114	50	424	75-125	3	20	M1
Chromium	mg/L	ND	0.1	0.1	0.096	0.097	95	97	75-125	1	20	
Cobalt	mg/L	0.0019J	0.1	0.1	0.099	0.10	97	99	75-125	2	20	
Lead	mg/L	ND	0.1	0.1	0.080	0.081	80	81	75-125	1	20	
Magnesium	mg/L	63.1	1	1	63.8	65.4	69	235	75-125	3	20	M1
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.11	103	105	75-125	2	20	
Potassium	mg/L	5.0	1	1	5.8	6.0	86	99	75-125	2	20	
Selenium	mg/L	0.11	0.1	0.1	0.20	0.20	94	95	75-125	0	20	
Sodium	mg/L	25.6	1	1	25.9	26.6	23	98	75-125	3	20	M1
Thallium	mg/L	ND	0.1	0.1	0.083	0.084	83	84	75-125	1	20	

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

QC Batch: 923431
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: WC 6020B MET
Laboratory: Pace Analytical Services - West Columbia
Associated Lab Samples: 92781919001

METHOD BLANK: 4744500 Matrix: Water
Associated Lab Samples: 92781919001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00050	03/21/25 23:39	
Arsenic	mg/L	ND	0.0050	0.0012	03/21/25 23:39	
Barium	mg/L	ND	0.0050	0.0012	03/21/25 23:39	
Beryllium	mg/L	ND	0.00050	0.00015	03/21/25 23:39	
Boron	mg/L	ND	0.040	0.0062	03/21/25 23:39	
Cadmium	mg/L	ND	0.00050	0.00012	03/21/25 23:39	
Calcium	mg/L	ND	1.0	0.10	03/21/25 23:39	
Chromium	mg/L	ND	0.0050	0.0012	03/21/25 23:39	
Cobalt	mg/L	ND	0.0050	0.0012	03/21/25 23:39	
Lead	mg/L	ND	0.0010	0.00025	03/21/25 23:39	
Magnesium	mg/L	ND	0.050	0.010	03/21/25 23:39	
Molybdenum	mg/L	ND	0.010	0.0025	03/21/25 23:39	
Potassium	mg/L	ND	0.50	0.10	03/21/25 23:39	
Selenium	mg/L	ND	0.0050	0.0012	03/21/25 23:39	
Sodium	mg/L	ND	1.0	0.15	03/21/25 23:39	
Thallium	mg/L	ND	0.0010	0.00015	03/21/25 23:39	

LABORATORY CONTROL SAMPLE: 4744501

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	100	80-120	
Arsenic	mg/L	0.1	0.091	91	80-120	
Barium	mg/L	0.1	0.099	99	80-120	
Beryllium	mg/L	0.1	0.090	90	80-120	
Boron	mg/L	0.1	0.090	90	80-120	
Cadmium	mg/L	0.1	0.10	101	80-120	
Calcium	mg/L	1	1.1	106	80-120	
Chromium	mg/L	0.1	0.11	111	80-120	
Cobalt	mg/L	0.1	0.12	115	80-120	
Lead	mg/L	0.1	0.11	110	80-120	
Magnesium	mg/L	1	1.1	108	80-120	
Molybdenum	mg/L	0.1	0.11	106	80-120	
Potassium	mg/L	1	1.1	108	80-120	
Selenium	mg/L	0.1	0.083	83	80-120	
Sodium	mg/L	1	0.88J	88	80-120	
Thallium	mg/L	0.1	0.11	111	80-120	

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4744502 4744503

Parameter	Units	92778922001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.11	0.10	107	105	75-125	2	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	102	103	75-125	1	20	
Barium	mg/L	0.0045J	0.1	0.1	0.10	0.10	100	99	75-125	1	20	
Beryllium	mg/L	ND	0.1	0.1	0.096	0.097	96	97	75-125	0	20	
Boron	mg/L	0.26	0.1	0.1	0.36	0.36	93	100	75-125	2	20	
Cadmium	mg/L	ND	0.1	0.1	0.11	0.11	107	107	75-125	0	20	
Calcium	mg/L	25.4	1	1	25.8	26.3	41	93	75-125	2	20	M1
Chromium	mg/L	ND	0.1	0.1	0.11	0.11	111	108	75-125	2	20	
Cobalt	mg/L	ND	0.1	0.1	0.11	0.11	113	110	75-125	3	20	
Lead	mg/L	0.0037	0.1	0.1	0.11	0.11	106	107	75-125	1	20	
Magnesium	mg/L	8.4	1	1	9.5	9.5	116	112	75-125	0	20	
Molybdenum	mg/L	0.028	0.1	0.1	0.14	0.14	107	107	75-125	0	20	
Potassium	mg/L	3.0	1	1	4.1	4.1	107	112	75-125	1	20	
Selenium	mg/L	ND	0.1	0.1	0.094	0.095	94	95	75-125	1	20	
Sodium	mg/L	12.2	1	1	12.9	13.6	70	136	75-125	5	20	M1
Thallium	mg/L	0.00016J	0.1	0.1	0.11	0.11	108	108	75-125	0	20	

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

QC Batch: 927417
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: WC 6020B MET
Laboratory: Pace Analytical Services - West Columbia
Associated Lab Samples: 92781919025, 92781919026, 92781919027, 92781919028

METHOD BLANK: 4763932 Matrix: Water
Associated Lab Samples: 92781919025, 92781919026, 92781919027, 92781919028

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00050	04/07/25 12:14	
Arsenic	mg/L	ND	0.0050	0.0012	04/07/25 12:14	
Barium	mg/L	ND	0.0050	0.0012	04/07/25 12:14	
Beryllium	mg/L	ND	0.00050	0.00015	04/07/25 12:14	
Boron	mg/L	ND	0.040	0.0062	04/07/25 12:14	
Cadmium	mg/L	ND	0.00050	0.00012	04/07/25 12:14	
Calcium	mg/L	ND	1.0	0.10	04/07/25 12:14	
Chromium	mg/L	ND	0.0050	0.0012	04/07/25 12:14	
Cobalt	mg/L	ND	0.0050	0.0012	04/07/25 12:14	
Lead	mg/L	ND	0.0010	0.00025	04/07/25 12:14	
Magnesium	mg/L	ND	0.050	0.010	04/07/25 12:14	
Molybdenum	mg/L	ND	0.010	0.0025	04/07/25 12:14	
Potassium	mg/L	ND	0.50	0.10	04/07/25 12:14	
Selenium	mg/L	ND	0.0050	0.0012	04/07/25 12:14	
Sodium	mg/L	ND	1.0	0.15	04/07/25 12:14	
Thallium	mg/L	ND	0.0010	0.00015	04/07/25 12:14	

LABORATORY CONTROL SAMPLE: 4763933

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.096	96	80-120	
Arsenic	mg/L	0.1	0.088	88	80-120	
Barium	mg/L	0.1	0.099	99	80-120	
Beryllium	mg/L	0.1	0.093	93	80-120	
Boron	mg/L	0.1	0.094	94	80-120	
Cadmium	mg/L	0.1	0.097	97	80-120	
Calcium	mg/L	1	1.1	108	80-120	
Chromium	mg/L	0.1	0.10	101	80-120	
Cobalt	mg/L	0.1	0.10	103	80-120	
Lead	mg/L	0.1	0.10	104	80-120	
Magnesium	mg/L	1	1.0	102	80-120	
Molybdenum	mg/L	0.1	0.10	104	80-120	
Potassium	mg/L	1	1.0	100	80-120	
Selenium	mg/L	0.1	0.083	83	80-120	
Sodium	mg/L	1	0.93J	93	80-120	
Thallium	mg/L	0.1	0.099	99	80-120	

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4763934 4763935

Parameter	Units	92788664013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.099	0.099	99	98	75-125	0	20	
Arsenic	mg/L	ND	0.1	0.1	0.091	0.092	91	92	75-125	1	20	
Barium	mg/L	88.9 ug/L	0.1	0.1	0.19	0.19	102	101	75-125	0	20	
Beryllium	mg/L	ND	0.1	0.1	0.096	0.096	96	96	75-125	0	20	
Boron	mg/L	ND	0.1	0.1	0.098	0.098	95	95	75-125	0	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	104	104	75-125	0	20	
Calcium	mg/L	6640 ug/L	1	1	7.6	7.4	93	77	75-125	2	20	
Chromium	mg/L	ND	0.1	0.1	0.11	0.10	104	102	75-125	2	20	
Cobalt	mg/L	ND	0.1	0.1	0.11	0.11	106	105	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.10	0.10	104	104	75-125	0	20	
Magnesium	mg/L	3180 ug/L	1	1	4.2	4.2	106	107	75-125	0	20	
Molybdenum	mg/L	ND	0.1	0.1	0.098	0.10	98	100	75-125	1	20	
Potassium	mg/L	ND	1	1	1.3	1.3	107	107	75-125	0	20	
Selenium	mg/L	ND	0.1	0.1	0.11	0.10	106	101	75-125	4	20	
Sodium	mg/L	4640 ug/L	1	1	5.7	5.8	102	111	75-125	2	20	
Thallium	mg/L	ND	0.1	0.1	0.098	0.097	98	97	75-125	1	20	

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

QC Batch: 926644
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: WCOL 7470 Mercury
Laboratory: Pace Analytical Services - West Columbia
Associated Lab Samples: 92781919025, 92781919026, 92781919027, 92781919028

METHOD BLANK: 4759413 Matrix: Water
Associated Lab Samples: 92781919025, 92781919026, 92781919027, 92781919028

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000091	04/03/25 06:45	

LABORATORY CONTROL SAMPLE: 4759414

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.002	0.0021	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4759415 4759416

Parameter	Units	92781919027 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.002	0.002	0.0021	0.0021	105	103	80-120	2	20	

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QUALIFIERS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

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.

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TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1g	The continuing calibration verification (CCV) for this analyte was outside laboratory acceptance limits. The analyte was within LCS accceptance limits and will be reported.
2g	The continuing calibration verification (CCV) for this analyte was outside laboratory acceptance limits. The concentration in the method blank was non-detect and will be reported.
3g	The same analyte was detected in an associated instrument blank at a concentration above 1/2 the reporting limit but below the reporting limit. The concentration in the sample was non-detect.
4g	This analyte is being reported from a diluted analysis since the original undiluted analysis was bracketed by a CCV that was outside 6020B acceptance limits. The reporting limit has been adjusted accordingly.
J	Analyte detected below the reporting limit, therefore result is an estimate. This qualifier is also used for all TICs.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92781919001	**YAT-PZ-35**	3015	2467118	EPA 6020B	2467118
92781919002	**YAT-YGWC-50**	3015	2467118	EPA 6020B	2467118
92781919003	**YAT-YAMW-1**	3015	2467118	EPA 6020B	2467118
92781919004	**YAT-AMA-R6-FD-1**	3015	2467118	EPA 6020B	2467118
92781919005	**YAT-YGWC-36A**	3015	2467119	EPA 6020B	2467119
92781919006	**YAT-YGWC-49**	3015	2467119	EPA 6020B	2467119
92781919007	**YAT-YGWC-38**	3015	2467119	EPA 6020B	2467119
92781919008	**YAT-YGWC-41**	3015	2467119	EPA 6020B	2467119
92781919009	**YAT-YGWC-42**	3015	2467119	EPA 6020B	2467119
92781919010	**YAT-YAMW-2**	3015	2467119	EPA 6020B	2467119
92781919011	**YAT-YAMW-3**	3015	2467119	EPA 6020B	2467119
92781919012	**YAT-YAMW-4**	3015	2467119	EPA 6020B	2467119
92781919013	**YAT-AMA-R6-EB-1**	3015	2467119	EPA 6020B	2467119
92781919014	**YAT-AMA-R6-FB-1**	3015	2467119	EPA 6020B	2467119
92781919015	**YAT-AMA-R6-FD-2**	3015	2467119	EPA 6020B	2467119
92781919016	**YAT-YGWC-43**	3015	2467119	EPA 6020B	2467119
92781919017	**YAT-PZ-51**	3015	2467119	EPA 6020B	2467119
92781919018	**YAT-PZ-55**	3015	2467119	EPA 6020B	2467119
92781919019	**YAT-PZ-54D**	3015	2467119	EPA 6020B	2467119
92781919020	**YAT-YGWC-23S**	3015	2467119	EPA 6020B	2467119
92781919021	**YAT-YAMW-5**	3015	2467119	EPA 6020B	2467119
92781919022	**YAT-PZ-37**	3015	2467119	EPA 6020B	2467119
92781919023	**YAT-PZ-37D**	3015	2467119	EPA 6020B	2467119
92781919024	**YAT-PZ-52D**	3015	2467119	EPA 6020B	2467119
92781919025	**YAT-YGWC-24SB**	3015	2473932	EPA 6020B	2473932
92781919026	**YAT-AMA-R6-EB-1**	3015	2473932	EPA 6020B	2473932
92781919027	**YAT-AMA-R6-FB-1**	3015	2473932	EPA 6020B	2473932
92781919028	**YAT-AMA-R6-FD-1**	3015	2473932	EPA 6020B	2473932
92781919001	**YAT-PZ-35**	EPA 7470A	919472	EPA 7470A	919511
92781919002	**YAT-YGWC-50**	EPA 7470A	919472	EPA 7470A	919511
92781919003	**YAT-YAMW-1**	EPA 7470A	919472	EPA 7470A	919511
92781919004	**YAT-AMA-R6-FD-1**	EPA 7470A	919472	EPA 7470A	919511
92781919005	**YAT-YGWC-36A**	EPA 7470A	919472	EPA 7470A	919511
92781919006	**YAT-YGWC-49**	EPA 7470A	919472	EPA 7470A	919511
92781919007	**YAT-YGWC-38**	EPA 7470A	919472	EPA 7470A	919511
92781919008	**YAT-YGWC-41**	EPA 7470A	919472	EPA 7470A	919511
92781919009	**YAT-YGWC-42**	EPA 7470A	919472	EPA 7470A	919511
92781919010	**YAT-YAMW-2**	EPA 7470A	919472	EPA 7470A	919511
92781919011	**YAT-YAMW-3**	EPA 7470A	919472	EPA 7470A	919511
92781919012	**YAT-YAMW-4**	EPA 7470A	919472	EPA 7470A	919511
92781919013	**YAT-AMA-R6-EB-1**	EPA 7470A	919472	EPA 7470A	919511
92781919014	**YAT-AMA-R6-FB-1**	EPA 7470A	919472	EPA 7470A	919511
92781919015	**YAT-AMA-R6-FD-2**	EPA 7470A	919472	EPA 7470A	919511
92781919016	**YAT-YGWC-43**	EPA 7470A	919472	EPA 7470A	919511
92781919017	**YAT-PZ-51**	EPA 7470A	919472	EPA 7470A	919511
92781919018	**YAT-PZ-55**	EPA 7470A	919472	EPA 7470A	919511
92781919019	**YAT-PZ-54D**	EPA 7470A	919472	EPA 7470A	919511

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92781919020	**YAT-YGWC-23S**	EPA 7470A	919472	EPA 7470A	919511
92781919021	**YAT-YAMW-5**	EPA 7470A	919473	EPA 7470A	919512
92781919022	**YAT-PZ-37**	EPA 7470A	919473	EPA 7470A	919512
92781919023	**YAT-PZ-37D**	EPA 7470A	919473	EPA 7470A	919512
92781919024	**YAT-PZ-52D**	EPA 7470A	919473	EPA 7470A	919512
92781919001	**YAT-PZ-35**	SM 2320B-2011	919795		
92781919002	**YAT-YGWC-50**	SM 2320B-2011	920108		
92781919003	**YAT-YAMW-1**	SM 2320B-2011	920108		
92781919004	**YAT-AMA-R6-FD-1**	SM 2320B-2011	920108		
92781919005	**YAT-YGWC-36A**	SM 2320B-2011	920108		
92781919006	**YAT-YGWC-49**	SM 2320B-2011	920108		
92781919007	**YAT-YGWC-38**	SM 2320B-2011	920108		
92781919008	**YAT-YGWC-41**	SM 2320B-2011	920108		
92781919009	**YAT-YGWC-42**	SM 2320B-2011	920108		
92781919010	**YAT-YAMW-2**	SM 2320B-2011	920108		
92781919011	**YAT-YAMW-3**	SM 2320B-2011	920108		
92781919012	**YAT-YAMW-4**	SM 2320B-2011	920471		
92781919013	**YAT-AMA-R6-EB-1**	SM 2320B-2011	920471		
92781919014	**YAT-AMA-R6-FB-1**	SM 2320B-2011	920471		
92781919015	**YAT-AMA-R6-FD-2**	SM 2320B-2011	920471		
92781919016	**YAT-YGWC-43**	SM 2320B-2011	920556		
92781919017	**YAT-PZ-51**	SM 2320B-2011	920556		
92781919018	**YAT-PZ-55**	SM 2320B-2011	920556		
92781919019	**YAT-PZ-54D**	SM 2320B-2011	920888		
92781919020	**YAT-YGWC-23S**	SM 2320B-2011	920556		
92781919021	**YAT-YAMW-5**	SM 2320B-2011	920556		
92781919022	**YAT-PZ-37**	SM 2320B-2011	920556		
92781919023	**YAT-PZ-37D**	SM 2320B-2011	920556		
92781919024	**YAT-PZ-52D**	SM 2320B-2011	920556		
92781919025	**YAT-YGWC-24SB**	SM 2320B-2011	923601		
92781919026	**YAT-AMA-R6-EB-1**	SM 2320B-2011	923601		
92781919027	**YAT-AMA-R6-FB-1**	SM 2320B-2011	923601		
92781919028	**YAT-AMA-R6-FD-1**	SM 2320B-2011	923601		
92781919001	**YAT-PZ-35**	SM 2540C-2015	919710		
92781919002	**YAT-YGWC-50**	SM 2540C-2015	919958		
92781919003	**YAT-YAMW-1**	SM 2540C-2015	919958		
92781919004	**YAT-AMA-R6-FD-1**	SM 2540C-2015	919958		
92781919005	**YAT-YGWC-36A**	SM 2540C-2015	919958		
92781919006	**YAT-YGWC-49**	SM 2540C-2015	919958		
92781919007	**YAT-YGWC-38**	SM 2540C-2015	919958		
92781919008	**YAT-YGWC-41**	SM 2540C-2015	919958		
92781919009	**YAT-YGWC-42**	SM 2540C-2015	919958		
92781919010	**YAT-YAMW-2**	SM 2540C-2015	919958		
92781919011	**YAT-YAMW-3**	SM 2540C-2015	919958		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92781919012	**YAT-YAMW-4**	SM 2540C-2015	919958		
92781919013	**YAT-AMA-R6-EB-1**	SM 2540C-2015	919958		
92781919014	**YAT-AMA-R6-FB-1**	SM 2540C-2015	919958		
92781919015	**YAT-AMA-R6-FD-2**	SM 2540C-2015	919958		
92781919016	**YAT-YGWC-43**	SM 2540C-2015	919962		
92781919017	**YAT-PZ-51**	SM 2540C-2015	919962		
92781919018	**YAT-PZ-55**	SM 2540C-2015	919962		
92781919019	**YAT-PZ-54D**	SM 2540C-2015	919962		
92781919020	**YAT-YGWC-23S**	SM 2540C-2015	920258		
92781919021	**YAT-YAMW-5**	SM 2540C-2015	920258		
92781919022	**YAT-PZ-37**	SM 2540C-2015	920258		
92781919023	**YAT-PZ-37D**	SM 2540C-2015	920258		
92781919024	**YAT-PZ-52D**	SM 2540C-2015	920258		
92781919025	**YAT-YGWC-24SB**	SM 2540C-2015	923953		
92781919026	**YAT-AMA-R6-EB-1**	SM 2540C-2015	924011		
92781919027	**YAT-AMA-R6-FB-1**	SM 2540C-2015	924011		
92781919028	**YAT-AMA-R6-FD-1**	SM 2540C-2015	924011		
92781919001	**YAT-PZ-35**	EPA 300.0 Rev 2.1 1993	919137		
92781919002	**YAT-YGWC-50**	EPA 300.0 Rev 2.1 1993	919450		
92781919003	**YAT-YAMW-1**	EPA 300.0 Rev 2.1 1993	919450		
92781919004	**YAT-AMA-R6-FD-1**	EPA 300.0 Rev 2.1 1993	919450		
92781919005	**YAT-YGWC-36A**	EPA 300.0 Rev 2.1 1993	919450		
92781919006	**YAT-YGWC-49**	EPA 300.0 Rev 2.1 1993	919450		
92781919007	**YAT-YGWC-38**	EPA 300.0 Rev 2.1 1993	919450		
92781919008	**YAT-YGWC-41**	EPA 300.0 Rev 2.1 1993	919450		
92781919009	**YAT-YGWC-42**	EPA 300.0 Rev 2.1 1993	919450		
92781919010	**YAT-YAMW-2**	EPA 300.0 Rev 2.1 1993	919450		
92781919011	**YAT-YAMW-3**	EPA 300.0 Rev 2.1 1993	919450		
92781919012	**YAT-YAMW-4**	EPA 300.0 Rev 2.1 1993	919450		
92781919013	**YAT-AMA-R6-EB-1**	EPA 300.0 Rev 2.1 1993	919450		
92781919014	**YAT-AMA-R6-FB-1**	EPA 300.0 Rev 2.1 1993	919451		
92781919015	**YAT-AMA-R6-FD-2**	EPA 300.0 Rev 2.1 1993	919451		
92781919016	**YAT-YGWC-43**	EPA 300.0 Rev 2.1 1993	919451		
92781919017	**YAT-PZ-51**	EPA 300.0 Rev 2.1 1993	919451		
92781919018	**YAT-PZ-55**	EPA 300.0 Rev 2.1 1993	919451		
92781919019	**YAT-PZ-54D**	EPA 300.0 Rev 2.1 1993	919451		
92781919020	**YAT-YGWC-23S**	EPA 300.0 Rev 2.1 1993	919451		
92781919021	**YAT-YAMW-5**	EPA 300.0 Rev 2.1 1993	919454		
92781919022	**YAT-PZ-37**	EPA 300.0 Rev 2.1 1993	919454		
92781919023	**YAT-PZ-37D**	EPA 300.0 Rev 2.1 1993	919454		
92781919024	**YAT-PZ-52D**	EPA 300.0 Rev 2.1 1993	919454		
92781919025	**YAT-YGWC-24SB**	EPA 300.0 Rev 2.1 1993	923462		
92781919026	**YAT-AMA-R6-EB-1**	EPA 300.0 Rev 2.1 1993	923462		
92781919027	**YAT-AMA-R6-FB-1**	EPA 300.0 Rev 2.1 1993	923462		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92781919

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92781919028	**YAT-AMA-R6-FD-1**	EPA 300.0 Rev 2.1 1993	923462		
92781919001	**YAT-PZ-35**	EPA 3005A	923431	EPA 6020B	924138
92781919002	**YAT-YGWC-50**	EPA 3005A	922647	EPA 6020B	923616
92781919003	**YAT-YAMW-1**	EPA 3005A	922647	EPA 6020B	923616
92781919004	**YAT-AMA-R6-FD-1**	EPA 3005A	922647	EPA 6020B	923616
92781919005	**YAT-YGWC-36A**	EPA 3005A	922647	EPA 6020B	923616
92781919006	**YAT-YGWC-49**	EPA 3005A	922647	EPA 6020B	923616
92781919007	**YAT-YGWC-38**	EPA 3005A	922647	EPA 6020B	923616
92781919008	**YAT-YGWC-41**	EPA 3005A	922647	EPA 6020B	923616
92781919009	**YAT-YGWC-42**	EPA 3005A	922647	EPA 6020B	923616
92781919010	**YAT-YAMW-2**	EPA 3005A	922647	EPA 6020B	923616
92781919011	**YAT-YAMW-3**	EPA 3005A	922647	EPA 6020B	923616
92781919012	**YAT-YAMW-4**	EPA 3005A	922647	EPA 6020B	923616
92781919013	**YAT-AMA-R6-EB-1**	EPA 3005A	922647	EPA 6020B	923616
92781919014	**YAT-AMA-R6-FB-1**	EPA 3005A	922647	EPA 6020B	923616
92781919015	**YAT-AMA-R6-FD-2**	EPA 3005A	922647	EPA 6020B	923616
92781919016	**YAT-YGWC-43**	EPA 3005A	922647	EPA 6020B	923616
92781919017	**YAT-PZ-51**	EPA 3005A	922647	EPA 6020B	923616
92781919018	**YAT-PZ-55**	EPA 3005A	922647	EPA 6020B	923616
92781919019	**YAT-PZ-54D**	EPA 3005A	922647	EPA 6020B	923616
92781919020	**YAT-YGWC-23S**	EPA 3005A	922647	EPA 6020B	923616
92781919021	**YAT-YAMW-5**	EPA 3005A	922647	EPA 6020B	923616
92781919022	**YAT-PZ-37**	EPA 3005A	922648	EPA 6020B	924780
92781919023	**YAT-PZ-37D**	EPA 3005A	922648	EPA 6020B	924780
92781919024	**YAT-PZ-52D**	EPA 3005A	922648	EPA 6020B	924780
92781919025	**YAT-YGWC-24SB**	EPA 3005A	927417	EPA 6020B	927809
92781919026	**YAT-AMA-R6-EB-1**	EPA 3005A	927417	EPA 6020B	927809
92781919027	**YAT-AMA-R6-FB-1**	EPA 3005A	927417	EPA 6020B	927809
92781919028	**YAT-AMA-R6-FD-1**	EPA 3005A	927417	EPA 6020B	927809
92781919025	**YAT-YGWC-24SB**	EPA 7470A	926644	EPA 7470A	926908
92781919026	**YAT-AMA-R6-EB-1**	EPA 7470A	926644	EPA 7470A	926908
92781919027	**YAT-AMA-R6-FB-1**	EPA 7470A	926644	EPA 7470A	926908
92781919028	**YAT-AMA-R6-FD-1**	EPA 7470A	926644	EPA 7470A	926908

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

Effective Date: 05/24/2024

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

WO# : 92781919

92781919

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

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

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

Date/Initials Person Examining Contents: 2/26/25 (JM)

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

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

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

Cooler Temp: 1.1 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): 1.2

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

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Pace

DC#_Title: ENV-FRM-...

Effective Date: 05/24/2024

WO#: 92781919

PM: BV Due Date: 03/12/25

CLIENT: 92-GP-Yates

Project #

*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

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

Client_____ Profile/EZ (Circle one)_____ Notes_____

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)	BP1N	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-)	VSGU-20 mL Scintillation vials (N/A)	40 mL Amber Unpreserved vials (N/A)
CC																														
1		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.

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

92781919

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202551	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', R6		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected: [ ]AK [ ]PT [ ]MT [ ]CT [X]ET		County / State origin of sample(s):	Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [✓] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment
YAT-YAMW-2	WG	G						7		X	X	X	X	X	See Remarks
YAT-YAMW-3	WG	G						7		X	X	X	X	X	See Remarks
YAT-YAMW-4	WG	G						7		X	X	X	X	X	See Remarks
YAT-YAMW-5	WG	G						7		X	X	X	X	X	See Remarks
YAT-PZ-37	WG	G						7		X	X	X	X	X	See Remarks
YAT-PZ-35	WG	G	2/25/25	1758	—	—		7		X	X	X	X	X	See Remarks OU1
YAT-PZ-37D	WG	G						7		X	X	X	X	X	See Remarks
YAT-PZ-51	WG	G						7		X	X	X	X	X	See Remarks
YAT-PZ-52D	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWC-50	WG	G						7		X	X	X	X	X	See Remarks

Lab Use Only: Proj. Mgr: Bennie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - KIM LAPSZYNSKI
Signature: (Arcadis) -

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature) ARCADIS	2/26/25 1143	Received by/Company: (Signature) Ryan Williams / Pace	2/26/25 1143
Relinquished by/Company: (Signature) Ryan Williams / Pace	2/26/25 1355	Received by/Company: (Signature)	2/26/25 1355
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

Page: 1 of 1

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v01_082123 ©

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

Effective Date: 05/24/2024

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

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

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

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

Date/Initials Person Examining Contents: 2/22/25 EDH

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: 2.3 Correction Factor: Add/Subtract (°C) 0.0

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

Cooler Temp Corrected (°C): 2.3

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

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

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

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

*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 #

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

Client_____ Profile/EZ (Circle one)_____ Notes_____

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-)	VSGU-20 mL Scintillation vials (N/A)	DG0U-40 mL Amber Unpreserved vials (N/A)
CC																													
1		2	1		2		2																						
2		2	1		2		2																						
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12		2	1		2		2																						

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-HUNT-0083 v03_Sample...

Effective Date: 05/24/2024

*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 #

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

Client_____ Profile/EZ (Circle one)_____ Notes_____

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 (NH4)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)
CC																														
1		2	1		2		2																							
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10		2	1		2		2																							
11		2	1		2		2																							
12		2	1		2		2																							

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.

Qualtrax ID: 69614

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

Effective Date: 05/24/2024

*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 #

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

Client_____ Profile/EZ (Circle one)_____ Notes_____

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)	YSI/IN	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)	DG9T-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 (NH4)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)
CC																														
1		2	1		2		2																							
2		2	1		2		2																							
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12																														

pH Adjustment Log for Preserved Samples

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

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

Qualtrax ID: 69614

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

92781919

Scan QR Code for Instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202551	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', R6		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET		County / State origin of sample(s):	Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other_____

Regulatory Program (DW, NCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____
Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [ ] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3
Identify Container Preservative Type***: 2 1 1 2 1
Analysis Requested

**Container Size: (1) 1L, (2) 500ml, (3) 250ml, (4) 125ml, (5) 100ml, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment	Preservation non-conformance identified for sample:
YAT-YAMW-2	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YAMW-3	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YAMW-4	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YAMW-5	WG	G						7		X	X	X	X	X	See Remarks	
YAT-PZ-37	WG	G						7		X	X	X	X	X	See Remarks	
YAT-PZ-35	WG	G						7		X	X	X	X	X	See Remarks	
YAT-PZ-37D	WG	G						7		X	X	X	X	X	See Remarks	
YAT-PZ-51	WG	G						7		X	X	X	X	X	See Remarks	
YAT-PZ-52D	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWC-50	WG	G	2/26/25	1520	—	—		7		X	X	X	X	X	See Remarks 002	

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - KIM LAPSZYNSKI
Signature: (Arcadis) -

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
/ARCADIS	2/27/25 0830	/Arcadis	2/27/25 0830
/Arcadis	2/27/25 1005	/Pace	2/27/25 1005
/Pace	2/27/25 1340		2/27/25 1340

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v01_082123 ©

Pace® Location Requested (City/State): Pace Analytical Charlotte, 9800 Kincey Ave., Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308
Contact/Report To:	Trey Singleton
Phone #:	205.346.3317
E-Mail:	rosingle@southernco.com
Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2025S1
Project Name:	Georgia Power Yates
Site Collection Info/Facility ID (as applicable):	YAT AP-3, A, B/B', R6
Invoice To:	
Invoice E-Mail:	
Purchase Order # (if applicable):	GPC82474-0002
Quote #:	
Time Zone Collected:	[ ] AK [ ] PT [ ] MT [ ] CT [X] ET
County / State origin of sample(s):	Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [✓] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT). Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size: ** — 3 3 2 1 3

Identify Container Preservative Type*** — 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) Na2SO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM 2320B)	Sample Comment
YAT-YGWC-23S	WG	G						7		X	X	X	X	X	See Remarks
YAT-YAMW-1	WG	G	2/26/25	1031	—	—		7		X	X	X	X	X	See Remarks 003
YAT-AMA-R6-FD-1	WG	G	2/26/25	—	—	—		7		X	X	X	X	X	See Remarks 004
YAT-YGWC-36A	WG	G	2/26/25	1205	—	—		7		X	X	X	X	X	See Remarks 005
YAT-YGWC-49	WG	G	2/26/25	0935	—	—		7		X	X	X	X	X	See Remarks 006
YAT-YGWC-38	WG	G	2/26/25	1720	—	—		7		X	X	X	X	X	See Remarks 007
YAT-YGWC-24SB	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWC-41	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWC-42	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWC-43	WG	G						7		X	X	X	X	X	See Remarks

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample:

Customer Remarks / Special Conditions / Possible Hazards:

App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg,
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate and bicarbonate

Collected By:
Printed Name: (Arcadis) - KIM KAPSZYNSKI
Signature: (Arcadis) -

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time: 2/27/25 0830	Received by/Company: (Signature)	Date/Time: 2/27/25 0830	Tracking Number:
Relinquished by/Company: (Signature)	Date/Time: 2/27/25 1005	Received by/Company: (Signature)	Date/Time: 2/27/25 1005	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time: 2/27/25 1340	Received by/Company: (Signature)	Date/Time: 2/27/25 1340	Page: of
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)		

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ENV-FRM-CORQ-0019_v01_082123 ©

Pace® Location Requested (City/State): Pace Analytical Charlotte, 9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

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LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202551	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', R6		Purchase Order # (if applicable):	GPCB2474-0002
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET		County / State origin of sample(s):	Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment
YAT-YGWC-23S	WG	G						7		X	X	X	X	X	See Remarks
YAT-YAMW-1	WG	G						7		X	X	X	X	X	See Remarks
YAT-AMA-R6-FD-1	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWC-36A	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWC-49	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWC-38	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWC-24SB	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWC-41	WG	G	2/26/25	1732	—			7		X	X	X	X	X	See Remarks 008
YAT-YGWC-42	WG	G	2/26/25	1210	—			7		X	X	X	X	X	See Remarks 009
YAT-YGWC-43	WG	G						7		X	X	X	X	X	See Remarks

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample:

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Na, K, Mg: For Alkalinity: report total, carbonate, and bicarbonate

Collected By
Printed Name: (Arcadis) Jessica Work
Signature: (Arcadis)

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

	Date/Time		Date/Time
Relinquished by/Company: (Signature) Arcadis	2/27/25 1005	Received by/Company: (Signature) Ryan Williams / Pace	2/27/25 1005
Relinquished by/Company: (Signature) Ryan Williams / Pace	2/27/25 1340	Received by/Company: (Signature)	2/27/25 1340
Relinquished by/Company: (Signature)		Received by/Company: (Signature)	
Relinquished by/Company: (Signature)		Received by/Company: (Signature)	

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other

Page: of

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ENV-FRM-CORQ-0019_v01_082123

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave., Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.846.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202SS1	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', R6		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment	Preservation non-conformance identified for sample
YAT-YAMW-2	WG	G	2/26/25	1438				7		X	X	X	X	X	See Remarks 010	
YAT-YAMW-3	WG	G	2/26/25	1001				7		X	X	X	X	X	See Remarks 011	
YAT-YAMW-4	WG	G	2/26/25	1552				7		X	X	X	X	X	See Remarks 012	
YAT-YAMW-5	WG	G						7		X	X	X	X	X	See Remarks	
YAT-PZ-37	WG	G						7		X	X	X	X	X	See Remarks	
YAT-PZ-35	WG	G						7		X	X	X	X	X	See Remarks	
YAT-PZ-37D	WG	G						7		X	X	X	X	X	See Remarks	
YAT-PZ-51	WG	G						7		X	X	X	X	X	See Remarks	
YAT-PZ-52D	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWC-50	WG	G						7		X	X	X	X	X	See Remarks	

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Na, K, Mg: For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) Jessica Ware
Signature: (Arcadis)

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature) Jessica Ware / Arcadis	Date/Time: 2/27/25 1005	Received by/Company: (Signature) Evan Williams / Pace	Date/Time: 2/27/25 1005	Tracking Number:
Relinquished by/Company: (Signature) Evan Williams / Pace	Date/Time: 2/27/25 1340	Received by/Company: (Signature) Charlie Hunt 2/27/25	Date/Time: 1340	Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

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Pace® Location Requested (City/State): Pace Analytical Charlotte, 9800 Kincey Ave., Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trev Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2025S1	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B, R6		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment
YAT-AMA-R6-EB-1	WG	G	2/26/25	1225	—	—		7		X	X	X	X	X	See Remarks 013
YAT-AMA-R6-FB-1	WG	G	2/26/25	1045	—	—		7		X	X	X	X	X	See Remarks 014
YAT-YGWC-24SB	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWC-PZ-55	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWC-PZ-54D	WG	G						7		X	X	X	X	X	See Remarks
YAT-AMA-R6-FD-2	WG	G	2/26/25	—	—	—		7		X	X	X	X	X	See Remarks 015

Lab Use Only: Proj. Mgr: Bonnie Vang; Acct.Num / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non conformance identified for sample:

Customer Remarks / Special Conditions / Possible Hazards:

App III Metals: 6020B: B, 6010D: Ca

App IV: Metals 6020B: Sb, As, Sa, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.

Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:

Printed Name: (Arcadis) - KIM LAPSZYNSKI

Signature: (Arcadis) -

Additional Instructions from Pace*:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Arcadis	2/27/25 0830	Jordan Q. Dora / Arcadis	2/27/25 0830
Jordan Q. Dora / Arcadis	2/27/25 1005	Ryan Williams / Pace	2/27/25 1005
Ryan Williams / Pace	2/27/25 1340		2/27/25 1340

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

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ENV-FRM-CORQ-0019_v01_082123 ©

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

Effective Date: 05/24/2024

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

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

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

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

Date/Initials Person Examining Contents: 2/25/25 ow

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: 4.5 Correction Factor: Add/Subtract (°C) 0

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

Cooler Temp Corrected (°C): 4.5

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

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

*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 #

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

Client GA Power Profile/EZ (Circle one)_____ Notes_____

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)	BP1N	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		2	1		2		2																							
2		2	1		2		2																							
3		2	1		2		2																							
4		2	1		2		2																							
5		2	1		2		2																							
6		2	1		2		2																							
7		2	1		2		2																							
8		2	1		2		2																							
9		2	1		2		2																							
10		2	1		2		2																							
11		2	1		2		2																							
12		2	1		2		2																							

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.

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave., Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

92781919

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202551	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/b', R6		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/9320	Alkalinity (SM2320B)	Sample Comment	Preservation non-conformance identified for sample
YAT-YGWC-23S	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YAMW-1	WG	G						7		X	X	X	X	X	See Remarks	
YAT-AMA-R6-FD-1	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWC-36A	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWC-49	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWC-38	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWC-24SB	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWC-41	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWC-42	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWC-43	WG	G	2/27/25	1324	—	—		7		X	X	X	X	X	See Remarks 016	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and b carbonate

Collected By:
Printed Name: (Arcadis) - Jessica Ware
Signature: (Arcadis) - Jessica Ware

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Jessica Ware/Arcadis	2/27/25 1730	Tony Green/Arcadis	2/27/25 1730	
Tony Green/Arcadis	2/28/25 1100		2/28/25 1100	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
				Page: of

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Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

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Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202551	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', RB		Purchase Order # (if applicable):	GPCB2474-0002
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET		County / State origin of sample(s):	Georgia
Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other		Regulatory Program (DW, RCRA, etc.) as applicable:	
		Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other	DW PWSID # or WW Permit # as applicable:
		Date Results Requested:	Field Filtered (if applicable): [ ] Yes [X] No
			Analysis:

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only

Proj. Mgr: Bonnie Vang

AcctNum / Client ID:

Table #:

Profile / Template: 16561

Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/V Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment	Preservation non-conformance identified for sample.
YAT-YAMW-2	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YAMW-3	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YAMW-4	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YAMW-5	WG	G						7		X	X	X	X	X	See Remarks	
YAT-PZ-37	WG	G						7		X	X	X	X	X	See Remarks	
YAT-PZ-35	WG	G						7		X	X	X	X	X	See Remarks	
YAT-PZ-37D	WG	G						7		X	X	X	X	X	See Remarks	
YAT-PZ-51	WG	G	2/27/25	1418	—	—		7		X	X	X	X	X	See Remarks 017	
YAT-PZ-52D	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWC-50	WG	G						7		X	X	X	X	X	See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl 7040A: Hg
Additional metals (6010D): Na, K, Mg: For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) Jessica Ware
Signature: (Arcadis) Jessica Ware

Additional Instructions from Pace®:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Jessica Ware (Arcadis)	2/27/25 1730	Amy Brun /Arcadis	2/27/25 1730	
Amy Brun /Arcadis	2/28/25 1100		2/28/25 1100	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

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		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202551	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', R6		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET		County / State origin of sample(s):	Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQuIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment	Preservation non-conformance identified for sample
YAT-AMA-R6-EB-1	WG	G						7		X	X	X	X	X	See Remarks	
YAT-AMA-R6-FB-1	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWC-24SB	WG	G						7		X	X	X	X	X	See Remarks	
YAT ~~YGWC~~-PZ-55 YAT-PZ-55	WG	G	2/27/25	1106	—	—		7		X	X	X	X	X	See Remarks 018	
YAT-YGWC-PZ-54D	WG	G						7		X	X	X	X	X	See Remarks	
YAT-AMA-R6-FD-2	WG	G						7		X	X	X	X	X	See Remarks	

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Na, K, Mg: For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) Jessica Ware
Signature: (Arcadis)

Additional instructions from Pace®:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Jessica Ware/Arcadis	2/27/25 1730	Pug Shan /Arcadis	2/27/25 1730	
Pug Shan /Arcadis	2/28/25 1100		2/28/25 1100	Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

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Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT AP-3, A, B/B', R6	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected:	[ ] AK [ ] PT [ ] MT [ ] CT [X] ET	County / State origin of sample(s):	Georgia
Data Deliverables:	[X] Level II [ ] Level III [ ] Level IV; [X] EQUIS; [ ] Other	Regulatory Program (DW, RCRA, etc.) as applicable:	
		Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other	DW PWSID # or WW Permit # as applicable:
		Date Results Requested:	Field Filtered (if applicable): [ ] Yes [ ] No; Analysis:

Specify Container Size **: 3 3 2 1 3
Identify Container Preservative Type***: 2 1 1 2 1
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

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Customer Sample ID	Matrix *	Comp / Grab	Collected (for Composite Start) Date	Collected (for Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment	Preservation non-conformance identified for sample
YAT-AMA-R6-EB-1	WG	G						7		X	X	X	X	X	See Remarks	
YAT-AMA-R6-FB-1	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWC-24SB	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWC-PZ-55	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWC-PZ-54D	WG	G	2/27	1300	—	—	—	7		X	X	X	X	X	See Remarks 019	
YAT-AMA-R6-FD-2	WG	G						7		X	X	X	X	X	See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) -
Signature: (Arcadis) -

Additional Instructions from Pace*:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Pam Bunn / Arcadis	2/28/25 1100		2/28/25 1100	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In-Person [ ] Courier
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	[ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

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Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', R6		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

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Date Results Requested:

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Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

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Proj. Mgr: Bonnie Vang

AcctNum / Client ID:

Table #:

Profile / Template: 16561

Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample

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YAT-YGWC-23S	WG	G	2/27/25	1610	—	—		7		X	X	X	X	X	See Remarks 020	
YAT-YAMW-1	WG	G						7		X	X	X	X	X	See Remarks	
YAT-AMA-R6-FD-1	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWC-36A	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWC-49	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWC-38	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWC-24SB	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWC-41	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWC-42	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWC-43	WG	G						7		X	X	X	X	X	See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:

App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - KIM LAPSZYNSKI
Signature: (Arcadis) -

Additional Instructions from Pace®:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time: 2/27/25 1700	Received by/Company: (Signature) /Arcadis	Date/Time: 2/27/25 1700	Tracking Number:
Relinquished by/Company: (Signature) /Arcadis	Date/Time: 2/28/25 1100	Received by/Company: (Signature)	Date/Time: 2/28/25 1100	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
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		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202551	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', RG		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [✓] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only — Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Preloc / Bottle Ord. ID:

Preservation non-conformance identified for sample

Customer Sample ID	Matrix*	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment
YAT-YAMW-2	WG	G						7		X	X	X	X	X	See Remarks
YAT-YAMW-3	WG	G						7		X	X	X	X	X	See Remarks
YAT-YAMW-4	WG	G						7		X	X	X	X	X	See Remarks
YAT-YAMW-5	WG	G	2/27/25	1457	—	—		7		X	X	X	X	X	See Remarks 021
YAT-PZ-37	WG	G	2/27/25	1352	—	—		7		X	X	X	X	X	See Remarks 022
YAT-PZ-35	WG	G						7		X	X	X	X	X	See Remarks
YAT-PZ-37D	WG	G	2/27/25	1231	—	—		7		X	X	X	X	X	See Remarks 023
YAT-PZ-51	WG	G						7		X	X	X	X	X	See Remarks
YAT-PZ-52D	WG	G	2/27/25	1027	—	—		7		X	X	X	X	X	See Remarks 024
YAT-YGWC-50	WG	G						7		X	X	X	X	X	See Remarks

Customer Remarks / Special Conditions / Possible Hazards:

App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Na, K. Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - KIM LAPSZYNSKI
Signature: (Arcadis) -

Additional Instructions from Pace®:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
/ARCADIS	2/27/25 1700	/Arcadis	2/27/25 1700	
/Arcadis	2/28/25 1100		2/28/25 1100	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
				Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORO-0019_v01_082123 ©

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

Effective Date: 05/24/2024

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

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

WO#: 92781919

PM: BV Due Date: 03/12/25

CLIENT: 92-GP-Yates

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

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

Date/Initials Person Examining Contents: 3/18/25 CA

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

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

Thermometer: ☑ IR Gun ID: 083

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.5 **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): 4.6

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

WO#: 92781919

PM: BV Due Date: 03/12/25

CLIENT: 92-GP-Yates

*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 #

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

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)		BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		2	1																											
2		2	1																											
3		2	1																											
4		2	1																											
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

pH Adjustment Log for Preserved Samples

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

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

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

9278191 9

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2025S1	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A-3/B', R6		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample.

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. CL2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment
YAT-YGWC-24SB	WG	G	03/17/25	1445	—	—		7		X	X	X	X	X	See Remarks 025
YAT-AMA-R6-EB-1	WG	G	03/17/25	1135	—	—		7		X	X	X	X	X	See Remarks 026
YAT-AMA-R6-FB-1	WG	G	03/17/25	1515	—	—		7		X	X	X	X	X	See Remarks 027
YAT-AMA-R6-FD-1	WG	G	03/17/25	—	—	—		7		X	X	X	X	X	See Remarks 028

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) David Prouty
Signature: (Arcadis)

Additional Instructions from Pace®:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time: 03/18/25 1153	Received by/Company: (Signature)	Date/Time: 3/18/25 1153	Tracking Number:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In- Person [ ] Courier
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	[ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

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

April 10, 2025

Trey Singleton
Southern Company
241 Ralp McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: YAT AP-3, A, B/B', R6-RADs
Pace Project No.: 92781920

Dear Trey Singleton:

Enclosed are the analytical results for sample(s) received by the laboratory between February 26, 2025 and March 18, 2025. 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

Revision 1: Sample ID updated for YAT-PZ-54D.

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

Sincerely,

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

Enclosures

cc: Geoffrey Gay, Arcadis-ATL
Laura Midkiff, Southern Company
Alex Simpson, Arcadis
Jessica Ware, Arcadis
Albert Zumbuhl, Arcadis

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

CERTIFICATIONS

Project: YAT AP-3, A, B/B', R6-RADs
Pace Project No.: 92781920

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
ANABISO/IEC 17025:2017 Rad Cert#: L24170
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 2950
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA010
Louisiana DEQ/TNI Certification #: 04086
Maine Certification #: 2023021
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 #: PA014572023-03
New Hampshire/TNI Certification #: 297622
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 #: PA200002-015
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN02867
Texas/TNI Certification #: T104704188-22-18
Utah/TNI Certification #: PA014572223-14
USDA Soil Permit #: 525-23-67-77263
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

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Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: YAT AP-3, A, B/B', R6-RADs
Pace Project No.: 92781920

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92781920001	**YAT-PZ-35**	Water	02/25/25 17:58	02/26/25 13:55
92781920002	**YAT-YGWC-50**	Water	02/26/25 15:20	02/27/25 13:40
92781920003	**YAT-YAMW-1**	Water	02/26/25 10:31	02/27/25 13:40
92781920004	**YAT-AMA-R6-FD-1**	Water	02/26/25 00:00	02/27/25 13:40
92781920005	**YAT-YGWC-36A**	Water	02/26/25 12:05	02/27/25 13:40
92781920006	**YAT-YGWC-49**	Water	02/26/25 09:35	02/27/25 13:40
92781920007	**YAT-YGWC-38**	Water	02/26/25 17:20	02/27/25 13:40
92781920008	**YAT-YGWC-41**	Water	02/26/25 17:32	02/27/25 13:40
92781920009	**YAT-YGWC-42**	Water	02/26/25 12:10	02/27/25 13:40
92781920010	**YAT-YAMW-2**	Water	02/26/25 14:38	02/27/25 13:40
92781920011	**YAT-YAMW-3**	Water	02/26/25 10:01	02/27/25 13:40
92781920012	**YAT-YAMW-4**	Water	02/26/25 15:52	02/27/25 13:40
92781920013	**YAT-AMA-R6-EB-1**	Water	02/26/25 12:25	02/27/25 13:40
92781920014	**YAT-AMA-R6-FB-1**	Water	02/26/25 10:45	02/27/25 13:40
92781920015	**YAT-AMA-R6-FD-2**	Water	02/26/25 00:00	02/27/25 13:40
92781920016	**YAT-YGWC-43**	Water	02/27/25 13:24	02/28/25 11:00
92781920017	**YAT-PZ-51**	Water	02/27/25 14:18	02/28/25 11:00
92781920018	**YAT-PZ-55**	Water	02/27/25 11:06	02/28/25 11:00
92781920019	**YAT-PZ-54D**	Water	02/27/25 13:00	02/28/25 11:00
92781920020	**YAT-YGWC-23S**	Water	02/27/25 16:10	02/28/25 11:00
92781920021	**YAT-YAMW-5**	Water	02/27/25 14:57	02/28/25 11:00
92781920022	**YAT-PZ-37**	Water	02/27/25 13:52	02/28/25 11:00
92781920023	**YAT-PZ-37D**	Water	02/27/25 12:31	02/28/25 11:00
92781920024	**YAT-PZ-52D**	Water	02/27/25 10:27	02/28/25 11:00
92781920025	**YAT-YGWC-24SB**	Water	03/17/25 14:45	03/18/25 11:53
92781920026	**YAT-AMA-R6-EB-1**	Water	03/17/25 11:35	03/18/25 11:53
92781920027	**YAT-AMA-R6-FB-1**	Water	03/17/25 15:15	03/18/25 11:53
92781920028	**YAT-AMA-R6-FD-1**	Water	03/17/25 00:00	03/18/25 11:53

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: YAT AP-3, A, B/B', R6-RADs
Pace Project No.: 92781920

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92781920001	**YAT-PZ-35**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781920002	**YAT-YGWC-50**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781920003	**YAT-YAMW-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781920004	**YAT-AMA-R6-FD-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781920005	**YAT-YGWC-36A**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781920006	**YAT-YGWC-49**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781920007	**YAT-YGWC-38**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781920008	**YAT-YGWC-41**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781920009	**YAT-YGWC-42**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781920010	**YAT-YAMW-2**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781920011	**YAT-YAMW-3**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781920012	**YAT-YAMW-4**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781920013	**YAT-AMA-R6-EB-1**	EPA 9315	SLC	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: YAT AP-3, A, B/B', R6-RADs
Pace Project No.: 92781920

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781920014	**YAT-AMA-R6-FB-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781920015	**YAT-AMA-R6-FD-2**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781920016	**YAT-YGWC-43**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781920017	**YAT-PZ-51**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781920018	**YAT-PZ-55**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781920019	**YAT-PZ-54D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781920020	**YAT-YGWC-23S**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781920021	**YAT-YAMW-5**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781920022	**YAT-PZ-37**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781920023	**YAT-PZ-37D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781920024	**YAT-PZ-52D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781920025	**YAT-YGWC-24SB**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: YAT AP-3, A, B/B', R6-RADs
Pace Project No.: 92781920

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		Total Radium Calculation	JAL	1	PASI-PA
92781920026	**YAT-AMA-R6-EB-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781920027	**YAT-AMA-R6-FB-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781920028	**YAT-AMA-R6-FD-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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SUMMARY OF DETECTION

Project: YAT AP-3, A, B/B', R6-RADs
Pace Project No.: 92781920

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92781920001	**YAT-PZ-35**					
EPA 9315	Radium-226	0.339U ± 0.220 (0.417) C:92% T:NA	pCi/L		03/19/25 15:21	
EPA 9320	Radium-228	0.468U ± 0.445 (0.907) C:80% T:66%	pCi/L		03/19/25 14:13	
Total Radium Calculation	Total Radium	0.807U ± 0.665 (1.32)	pCi/L		03/21/25 15:41	
92781920002	**YAT-YGWC-50**					
EPA 9315	Radium-226	0.0900U ± 0.119 (0.256) C:94% T:NA	pCi/L		03/20/25 15:24	
EPA 9320	Radium-228	0.939U ± 0.557 (1.05) C:76% T:79%	pCi/L		03/21/25 10:51	
Total Radium Calculation	Total Radium	1.03U ± 0.676 (1.31)	pCi/L		03/24/25 12:03	
92781920003	**YAT-YAMW-1**					
EPA 9315	Radium-226	0.235 ± 0.141 (0.231) C:90% T:NA	pCi/L		03/20/25 15:24	
EPA 9320	Radium-228	0.410U ± 0.384 (0.783) C:72% T:80%	pCi/L		03/26/25 12:08	
Total Radium Calculation	Total Radium	0.645U ± 0.525 (1.01)	pCi/L		03/27/25 15:10	
92781920004	**YAT-AMA-R6-FD-1**					
EPA 9315	Radium-226	0.133U ± 0.137 (0.283) C:91% T:NA	pCi/L		03/20/25 15:24	
EPA 9320	Radium-228	0.836 ± 0.441 (0.769) C:71% T:85%	pCi/L		03/21/25 14:18	
Total Radium Calculation	Total Radium	0.969U ± 0.578 (1.05)	pCi/L		03/24/25 12:03	

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SUMMARY OF DETECTION

Project: YAT AP-3, A, B/B', R6-RADs
Pace Project No.: 92781920

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92781920005	**YAT-YGWC-36A**					
EPA 9315	Radium-226	0.104U ± 0.149 (0.330) C:92% T:NA	pCi/L		03/20/25 15:26	
EPA 9320	Radium-228	0.403U ± 0.359 (0.720) C:70% T:92%	pCi/L		03/21/25 14:18	
Total Radium Calculation	Total Radium	0.507U ± 0.508 (1.05)	pCi/L		03/24/25 12:03	
92781920006	**YAT-YGWC-49**					
EPA 9315	Radium-226	0.140U ± 0.151 (0.314) C:85% T:NA	pCi/L		03/20/25 15:26	
EPA 9320	Radium-228	1.05 ± 0.463 (0.754) C:75% T:89%	pCi/L		03/21/25 14:18	
Total Radium Calculation	Total Radium	1.19 ± 0.614 (1.07)	pCi/L		03/24/25 12:03	
92781920007	**YAT-YGWC-38**					
EPA 9315	Radium-226	0.126U ± 0.121 (0.236) C:89% T:NA	pCi/L		03/20/25 15:29	
EPA 9320	Radium-228	0.799U ± 0.565 (1.12) C:74% T:86%	pCi/L		03/21/25 14:18	
Total Radium Calculation	Total Radium	0.925U ± 0.686 (1.36)	pCi/L		03/24/25 12:03	
92781920008	**YAT-YGWC-41**					
EPA 9315	Radium-226	0.111U ± 0.137 (0.293) C:91% T:NA	pCi/L		03/20/25 15:29	
EPA 9320	Radium-228	0.501U ± 0.512 (1.07) C:78% T:84%	pCi/L		03/21/25 14:18	
Total Radium Calculation	Total Radium	0.612U ± 0.649 (1.36)	pCi/L		03/24/25 12:03	

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SUMMARY OF DETECTION

Project: YAT AP-3, A, B/B', R6-RADs
Pace Project No.: 92781920

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92781920009	**YAT-YGWC-42**					
EPA 9315	Radium-226	0.307U ± 0.182 (0.308) C:92% T:NA	pCi/L		03/20/25 15:29	
EPA 9320	Radium-228	0.491U ± 0.376 (0.741) C:78% T:93%	pCi/L		03/21/25 14:18	
Total Radium Calculation	Total Radium	0.798U ± 0.558 (1.05)	pCi/L		03/24/25 12:03	
92781920010	**YAT-YAMW-2**					
EPA 9315	Radium-226	0.0371U ± 0.120 (0.289) C:93% T:NA	pCi/L		03/21/25 08:38	
EPA 9320	Radium-228	-0.00364U ± 0.302 (0.711) C:76% T:92%	pCi/L		03/21/25 14:18	
Total Radium Calculation	Total Radium	0.0371U ± 0.422 (1.000)	pCi/L		03/24/25 12:03	
92781920011	**YAT-YAMW-3**					
EPA 9315	Radium-226	0.890 ± 0.270 (0.278) C:91% T:NA	pCi/L		03/21/25 08:39	
EPA 9320	Radium-228	0.741 ± 0.384 (0.656) C:79% T:86%	pCi/L		03/21/25 14:18	
Total Radium Calculation	Total Radium	1.63 ± 0.654 (0.934)	pCi/L		03/24/25 12:03	
92781920012	**YAT-YAMW-4**					
EPA 9315	Radium-226	0.0720U ± 0.171 (0.398) C:96% T:NA	pCi/L		03/21/25 08:39	
EPA 9320	Radium-228	0.242U ± 0.381 (0.824) C:73% T:88%	pCi/L		03/21/25 14:18	
Total Radium Calculation	Total Radium	0.314U ± 0.552 (1.22)	pCi/L		03/24/25 12:03	

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SUMMARY OF DETECTION

Project: YAT AP-3, A, B/B', R6-RADs
Pace Project No.: 92781920

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92781920013	**YAT-AMA-R6-EB-1**					
EPA 9315	Radium-226	-0.101U ± 0.0929 (0.296) C:91% T:NA	pCi/L		03/21/25 11:25	
EPA 9320	Radium-228	0.257U ± 0.396 (0.856) C:67% T:92%	pCi/L		03/21/25 14:19	
Total Radium Calculation	Total Radium	0.257U ± 0.489 (1.15)	pCi/L		03/24/25 12:03	
92781920014	**YAT-AMA-R6-FB-1**					
EPA 9315	Radium-226	0.109U ± 0.110 (0.217) C:91% T:NA	pCi/L		03/21/25 11:27	
EPA 9320	Radium-228	0.300U ± 0.328 (0.682) C:76% T:94%	pCi/L		03/21/25 14:19	
Total Radium Calculation	Total Radium	0.409U ± 0.438 (0.899)	pCi/L		03/24/25 12:03	
92781920015	**YAT-AMA-R6-FD-2**					
EPA 9315	Radium-226	0.0924U ± 0.134 (0.296) C:94% T:NA	pCi/L		03/21/25 08:40	
EPA 9320	Radium-228	0.352U ± 0.368 (0.763) C:76% T:88%	pCi/L		03/21/25 14:19	
Total Radium Calculation	Total Radium	0.444U ± 0.502 (1.06)	pCi/L		03/24/25 12:03	
92781920016	**YAT-YGWC-43**					
EPA 9315	Radium-226	3.41 ± 0.670 (0.335) C:80% T:NA	pCi/L		03/21/25 08:40	
EPA 9320	Radium-228	1.14 ± 0.539 (0.956) C:79% T:95%	pCi/L		03/21/25 14:19	
Total Radium Calculation	Total Radium	4.55 ± 1.21 (1.29)	pCi/L		03/24/25 12:03	

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SUMMARY OF DETECTION

Project: YAT AP-3, A, B/B', R6-RADs
Pace Project No.: 92781920

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92781920017	**YAT-PZ-51**					
EPA 9315	Radium-226	0.326 ± 0.172 (0.285) C:95% T:NA	pCi/L		03/21/25 08:41	
EPA 9320	Radium-228	0.541U ± 0.488 (1.000) C:77% T:85%	pCi/L		03/21/25 14:19	
Total Radium Calculation	Total Radium	0.867U ± 0.660 (1.29)	pCi/L		03/24/25 12:03	
92781920018	**YAT-PZ-55**					
EPA 9315	Radium-226	0.151U ± 0.138 (0.275) C:91% T:NA	pCi/L		03/21/25 08:41	
EPA 9320	Radium-228	0.724U ± 0.525 (1.04) C:77% T:86%	pCi/L		03/21/25 14:19	
Total Radium Calculation	Total Radium	0.875U ± 0.663 (1.32)	pCi/L		03/24/25 12:03	
92781920019	**YAT-PZ-54D**					
EPA 9315	Radium-226	0.0850U ± 0.136 (0.305) C:90% T:NA	pCi/L		03/21/25 08:41	
EPA 9320	Radium-228	0.645U ± 0.512 (1.02) C:78% T:86%	pCi/L		03/21/25 14:19	
Total Radium Calculation	Total Radium	0.730U ± 0.648 (1.33)	pCi/L		03/24/25 12:03	
92781920020	**YAT-YGWC-23S**					
EPA 9315	Radium-226	0.310 ± 0.161 (0.234) C:78% T:NA	pCi/L		03/24/25 10:30	
EPA 9320	Radium-228	0.613U ± 0.449 (0.876) C:77% T:69%	pCi/L		03/26/25 12:08	
Total Radium Calculation	Total Radium	0.923U ± 0.610 (1.11)	pCi/L		03/27/25 15:10	

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SUMMARY OF DETECTION

Project: YAT AP-3, A, B/B', R6-RADs
Pace Project No.: 92781920

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92781920021	**YAT-YAMW-5**					
EPA 9315	Radium-226	0.392 ± 0.193 (0.282) C:71% T:NA	pCi/L		03/24/25 08:32	
EPA 9320	Radium-228	0.252U ± 0.340 (0.725) C:74% T:85%	pCi/L		03/21/25 11:31	
Total Radium Calculation	Total Radium	0.644U ± 0.533 (1.01)	pCi/L		03/24/25 16:34	
92781920022	**YAT-PZ-37**					
EPA 9315	Radium-226	0.403 ± 0.175 (0.224) C:82% T:NA	pCi/L		03/24/25 08:32	
EPA 9320	Radium-228	0.480U ± 0.398 (0.795) C:70% T:86%	pCi/L		03/21/25 11:31	
Total Radium Calculation	Total Radium	0.883U ± 0.573 (1.02)	pCi/L		03/24/25 16:34	
92781920023	**YAT-PZ-37D**					
EPA 9315	Radium-226	1.44 ± 0.368 (0.303) C:76% T:NA	pCi/L		03/24/25 08:32	
EPA 9320	Radium-228	0.934 ± 0.423 (0.701) C:76% T:86%	pCi/L		03/21/25 11:31	
Total Radium Calculation	Total Radium	2.37 ± 0.791 (1.00)	pCi/L		03/24/25 16:34	
92781920024	**YAT-PZ-52D**					
EPA 9315	Radium-226	0.302 ± 0.135 (0.176) C:112% T:NA	pCi/L		03/24/25 08:32	
EPA 9320	Radium-228	0.400U ± 0.366 (0.741) C:72% T:81%	pCi/L		03/21/25 11:31	
Total Radium Calculation	Total Radium	0.702U ± 0.501 (0.917)	pCi/L		03/24/25 16:34	

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SUMMARY OF DETECTION

Project: YAT AP-3, A, B/B', R6-RADs
Pace Project No.: 92781920

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92781920025	**YAT-YGWC-24SB**					
EPA 9315	Radium-226	0.0493U ± 0.130 (0.307) C:101% T:NA	pCi/L		04/09/25 08:27	
EPA 9320	Radium-228	0.278U ± 0.294 (0.608) C:77% T:94%	pCi/L		04/08/25 15:11	
Total Radium Calculation	Total Radium	0.327U ± 0.424 (0.915)	pCi/L		04/09/25 16:16	
92781920026	**YAT-AMA-R6-EB-1**					
EPA 9315	Radium-226	0.170U ± 0.146 (0.286) C:85% T:NA	pCi/L		04/09/25 08:27	
EPA 9320	Radium-228	0.498U ± 0.386 (0.761) C:77% T:89%	pCi/L		04/08/25 15:11	
Total Radium Calculation	Total Radium	0.668U ± 0.532 (1.05)	pCi/L		04/09/25 16:16	
92781920027	**YAT-AMA-R6-FB-1**					
EPA 9315	Radium-226	0.0129U ± 0.107 (0.268) C:94% T:NA	pCi/L		04/09/25 08:27	
EPA 9320	Radium-228	0.195U ± 0.412 (0.908) C:80% T:89%	pCi/L		04/08/25 15:12	
Total Radium Calculation	Total Radium	0.208U ± 0.519 (1.18)	pCi/L		04/09/25 16:16	
92781920028	**YAT-AMA-R6-FD-1**					
EPA 9315	Radium-226	0.0448U ± 0.0958 (0.223) C:104% T:NA	pCi/L		04/09/25 08:27	
EPA 9320	Radium-228	0.561U ± 0.422 (0.840) C:84% T:87%	pCi/L		04/08/25 15:12	
Total Radium Calculation	Total Radium	0.606U ± 0.518 (1.06)	pCi/L		04/09/25 16:16	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6-RADs
Pace Project No.: 92781920

Sample: YAT-PZ-35 **Lab ID: 92781920001** Collected: 02/25/25 17:58 Received: 02/26/25 13:55 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	**0.339U ± 0.220 (0.417) C:92% T:NA**	pCi/L	03/19/25 15:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.468U ± 0.445 (0.907) C:80% T:66%**	pCi/L	03/19/25 14:13	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.807U ± 0.665 (1.32)**	pCi/L	03/21/25 15:41	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6-RADs
Pace Project No.: 92781920

Sample: YAT-YGWC-50 **Lab ID: 92781920002** Collected: 02/26/25 15:20 Received: 02/27/25 13:40 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	**0.0900U ± 0.119 (0.256) C:94% T:NA**	pCi/L	03/20/25 15:24	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.939U ± 0.557 (1.05) C:76% T:79%**	pCi/L	03/21/25 10:51	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.03U ± 0.676 (1.31)**	pCi/L	03/24/25 12:03	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6-RADs
Pace Project No.: 92781920

Sample: YAT-YAMW-1 **Lab ID: 92781920003** Collected: 02/26/25 10:31 Received: 02/27/25 13:40 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 ± 0.141 (0.231) C:90% T:NA**	pCi/L	03/20/25 15:24	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.410U ± 0.384 (0.783) C:72% T:80%**	pCi/L	03/26/25 12:08	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.645U ± 0.525 (1.01)**	pCi/L	03/27/25 15:10	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6-RADs
Pace Project No.: 92781920

Sample: YAT-AMA-R6-FD-1 **Lab ID: 92781920004** Collected: 02/26/25 00:00 Received: 02/27/25 13:40 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	**0.133U ± 0.137 (0.283) C:91% T:NA**	pCi/L	03/20/25 15:24	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.836 ± 0.441 (0.769) C:71% T:85%**	pCi/L	03/21/25 14:18	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.969U ± 0.578 (1.05)**	pCi/L	03/24/25 12:03	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6-RADs
Pace Project No.: 92781920

Sample: YAT-YGWC-36A **Lab ID: 92781920005** Collected: 02/26/25 12:05 Received: 02/27/25 13:40 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	**0.104U ± 0.149 (0.330) C:92% T:NA**	pCi/L	03/20/25 15:26	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.403U ± 0.359 (0.720) C:70% T:92%**	pCi/L	03/21/25 14:18	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.507U ± 0.508 (1.05)**	pCi/L	03/24/25 12:03	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6-RADs
Pace Project No.: 92781920

Sample: YAT-YGWC-49 **Lab ID: 92781920006** Collected: 02/26/25 09:35 Received: 02/27/25 13:40 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	**0.140U ± 0.151 (0.314) C:85% T:NA**	pCi/L	03/20/25 15:26	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.05 ± 0.463 (0.754) C:75% T:89%**	pCi/L	03/21/25 14:18	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.19 ± 0.614 (1.07)**	pCi/L	03/24/25 12:03	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6-RADs
Pace Project No.: 92781920

Sample: YAT-YGWC-38 **Lab ID: 92781920007** Collected: 02/26/25 17:20 Received: 02/27/25 13:40 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	**0.126U ± 0.121 (0.236) C:89% T:NA**	pCi/L	03/20/25 15:29	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.799U ± 0.565 (1.12) C:74% T:86%**	pCi/L	03/21/25 14:18	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.925U ± 0.686 (1.36)**	pCi/L	03/24/25 12:03	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6-RADs
Pace Project No.: 92781920

Sample: YAT-YGWC-41 **Lab ID: 92781920008** Collected: 02/26/25 17:32 Received: 02/27/25 13:40 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	**0.111U ± 0.137 (0.293) C:91% T:NA**	pCi/L	03/20/25 15:29	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.501U ± 0.512 (1.07) C:78% T:84%**	pCi/L	03/21/25 14:18	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.612U ± 0.649 (1.36)**	pCi/L	03/24/25 12:03	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6-RADs
Pace Project No.: 92781920

Sample: YAT-YGWC-42 **Lab ID: 92781920009** Collected: 02/26/25 12:10 Received: 02/27/25 13:40 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	**0.307U ± 0.182 (0.308) C:92% T:NA**	pCi/L	03/20/25 15:29	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.491U ± 0.376 (0.741) C:78% T:93%**	pCi/L	03/21/25 14:18	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.798U ± 0.558 (1.05)**	pCi/L	03/24/25 12:03	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6-RADs
Pace Project No.: 92781920

Sample: YAT-YAMW-2 **Lab ID: 92781920010** Collected: 02/26/25 14:38 Received: 02/27/25 13:40 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	**0.0371U ± 0.120 (0.289) C:93% T:NA**	pCi/L	03/21/25 08:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.00364U ± 0.302 (0.711) C:76% T:92%**	pCi/L	03/21/25 14:18	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.0371U ± 0.422 (1.000)**	pCi/L	03/24/25 12:03	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6-RADs
Pace Project No.: 92781920

Sample: YAT-YAMW-3 **Lab ID: 92781920011** Collected: 02/26/25 10:01 Received: 02/27/25 13:40 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	**0.890 ± 0.270 (0.278) C:91% T:NA**	pCi/L	03/21/25 08:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.741 ± 0.384 (0.656) C:79% T:86%**	pCi/L	03/21/25 14:18	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.63 ± 0.654 (0.934)**	pCi/L	03/24/25 12:03	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6-RADs
Pace Project No.: 92781920

Sample: YAT-YAMW-4 **Lab ID: 92781920012** Collected: 02/26/25 15:52 Received: 02/27/25 13:40 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	**0.0720U ± 0.171 (0.398) C:96% T:NA**	pCi/L	03/21/25 08:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.242U ± 0.381 (0.824) C:73% T:88%**	pCi/L	03/21/25 14:18	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.314U ± 0.552 (1.22)**	pCi/L	03/24/25 12:03	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6-RADs
Pace Project No.: 92781920

Sample: YAT-AMA-R6-EB-1 **Lab ID: 92781920013** Collected: 02/26/25 12:25 Received: 02/27/25 13:40 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	**-0.101U ± 0.0929 (0.296) C:91% T:NA**	pCi/L	03/21/25 11:25	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.257U ± 0.396 (0.856) C:67% T:92%**	pCi/L	03/21/25 14:19	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.257U ± 0.489 (1.15)**	pCi/L	03/24/25 12:03	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6-RADs
Pace Project No.: 92781920

Sample: YAT-AMA-R6-FB-1 **Lab ID: 92781920014** Collected: 02/26/25 10:45 Received: 02/27/25 13:40 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	**0.109U ± 0.110 (0.217) C:91% T:NA**	pCi/L	03/21/25 11:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.300U ± 0.328 (0.682) C:76% T:94%**	pCi/L	03/21/25 14:19	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.409U ± 0.438 (0.899)**	pCi/L	03/24/25 12:03	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6-RADs
Pace Project No.: 92781920

Sample: YAT-AMA-R6-FD-2 **Lab ID: 92781920015** Collected: 02/26/25 00:00 Received: 02/27/25 13:40 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	**0.0924U ± 0.134 (0.296) C:94% T:NA**	pCi/L	03/21/25 08:40	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.352U ± 0.368 (0.763) C:76% T:88%**	pCi/L	03/21/25 14:19	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.444U ± 0.502 (1.06)**	pCi/L	03/24/25 12:03	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6-RADs
Pace Project No.: 92781920

Sample: YAT-YGWC-43 **Lab ID: 92781920016** Collected: 02/27/25 13:24 Received: 02/28/25 11:00 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	**3.41 ± 0.670 (0.335) C:80% T:NA**	pCi/L	03/21/25 08:40	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.14 ± 0.539 (0.956) C:79% T:95%**	pCi/L	03/21/25 14:19	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**4.55 ± 1.21 (1.29)**	pCi/L	03/24/25 12:03	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6-RADs
Pace Project No.: 92781920

Sample: YAT-PZ-51 **Lab ID: 92781920017** Collected: 02/27/25 14:18 Received: 02/28/25 11:00 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	**0.326 ± 0.172 (0.285) C:95% T:NA**	pCi/L	03/21/25 08:41	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.541U ± 0.488 (1.000) C:77% T:85%**	pCi/L	03/21/25 14:19	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.867U ± 0.660 (1.29)**	pCi/L	03/24/25 12:03	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6-RADs
Pace Project No.: 92781920

Sample: YAT-PZ-55 **Lab ID: 92781920018** Collected: 02/27/25 11:06 Received: 02/28/25 11:00 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	**0.151U ± 0.138 (0.275) C:91% T:NA**	pCi/L	03/21/25 08:41	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.724U ± 0.525 (1.04) C:77% T:86%**	pCi/L	03/21/25 14:19	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.875U ± 0.663 (1.32)**	pCi/L	03/24/25 12:03	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6-RADs
Pace Project No.: 92781920

Sample: YAT-PZ-54D **Lab ID: 92781920019** Collected: 02/27/25 13:00 Received: 02/28/25 11:00 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	**0.0850U ± 0.136 (0.305) C:90% T:NA**	pCi/L	03/21/25 08:41	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.645U ± 0.512 (1.02) C:78% T:86%**	pCi/L	03/21/25 14:19	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.730U ± 0.648 (1.33)**	pCi/L	03/24/25 12:03	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6-RADs
Pace Project No.: 92781920

Sample: YAT-YGWC-23S **Lab ID: 92781920020** Collected: 02/27/25 16:10 Received: 02/28/25 11:00 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	**0.310 ± 0.161 (0.234) C:78% T:NA**	pCi/L	03/24/25 10:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.613U ± 0.449 (0.876) C:77% T:69%**	pCi/L	03/26/25 12:08	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.923U ± 0.610 (1.11)**	pCi/L	03/27/25 15:10	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6-RADs
Pace Project No.: 92781920

Sample: YAT-YAMW-5 **Lab ID: 92781920021** Collected: 02/27/25 14:57 Received: 02/28/25 11:00 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	**0.392 ± 0.193 (0.282) C:71% T:NA**	pCi/L	03/24/25 08:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.252U ± 0.340 (0.725) C:74% T:85%**	pCi/L	03/21/25 11:31	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.644U ± 0.533 (1.01)**	pCi/L	03/24/25 16:34	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6-RADs
Pace Project No.: 92781920

Sample: YAT-PZ-37 **Lab ID: 92781920022** Collected: 02/27/25 13:52 Received: 02/28/25 11:00 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	**0.403 ± 0.175 (0.224) C:82% T:NA**	pCi/L	03/24/25 08:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.480U ± 0.398 (0.795) C:70% T:86%**	pCi/L	03/21/25 11:31	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.883U ± 0.573 (1.02)**	pCi/L	03/24/25 16:34	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6-RADs
Pace Project No.: 92781920

Sample: YAT-PZ-37D **Lab ID: 92781920023** Collected: 02/27/25 12:31 Received: 02/28/25 11:00 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	**1.44 ± 0.368 (0.303) C:76% T:NA**	pCi/L	03/24/25 08:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.934 ± 0.423 (0.701) C:76% T:86%**	pCi/L	03/21/25 11:31	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.37 ± 0.791 (1.00)**	pCi/L	03/24/25 16:34	7440-14-4	

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6-RADs
Pace Project No.: 92781920

Sample: YAT-PZ-52D **Lab ID: 92781920024** Collected: 02/27/25 10:27 Received: 02/28/25 11:00 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	**0.302 ± 0.135 (0.176) C:112% T:NA**	pCi/L	03/24/25 08:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.400U ± 0.366 (0.741) C:72% T:81%**	pCi/L	03/21/25 11:31	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.702U ± 0.501 (0.917)**	pCi/L	03/24/25 16:34	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6-RADs
Pace Project No.: 92781920

Sample: YAT-YGWC-24SB **Lab ID: 92781920025** Collected: 03/17/25 14:45 Received: 03/18/25 11:53 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	**0.0493U ± 0.130 (0.307) C:101% T:NA**	pCi/L	04/09/25 08:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.278U ± 0.294 (0.608) C:77% T:94%**	pCi/L	04/08/25 15:11	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.327U ± 0.424 (0.915)**	pCi/L	04/09/25 16:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6-RADs
Pace Project No.: 92781920

Sample: YAT-AMA-R6-EB-1 **Lab ID: 92781920026** Collected: 03/17/25 11:35 Received: 03/18/25 11:53 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	**0.170U ± 0.146 (0.286) C:85% T:NA**	pCi/L	04/09/25 08:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.498U ± 0.386 (0.761) C:77% T:89%**	pCi/L	04/08/25 15:11	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.668U ± 0.532 (1.05)**	pCi/L	04/09/25 16:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6-RADs
Pace Project No.: 92781920

Sample: YAT-AMA-R6-FB-1 **Lab ID: 92781920027** Collected: 03/17/25 15:15 Received: 03/18/25 11:53 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	**0.0129U ± 0.107 (0.268) C:94% T:NA**	pCi/L	04/09/25 08:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.195U ± 0.412 (0.908) C:80% T:89%**	pCi/L	04/08/25 15:12	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.208U ± 0.519 (1.18)**	pCi/L	04/09/25 16:16	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6-RADs
Pace Project No.: 92781920

Sample: YAT-AMA-R6-FD-1 **Lab ID: 92781920028** Collected: 03/17/25 00:00 Received: 03/18/25 11:53 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	**0.0448U ± 0.0958 (0.223) C:104% T:NA**	pCi/L	04/09/25 08:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.561U ± 0.422 (0.840) C:84% T:87%**	pCi/L	04/08/25 15:12	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.606U ± 0.518 (1.06)**	pCi/L	04/09/25 16:16	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6-RADs
Pace Project No.: 92781920

QC Batch: 730120
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92781920001

METHOD BLANK: 3553852 Matrix: Water
Associated Lab Samples: 92781920001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.612 ± 0.395 (0.745) C:80% T:84%	pCi/L	03/19/25 14:13	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6-RADs
Pace Project No.: 92781920

QC Batch: 734192
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92781920025, 92781920026, 92781920027, 92781920028

METHOD BLANK: 3573800 Matrix: Water
Associated Lab Samples: 92781920025, 92781920026, 92781920027, 92781920028

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0303 ± 0.0951 (0.264) C:95% T:NA	pCi/L	04/09/25 08:15	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6-RADs
Pace Project No.: 92781920

QC Batch: 730117
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92781920001

METHOD BLANK: 3553848 Matrix: Water
Associated Lab Samples: 92781920001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0406 ± 0.152 (0.373) C:63% T:NA	pCi/L	03/19/25 15:21	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6-RADs
Pace Project No.: 92781920

QC Batch: 730414
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92781920002, 92781920003, 92781920004, 92781920005, 92781920006, 92781920007, 92781920008, 92781920009, 92781920010, 92781920011, 92781920012, 92781920013, 92781920014, 92781920015, 92781920016, 92781920017, 92781920018, 92781920019

METHOD BLANK: 3555206
Matrix: Water
Associated Lab Samples: 92781920002, 92781920003, 92781920004, 92781920005, 92781920006, 92781920007, 92781920008, 92781920009, 92781920010, 92781920011, 92781920012, 92781920013, 92781920014, 92781920015, 92781920016, 92781920017, 92781920018, 92781920019

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.103 ± 0.112 (0.228) C:89% T:NA	pCi/L	03/20/25 15:23	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6-RADs
Pace Project No.: 92781920

QC Batch: 736110
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92781920025, 92781920026, 92781920027, 92781920028

METHOD BLANK: 3582896 Matrix: Water
Associated Lab Samples: 92781920025, 92781920026, 92781920027, 92781920028

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.580 ± 0.363 (0.666) C:77% T:84%	pCi/L	04/08/25 15:11	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6-RADs
Pace Project No.: 92781920

QC Batch: 730412
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92781920002, 92781920003, 92781920004, 92781920005, 92781920006, 92781920007, 92781920008, 92781920009, 92781920010, 92781920011, 92781920012, 92781920013, 92781920014, 92781920015, 92781920016, 92781920017, 92781920018, 92781920019

METHOD BLANK: 3555202
Matrix: Water
Associated Lab Samples: 92781920002, 92781920003, 92781920004, 92781920005, 92781920006, 92781920007, 92781920008, 92781920009, 92781920010, 92781920011, 92781920012, 92781920013, 92781920014, 92781920015, 92781920016, 92781920017, 92781920018, 92781920019

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.134 ± 0.310 (0.690) C:77% T:87%	pCi/L	03/21/25 10:50	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6-RADs
Pace Project No.: 92781920

QC Batch: 730714
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92781920020, 92781920021, 92781920022, 92781920023, 92781920024

METHOD BLANK: 3557087 Matrix: Water
Associated Lab Samples: 92781920020, 92781920021, 92781920022, 92781920023, 92781920024

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0558 ± 0.0930 (0.209) C:93% T:NA	pCi/L	03/24/25 08:32	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6-RADs
Pace Project No.: 92781920

QC Batch: 730713
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92781920020, 92781920021, 92781920022, 92781920023, 92781920024

METHOD BLANK: 3557085 Matrix: Water
Associated Lab Samples: 92781920020, 92781920021, 92781920022, 92781920023, 92781920024

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0938 ± 0.363 (0.824) C:67% T:82%	pCi/L	03/21/25 11:31	

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QUALIFIERS

Project: YAT AP-3, A, B/B', R6-RADs
Pace Project No.: 92781920

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: YAT AP-3, A, B/B', R6-RADs
Pace Project No.: 92781920

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92781920001	**YAT-PZ-35**	EPA 9315	730117		
92781920002	**YAT-YGWC-50**	EPA 9315	730414		
92781920003	**YAT-YAMW-1**	EPA 9315	730414		
92781920004	**YAT-AMA-R6-FD-1**	EPA 9315	730414		
92781920005	**YAT-YGWC-36A**	EPA 9315	730414		
92781920006	**YAT-YGWC-49**	EPA 9315	730414		
92781920007	**YAT-YGWC-38**	EPA 9315	730414		
92781920008	**YAT-YGWC-41**	EPA 9315	730414		
92781920009	**YAT-YGWC-42**	EPA 9315	730414		
92781920010	**YAT-YAMW-2**	EPA 9315	730414		
92781920011	**YAT-YAMW-3**	EPA 9315	730414		
92781920012	**YAT-YAMW-4**	EPA 9315	730414		
92781920013	**YAT-AMA-R6-EB-1**	EPA 9315	730414		
92781920014	**YAT-AMA-R6-FB-1**	EPA 9315	730414		
92781920015	**YAT-AMA-R6-FD-2**	EPA 9315	730414		
92781920016	**YAT-YGWC-43**	EPA 9315	730414		
92781920017	**YAT-PZ-51**	EPA 9315	730414		
92781920018	**YAT-PZ-55**	EPA 9315	730414		
92781920019	**YAT-PZ-54D**	EPA 9315	730414		
92781920020	**YAT-YGWC-23S**	EPA 9315	730714		
92781920021	**YAT-YAMW-5**	EPA 9315	730714		
92781920022	**YAT-PZ-37**	EPA 9315	730714		
92781920023	**YAT-PZ-37D**	EPA 9315	730714		
92781920024	**YAT-PZ-52D**	EPA 9315	730714		
92781920025	**YAT-YGWC-24SB**	EPA 9315	734192		
92781920026	**YAT-AMA-R6-EB-1**	EPA 9315	734192		
92781920027	**YAT-AMA-R6-FB-1**	EPA 9315	734192		
92781920028	**YAT-AMA-R6-FD-1**	EPA 9315	734192		
92781920001	**YAT-PZ-35**	EPA 9320	730120		
92781920002	**YAT-YGWC-50**	EPA 9320	730412		
92781920003	**YAT-YAMW-1**	EPA 9320	730412		
92781920004	**YAT-AMA-R6-FD-1**	EPA 9320	730412		
92781920005	**YAT-YGWC-36A**	EPA 9320	730412		
92781920006	**YAT-YGWC-49**	EPA 9320	730412		
92781920007	**YAT-YGWC-38**	EPA 9320	730412		
92781920008	**YAT-YGWC-41**	EPA 9320	730412		
92781920009	**YAT-YGWC-42**	EPA 9320	730412		
92781920010	**YAT-YAMW-2**	EPA 9320	730412		
92781920011	**YAT-YAMW-3**	EPA 9320	730412		
92781920012	**YAT-YAMW-4**	EPA 9320	730412		
92781920013	**YAT-AMA-R6-EB-1**	EPA 9320	730412		
92781920014	**YAT-AMA-R6-FB-1**	EPA 9320	730412		
92781920015	**YAT-AMA-R6-FD-2**	EPA 9320	730412		
92781920016	**YAT-YGWC-43**	EPA 9320	730412		
92781920017	**YAT-PZ-51**	EPA 9320	730412		
92781920018	**YAT-PZ-55**	EPA 9320	730412		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT AP-3, A, B/B', R6-RADs
Pace Project No.: 92781920

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92781920019	**YAT-PZ-54D**	EPA 9320	730412		
92781920020	**YAT-YGWC-23S**	EPA 9320	730713		
92781920021	**YAT-YAMW-5**	EPA 9320	730713		
92781920022	**YAT-PZ-37**	EPA 9320	730713		
92781920023	**YAT-PZ-37D**	EPA 9320	730713		
92781920024	**YAT-PZ-52D**	EPA 9320	730713		
92781920025	**YAT-YGWC-24SB**	EPA 9320	736110		
92781920026	**YAT-AMA-R6-EB-1**	EPA 9320	736110		
92781920027	**YAT-AMA-R6-FB-1**	EPA 9320	736110		
92781920028	**YAT-AMA-R6-FD-1**	EPA 9320	736110		
92781920001	**YAT-PZ-35**	Total Radium Calculation	734606		
92781920002	**YAT-YGWC-50**	Total Radium Calculation	734856		
92781920003	**YAT-YAMW-1**	Total Radium Calculation	735780		
92781920004	**YAT-AMA-R6-FD-1**	Total Radium Calculation	734856		
92781920005	**YAT-YGWC-36A**	Total Radium Calculation	734856		
92781920006	**YAT-YGWC-49**	Total Radium Calculation	734856		
92781920007	**YAT-YGWC-38**	Total Radium Calculation	734856		
92781920008	**YAT-YGWC-41**	Total Radium Calculation	734856		
92781920009	**YAT-YGWC-42**	Total Radium Calculation	734856		
92781920010	**YAT-YAMW-2**	Total Radium Calculation	734856		
92781920011	**YAT-YAMW-3**	Total Radium Calculation	734856		
92781920012	**YAT-YAMW-4**	Total Radium Calculation	734856		
92781920013	**YAT-AMA-R6-EB-1**	Total Radium Calculation	734856		
92781920014	**YAT-AMA-R6-FB-1**	Total Radium Calculation	734856		
92781920015	**YAT-AMA-R6-FD-2**	Total Radium Calculation	734856		
92781920016	**YAT-YGWC-43**	Total Radium Calculation	734856		
92781920017	**YAT-PZ-51**	Total Radium Calculation	734856		
92781920018	**YAT-PZ-55**	Total Radium Calculation	734856		
92781920019	**YAT-PZ-54D**	Total Radium Calculation	734856		
92781920020	**YAT-YGWC-23S**	Total Radium Calculation	735780		
92781920021	**YAT-YAMW-5**	Total Radium Calculation	734936		
92781920022	**YAT-PZ-37**	Total Radium Calculation	734936		
92781920023	**YAT-PZ-37D**	Total Radium Calculation	734936		
92781920024	**YAT-PZ-52D**	Total Radium Calculation	734936		
92781920025	**YAT-YGWC-24SB**	Total Radium Calculation	738518		
92781920026	**YAT-AMA-R6-EB-1**	Total Radium Calculation	738518		
92781920027	**YAT-AMA-R6-FB-1**	Total Radium Calculation	738518		
92781920028	**YAT-AMA-R6-FD-1**	Total Radium Calculation	738518		

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without the written consent of Pace Analytical Services, LLC.

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

Effective Date: 05/24/2024

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

WO# : 92781920

92781920

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

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

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

Date/Initials Person Examining Contents: 2/26/25 LM

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

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

Thermometer: ☑ IR Gun ID: 083

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 1.1

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

Cooler Temp Corrected (°C): 1.2

Temp should be above freezing to 6°C

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

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

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

WO#: 92781920
PM: BV Due Date: 03/19/25
CLIENT: 92-GP-Yates

Project #

*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

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

Client_____ Profile/EZ (Circle one)_____ Notes_____

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 (NH4)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	[illegible] mL Amber Unpreserved vials (N/A)
CC					B/W																							
1		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.

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

92780120

Company Name:	Southern Company	Contact/Report To	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202551	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT AP-3, A, B/B', R6	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only — Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment
YAT-YAMW-2	WG	G						7		X	X	X	X	X	See Remarks
YAT-YAMW-3	WG	G						7		X	X	X	X	X	See Remarks
YAT-YAMW-4	WG	G						7		X	X	X	X	X	See Remarks
YAT-YAMW-5	WG	G						7		X	X	X	X	X	See Remarks
YAT-PZ-37	WG	G						7		X	X	X	X	X	See Remarks
YAT-PZ-35	WG	G	2/25/25	1758	—	—		7		X	X	X	X	X	See Remarks OU1
YAT-PZ-37D	WG	G						7		X	X	X	X	X	See Remarks
YAT-PZ-51	WG	G						7		X	X	X	X	X	See Remarks
YAT-PZ-52D	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWC-50	WG	G						7		X	X	X	X	X	See Remarks

Customer Remarks / Special Conditions / Possible Hazards:

App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - KIM LAPSZYNSKI
Signature: (Arcadis) -

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
ARCADIS	2/26/25 1143	Ryan Williams / Pace	2/26/25 1143
Ryan Williams / Pace	2/26/25 1355		2/26/25 1355
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In- Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other

Page: 1 of 1

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

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

Effective Date: 05/24/2024

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

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

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

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

Date/Initials Person Examining Contents: 2/22/25 CDH

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: 2.3 Correction Factor: Add/Subtract (°C) 0.0

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

Cooler Temp Corrected (°C): 2.3

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

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

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

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

*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 #

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

Client_____ Profile/EZ (Circle one)_____ Notes_____

ItemH	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-)	VGFU-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)
CC																													
1		2	1		2		2																						
2		2	1		2		2																						
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6		3	1		2		2																						
7		2	1		2		2																						
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11		2	1		2		2																						
12		2	1		2		2																						

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-HUNT-0083 v05_Sample...

Effective Date: 05/24/2024

*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 #

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

Client_____ Profile/EZ (Circle one)_____ Notes_____

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)	15214	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		2	1		2		2																							
2		2	1		2		2																							
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10		2	1		2		2																							
11		2	1		2		2																							
12		2	1		2		2																							

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.

Qualtrax ID: 69614

*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 #

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

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

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)	AGDU-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																													
1		2	1		2	2																							
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pH Adjustment Log for Preserved Samples

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

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

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

92781920

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.946.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202551	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', R6		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable) [ ] Yes [✓] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment
YAT-YAMW-2	WG	G						7		X	X	X	X	X	See Remarks
YAT-YAMW-3	WG	G						7		X	X	X	X	X	See Remarks
YAT-YAMW-4	WG	G						7		X	X	X	X	X	See Remarks
YAT-YAMW-5	WG	G						7		X	X	X	X	X	See Remarks
YAT-PZ-37	WG	G						7		X	X	X	X	X	See Remarks
YAT-PZ-35	WG	G						7		X	X	X	X	X	See Remarks
YAT-PZ-37D	WG	G						7		X	X	X	X	X	See Remarks
YAT-PZ-51	WG	G						7		X	X	X	X	X	See Remarks
YAT-PZ-52D	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWC-50	WG	G	2/26/25	1520	—	—		7		X	X	X	X	X	See Remarks 002

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation noncconformance identified for sample.

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis): KIM LAPSZYNSKI
Signature: (Arcadis):

Additional Instructions from Pace®:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Arcadis	2/27/25 0830	Arcadis	2/27/25 0830
Arcadis	2/27/25 1005	Pace	2/27/25 1005
Pace	4/27/25 1340		2/27/25 1340

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

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Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2025S1	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', R6		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET		County / State origin of sample(s):	Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [✓] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample.

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM 2320B)	Sample Comment
YAT-YGWC-23S	WG	G						7		X	X	X	X	X	See Remarks
YAT-YAMW-1	WG	G	2/26/25	1031	—	—		7		X	X	X	X	X	See Remarks 003
YAT-AMA-R6-FD-1	WG	G	2/26/25	—	—	—		7		X	X	X	X	X	See Remarks 004
YAT-YGWC-36A	WG	G	2/26/25	1205	—	—		7		X	X	X	X	X	See Remarks 005
YAT-YGWC-49	WG	G	2/26/25	0935	—	—		7		X	X	X	X	X	See Remarks 006
YAT-YGWC-38	WG	G	2/26/25	1720	—	—		7		X	X	X	X	X	See Remarks 007
YAT-YGWC-24SB	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWC-41	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWC-42	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWC-43	WG	G						7		X	X	X	X	X	See Remarks

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - KIM KAPSZYNSKI
Signature: (Arcadis) -

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
KIM KAPSZYNSKI / ARCADIS	2/27/25 0830	[illegible] / Arcadis	2/27/25 0830
[illegible] / Arcadis	2/27/25 1005	Ryan Williams / Pace	2/27/25 1005
Ryan Williams / Pace	2/27/25 1340	[illegible]	2/27/25 1340
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

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Pace® Location Requested (City/State): Pace Analytical Charlotte, 9800 Kinzey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308
Customer Project #:	Task No. YAT-CCR-ASSMT-2025S1
Project Name:	Georgia Power Yates
Site Collection Info/Facility ID (as applicable):	YAT AP-3, A, B/B', R6
Time Zone Collected:	[ ] AK [ ] PT [ ] MT [ ] CT [X] ET
Data Deliverables:	[X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other
Contact/Report To:	Trey Singleton
Phone #:	205.346.3317
E-Mail:	rosingle@southernco.com
Cc E-Mail:	Arcadis contacts
Invoice To:	
Invoice E-Mail:	
Purchase Order # (if applicable):	GPCB2474-0002
Quote #:	
County / State origin of sample(s):	Georgia
Regulatory Program (DW, RCRA, etc.) as applicable:	
Rush (Pre-approval required):	[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____
Date Results Requested:	
DW PWSID # or WW Permit # as applicable:	
Field Filtered (if applicable):	[ ] Yes [X] No
Analysis:	

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vaper (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment	Preservation non conformance identified for sample
YAT-YGWC-23S	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YAMW-1	WG	G						7		X	X	X	X	X	See Remarks	
YAT-AMA-R6-FD-1	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWC-36A	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWC-49	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWC-38	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWC-24SB	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWC-41	WG	G	2/26/25	1732	—	—		7		X	X	X	X	X	See Remarks 008	
YAT-YGWC-42	WG	G	2/26/25	1210	—	—		7		X	X	X	X	X	See Remarks 009	
YAT-YGWC-43	WG	G						7		X	X	X	X	X	See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7010A: Hg.
Additional metals (6010D): Na, K, Mg. For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) Jessica Wood
Signature: (Arcadis)

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

	Date/Time:
Relinquished by/Company: (Signature) Jessica Wood / Arcadis	2/27/25 1005
Relinquished by/Company: (Signature) Ryan Williams / Pace	2/27/25 1340
Relinquished by/Company: (Signature)	
Relinquished by/Company: (Signature)	

	Date/Time:
Received by/Company: (Signature) Ryan Williams / Pace	2/27/25 1005
Received by/Company: (Signature) Charles Heuer	2/27/25 1340
Received by/Company: (Signature)	
Received by/Company: (Signature)	

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

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Pace® Location Requested (City/State): Pace Analytical Charlotte, 9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

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LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.946.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2025S1	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B, R6		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET		County / State origin of sample(s):	Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: **Bonnie Vaag**; AcctNum / Client ID:; Table #:; Profile / Template: **16561**; Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample.

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment
YAT-YAMW-2	WG	G	2/26/25	1438				7		X	X	X	X	X	See Remarks 010
YAT-YAMW-3	WG	G	2/26/25	1001				7		X	X	X	X	X	See Remarks 011
YAT-YAMW-4	WG	G	2/26/25	1552				7		X	X	X	X	X	See Remarks 012
YAT-YAMW-5	WG	G						7		X	X	X	X	X	See Remarks
YAT-PZ-37	WG	G						7		X	X	X	X	X	See Remarks
YAT-PZ-35	WG	G						7		X	X	X	X	X	See Remarks
YAT-PZ-37D	WG	G						7		X	X	X	X	X	See Remarks
YAT-PZ-51	WG	G						7		X	X	X	X	X	See Remarks
YAT-PZ-52D	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWC-50	WG	G						7		X	X	X	X	X	See Remarks

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Na, K, Mg: For Alkalinity: report total, carbonate, and bicarbonate

Collected By: Printed Name: (Arcadis) Jessica Wark; Signature: (Arcadis)

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Jessica Wark / Arcadis	2/27/25 1005	Glynn Williams / Pace	2/27/25 1005
Glynn Williams / Pace	4/27/25 1340	Chantel Hanks	2/27/23 1340

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

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Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave., Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

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LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for Instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2025S1	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT AP-3, A, B/B, R6	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected:	[ ] AK [ ] PT [ ] MT [ ] CT [X] ET	County / State origin of sample(s):	Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [✓] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers: Plastic	Number & Type of Containers: Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment
YAT-AMA-R6-EB-1	WG	G	2/26/25	1225	—	—		7		X	X	X	X	X	See Remarks 013
YAT-AMA-R6-FB-1	WG	G	2/26/25	1045	—	—		7		X	X	X	X	X	See Remarks 014
YAT-YGWC-24SB	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWC-PZ-55	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWC-PZ-54D	WG	G						7		X	X	X	X	X	See Remarks
YAT-AMA-R6-FD-2	WG	G	2/26/25	—	—	—		7		X	X	X	X	X	See Remarks 015

Lab Use Only — Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample:

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - KIM LAPSZYNSKI
Signature: (Arcadis) -

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
[signature] / ARCADIS	2/27/25 0830	[signature] Arcadis	2/27/25 0830
[signature] Arcadis	2/27/25 1005	Ryan Williams / Pace	2/27/25 1005
Ryan Williams / Pace	2/27/25 1340	[signature]	2/27/25 1340
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

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

Effective Date: 05/24/2024

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

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

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

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

Date/Initials Person Examining Contents: 2/28/25 DW

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: 4.5 Correction Factor: Add/Subtract (°C) 0

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

Cooler Temp Corrected (°C): 4.5

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

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

*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 #

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

Client GA Power Profile/EZ (Circle one) Notes

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)	BP1N	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)	DG9Y-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)	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)
CC																														
1		2	1		2		2																							
2		2	1		2		2																							
3		2	1		2		2																							
4		2	1		2		2																							
5		2	1		2		2																							
6		2	1		2		2																							
7		2	1		2		2																							
8		2	1		2		2																							
9		2	1		2		2																							
10		2	1		2		2																							
11		2	1		2		2																							
12		2	1		2		2																							

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.

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

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92781920

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202551	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/b', R6		Purchase Order # (if applicable):	GPC82424-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/9320	Alkalinity (SM2320B)	Lab Use Only	Sample Comment	Preservation non-conformance identified for sample.
YAT-YGWC-23S	WG	G						7		X	X	X	X	X		See Remarks	
YAT-YAMW-1	WG	G						7		X	X	X	X	X		See Remarks	
YAT-AMA-R6-FD-1	WG	G						7		X	X	X	X	X		See Remarks	
YAT-YGWC-36A	WG	G						7		X	X	X	X	X		See Remarks	
YAT-YGWC-49	WG	G						7		X	X	X	X	X		See Remarks	
YAT-YGWC-38	WG	G						7		X	X	X	X	X		See Remarks	
YAT-YGWC-24SB	WG	G						7		X	X	X	X	X		See Remarks	
YAT-YGWC-41	WG	G						7		X	X	X	X	X		See Remarks	
YAT-YGWC-42	WG	G						7		X	X	X	X	X		See Remarks	
YAT-YGWC-43	WG	G	2/27/25	1324	—	—		7		X	X	X	X	X		See Remarks 016	

Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - Jessica Ware
Signature: (Arcadis) - Jessica Ware

Additional Instructions from Pace®:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Jessica Ware /Arcadis	2/27/25 1730	Tony Green /Arcadis	2/27/25 1730	
Tony Green /Arcadis	2/28/25 1100		2/28/25 1100	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
				Page: of

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Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave., Suite 100, Huntersville, NC 28078

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Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202551	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP 3, A, B/B', Bb		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET		County / State origin of sample(s):	Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

			Collected (or Composite Start)		Composite End			Number & Type of Containers		Specify Container Size **										Analysis Requested										Lab Use Only	Sample Comment	Preservation non-conformance identified for sample.
Customer Sample ID	Matrix *	Comp / Grab	Date	Time	Date	Time	Res. Cl2	Plastic	Glass	3	3	2	1	3						2	1	1	2	1							
										Identify Container Preservative Type***										App III/V Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)							
YAT-YAMW-2	WG	G						7		X	X	X	X	X																	See Remarks
YAT-YAMW-3	WG	G						7		X	X	X	X	X																	See Remarks
YAT-YAMW-4	WG	G						7		X	X	X	X	X																	See Remarks
YAT-YAMW-5	WG	G						7		X	X	X	X	X																	See Remarks
YAT-PZ-37	WG	G						7		X	X	X	X	X																	See Remarks
YAT-PZ-35	WG	G						7		X	X	X	X	X																	See Remarks
YAT-PZ-37D	WG	G						7		X	X	X	X	X																	See Remarks
YAT-PZ-51	WG	G	2/27/25	1418	—	—		7		X	X	X	X	X																	See Remarks 017
YAT-PZ-52D	WG	G						7		X	X	X	X	X																	See Remarks
YAT-YGWC-50	WG	G						7		X	X	X	X	X																	See Remarks

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl. 7040A: Hg.
Additional metals (6010D): Na, K, Mg. For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - Jessica Ware
Signature: (Arcadis) - Jessica Ware

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature) Jessica Ware / Arcadis	Date/Time: 2/27/25 1730	Received by/Company: (Signature) Amy Brown / Arcadis	Date/Time: 2/27/25 1730	Tracking Number:
Relinquished by/Company: (Signature) Amy Brown / Arcadis	Date/Time: 2/28/25 1100	Received by/Company: (Signature)	Date/Time: 2/28/25 1100	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

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Pace* Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

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Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.366.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202551	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', R6		Purchase Order # (if applicable):	GPC8247-0002
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET		County / State origin of sample(s):	Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment
								Specify Container Size **		3	3	2	1	3	
								Identify Container Preservative Type***		2	1	1	2	1	
								Analysis Requested							
YAT-AMA-R6-EB-1	WG	G						7		X	X	X	X	X	See Remarks
YAT-AMA-R6-FB-1	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWC-24SB	WG	G						7		X	X	X	X	X	See Remarks
YAT ~~YGWC~~-PZ-55 YAT-PZ-55	WG	G	2/27/25	1106	—	—		7		X	X	X	X	X	See Remarks 018
YAT-YGWC-PZ-54D	WG	G						7		X	X	X	X	X	See Remarks
YAT-AMA-R6-FD-2	WG	G						7		X	X	X	X	X	See Remarks

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Na, K, Mg: For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) Jessica Ware
Signature: (Arcadis)

Additional instructions from Pace*:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Jessica Ware/Arcadis	2/27/25 1730	Ryan Dolan/Arcadis	2/27/25 1730
Ryan Dolan/Arcadis	2/28/25 1100		2/28/25 1100

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other

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Pace* Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave., Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

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Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202551	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT AP-3, A, B/B', R6	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected:	[ ] AK [ ] PT [ ] MT [ ] CT [X] ET	County / State origin of sample(s):	Georgia
Data Deliverables:	[X] Level II [ ] Level III [ ] Level IV; [X] EQUIS; [ ] Other	Regulatory Program (DW, RCRA, etc.) as applicable:	
		Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other	DW PWSID # or WW Permit # as applicable:
		Date Results Requested:	Field Filtered (if applicable): [ ] Yes [ ] No; Analysis:

Specify Container Size **: 3 3 2 1 3
Identify Container Preservative Type***: 2 1 1 2 1
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (for Composite Start) Date	Collected Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment	Preservation non-conformance identified for sample
YAT-AMA-R6-EB-1	WG	G						7		X	X	X	X	X	See Remarks	
YAT-AMA-R6-FB-1	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWC-24SB	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWC-PZ-55	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWC-PZ-54D	WG	G	2/27	1300				7		X	X	X	X	X	See Remarks 019	
YAT-AMA-R6-FD-2	WG	G						7		X	X	X	X	X	See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) -
Signature: (Arcadis) -

Additional Instructions from Pace*:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Pam Bunn / Arcadis	2/28/25 1100		2/28/25 1100	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In-Person [ ] Courier
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	[ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

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ENV-FRM-CORQ-0019_v01_082123

Pace® Location Requested (City/State)
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

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Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd. Atlanta, GA 30308	Phone #:	205.846.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202551	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT AP-3, A, B/B', R6	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected:	[ ] AK [ ] PT [ ] MT [ ] CT [X] ET	County / State origin of sample(s):	Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals – Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment
								Specify Container Size **		3	3	2	1	3	
								Identify Container Preservative Type***		2	1	1	2	1	
								Analysis Requested							
YAT-YGWC-23S	WG	G	2/27/25	1610	—	—		7		X	X	X	X	X	See Remarks 020
YAT-YAMW-1	WG	G						7		X	X	X	X	X	See Remarks
YAT-AMA-R6-FD-1	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWC-36A	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWC-49	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWC-38	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWC-24SB	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWC-41	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWC-42	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWC-43	WG	G						7		X	X	X	X	X	See Remarks

** Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample:

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - KIM LAPSZYNSKI
Signature: (Arcadis) -

Additional instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
/ARCADIS	2/27/25 1700	/Arcadis	2/27/25 1700	
/Arcadis	2/28/25 1100		2/28/25 1100	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
				Page: of

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ENV-FRM-CORQ-0019_v01_082123 ©

Pace® Location Requested (City/State): Pace Analytical Charlotte, 9800 Kincey Ave, Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202551	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', RG		Purchase Order # (if applicable):	GPC82474-C002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [✓] No

Analysis:

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; Acct.Num / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT). Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment	Preservation non-conformance identified for sample
YAT-YAMW-2	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YAMW-3	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YAMW-4	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YAMW-5	WG	G	2/27/25	1457	—	—		7		X	X	X	X	X	See Remarks 021	
YAT-PZ-37	WG	G	2/27/25	1352	—	—		7		X	X	X	X	X	See Remarks 022	
YAT-PZ-35	WG	G						7		X	X	X	X	X	See Remarks	
YAT-PZ-37D	WG	G	2/27/25	1231	—	—		7		X	X	X	X	X	See Remarks 023	
YAT-PZ-51	WG	G						7		X	X	X	X	X	See Remarks	
YAT-PZ-52D	WG	G	2/27/25	1027	—	—		7		X	X	X	X	X	See Remarks 024	
YAT-YGWC-50	WG	G						7		X	X	X	X	X	See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:

App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By: Printed Name: (Arcadis) - KIM LAPSZYNSKI Signature: (Arcadis) -

Additional Instructions from Pace®:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
/ARCADIS	2/27/25 1700	/Arcadis	2/27/25 1700	
/Arcadis	2/28/25 1100		2/28/25 1100	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
				Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORO-0019_v01_082123 ©

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

Effective Date: 05/24/2024

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

Sample Condition Upon Receipt

Client Name: G-A Power

Project #: WO#: 92781920

PM: BV Due Date: 03/19/25
CLIENT: 92-GP-Yates

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

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

Date/Initials Person Examining Contents: 3/18/25 CAH

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

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

Thermometer: ☑ IR Gun ID: 083

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.5 **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): 4.6

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

WO#: 92781920

PM: BV Due Date: 03/19/25

CLIENT: 92-GP-Yates

*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 #

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

Client_____ Profile/EZ (Circle one)_____ Notes_____

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)	BP1N	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		2	1				2																							
2		2	1				2																							
3		2	1				2																							
4		2	1				2																							
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.

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

92789120

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2025S1	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT AP-3, AP-4, R6	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EDD
[ ] Other _____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____
Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No
Analysis:

* Matrix Codes (insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3
Identify Container Preservative Type***: 2 1 1 2 1
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment	Preservation non-conformance identified for sample
YAT-GWC-24SB	WG	G	03/17/25	1445	—	—		7		X	X	X	X	X	See Remarks 025	
YAT-AMA-R6-EB-1	WG	G	03/17/25	1135	—	—		7		X	X	X	X	X	See Remarks 026	
YAT-AMA-R6-FB-1	WG	G	03/17/25	1515	—	—		7		X	X	X	X	X	See Remarks 027	
YAT-AMA-R6-FD-1	WG	G	03/17/25	—	—	—		7		X	X	X	X	X	See Remarks 028	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) David Prouty
Signature: (Arcadis)

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
	03/18/25 1152		3/18/25 1153
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In- Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other

Page: of

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Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test:	Ra-228
Analyst:	VAL
Date:	3/6/2025
Worklist:	83863
Matrix:	WT

Method Blank Assessment	
MB Sample ID	3553852
MB concentration:	0.612
M/B 2 Sigma CSU:	0.395
MB MDC:	0.745
MB Numerical Performance Indicator:	3.04
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS83863	**LCSD83863**
Count Date:	3/19/2025	3/19/2025
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	33.193	33.193
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.818	0.817
Target Conc. (pCi/L, g, F):	4.059	4.064
Uncertainty (Calculated):	0.199	0.199
Result (pCi/L, g, F):	3.620	4.765
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.970	1.179
Numerical Performance Indicator:	-0.87	1.15
Percent Recovery:	89.18%	117.25%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

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:		

Duplicate Sample Assessment		
Sample I.D.:	LCS83863	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD83863	
Sample Result (pCi/L, g, F):	3.620	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.970	
Sample Duplicate Result (pCi/L, g, F):	4.765	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.179	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-1.470	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	27.20%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

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:		
(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-prepped.~~

MB passes vs ~~recovery~~ activity < MDC
VAL 3/20/25

VAL
3/20/25

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test:	Ra-228
Analyst:	JJS1
Date:	3/10/2025
Worklist:	83890
Matrix:	WT

Method Blank Assessment	
MB Sample ID	3555202
MB concentration:	0.134
M/B 2 Sigma CSU:	0.310
MB MDC:	0.690
MB Numerical Performance Indicator:	0.84
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS83890	**LCSD83890**
Count Date:	3/21/2025	3/21/2025
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	33.171	33.171
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.816	0.826
Target Conc. (pCi/L, g, F):	4.064	4.018
Uncertainty (Calculated):	0.199	0.197
Result (pCi/L, g, F):	3.419	4.891
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.851	1.100
Numerical Performance Indicator:	-1.45	1.53
Percent Recovery:	84.14%	121.72%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

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:		

Duplicate Sample Assessment		
Sample I.D.:	LCS83890	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD83890	
Sample Result (pCi/L, g, F):	3.419	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.851	
Sample Duplicate Result (pCi/L, g, F):	4.891	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.100	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-2.073	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	36.51%	
Duplicate Status vs Numerical Indicator:	Warning	
Duplicate Status vs RPD:	Fail***	
% RPD Limit:	36%	

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:		
(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:

3/24/25

Quality Control Sample Performance Assessment

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Test:	Ra-228
Analyst:	ZPC
Date:	3/10/2025
Worklist:	83910
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3557085
MB concentration:	0.094
M/B 2 Sigma CSU:	0.363
MB MDC:	0.824
MB Numerical Performance Indicator:	0.51
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS83910	LCSD83910
Count Date:	3/21/2025	3/21/2025
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	33.172	33.172
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.816	0.818
Target Conc. (pCi/L, g, F):	4.064	4.056
Uncertainty (Calculated):	0.199	0.199
Result (pCi/L, g, F):	4.664	4.276
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.090	0.999
Numerical Performance Indicator:	1.06	0.42
Percent Recovery:	114.77%	105.43%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

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:		

Duplicate Sample Assessment		
Sample I.D.:	LCS83910	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD83910	
Sample Result (pCi/L, g, F):	4.664	
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.090	
Sample Duplicate Result (pCi/L, g, F):	4.276	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.999	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.514	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	8.48%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

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:		
(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:

3/24/25

Quality Control Sample Performance Assessment

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Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test:	Ra-228
Analyst:	JJS1
Date:	4/3/2025
Worklist:	84317
Matrix:	WT

Method Blank Assessment	
MB Sample ID	3582896
MB concentration:	0.580
M/B 2 Sigma CSU:	0.363
MB MDC:	0.666
MB Numerical Performance Indicator:	3.14
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS84317	LCSD84317
Count Date:	4/8/2025	4/8/2025
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	32.974	32.974
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.817	0.818
Target Conc. (pCi/L, g, F):	4.035	4.030
Uncertainty (Calculated):	0.198	0.197
Result (pCi/L, g, F):	2.619	3.169
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.704	0.775
Numerical Performance Indicator:	-3.80	-2.11
Percent Recovery:	64.92%	78.64%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

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:		

Duplicate Sample Assessment		
Sample I.D.:	LCS84317	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD84317	
Sample Result (pCi/L, g, F):	2.619	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.704	
Sample Duplicate Result (pCi/L, g, F):	3.169	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.775	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-1.029	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	19.12%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

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:		
(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-prepped. MB activity < MDC, Pass

4/9/25
ZPC
4-9-25

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	3/9/2025
Worklist:	83862
Matrix:	W

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3553848
MB concentration:	0.041
M/B 2 Sigma CSU:	0.152
MB MDC:	0.373
MB Numerical Performance Indicator:	0.52
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS83862	**LCSD83862**
Count Date:	3/21/2025	3/20/2025
Spike I.D.:	24-046	24-046
Decay Corrected Spike Concentration (pCi/mL):	31.833	31.833
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.510	0.508
Target Conc. (pCi/L, g, F):	6.238	6.272
Uncertainty (Calculated):	0.293	0.295
Result (pCi/L, g, F):	5.033	4.963
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.906	0.895
Numerical Performance Indicator:	-2.48	-2.73
Percent Recovery:	80.68%	79.12%
Status vs Numerical Indicator:	Warning	Warning
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

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:		

Duplicate Sample Assessment		
Sample I.D.:	LCS83862	92781920001
Duplicate Sample I.D.	LCSD83862	92781920001DUP
Sample Result (pCi/L, g, F):	5.033	0.339
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.906	0.220
Sample Duplicate Result (pCi/L, g, F):	4.963	0.352
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.895	0.182
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	0.108	-0.088
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	1.95%	3.72%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	N/A	N/A
% RPD Limit:	25%	25%

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:		
(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:

KT 3-21-25

VAM 3/21/25

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	3/10/2025
Worklist:	83891
Matrix:	W

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3555206
MB concentration:	0.103
M/B 2 Sigma CSU:	0.112
MB MDC:	0.228
MB Numerical Performance Indicator:	1.79
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS83891	LCSD83891
Count Date:	3/21/2025	3/21/2025
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.014	25.014
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.515	0.514
Target Conc. (pCi/L, g, F):	4.853	4.867
Uncertainty (Calculated):	0.228	0.229
Result (pCi/L, g, F):	5.241	5.225
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.918	0.913
Numerical Performance Indicator:	0.80	0.75
Percent Recovery:	108.01%	107.35%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

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:		

Duplicate Sample Assessment		
Sample I.D.:	LCS83891	92781920003
Duplicate Sample I.D.	LCSD83891	92781920003DUP
Sample Result (pCi/L, g, F):	5.241	0.235
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.918	0.141
Sample Duplicate Result (pCi/L, g, F):	5.225	0.288
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.913	0.180
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	0.025	-0.459
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	0.61%	20.49%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	N/A	N/A
% RPD Limit:	25%	25%

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:		
(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:

ET 3-21-25

VAM 3/21/25

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	3/7/2025
Worklist:	83911
Matrix:	W

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3557087
MB concentration:	0.056
M/B 2 Sigma CSU:	0.093
MB MDC:	0.209
MB Numerical Performance Indicator:	1.18
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS83911	**LCSD83911**
Count Date:	3/24/2025	3/24/2025
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.014	25.014
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.503	0.508
Target Conc. (pCi/L, g, F):	4.977	4.927
Uncertainty (Calculated):	0.234	0.232
Result (pCi/L, g, F):	5.148	5.150
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.911	0.926
Numerical Performance Indicator:	0.36	0.46
Percent Recovery:	103.45%	104.52%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

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:		

Duplicate Sample Assessment		
Sample I.D.:	LCS83911	92781920020
Duplicate Sample I.D.	LCSD83911	92781920020DUP
Sample Result (pCi/L, g, F):	5.148	0.310
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.911	0.161
Sample Duplicate Result (pCi/L, g, F):	5.150	0.276
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.926	0.173
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	-0.003	0.282
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	1.04%	11.61%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	N/A	N/A
% RPD Limit:	25%	25%

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:		
(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:

CT
3-24-25

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	3/26/2025
Worklist:	84162
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3573800
MB concentration:	-0.030
M/B 2 Sigma CSU:	0.095
MB MDC:	0.264
MB Numerical Performance Indicator:	-0.63
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS84162	LCSD84162
Count Date:	4/9/2025	4/9/2025
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.014	25.014
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.508	0.504
Target Conc. (pCi/L, g, F):	4.927	4.967
Uncertainty (Calculated):	0.232	0.233
Result (pCi/L, g, F):	4.284	3.822
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.776	0.704
Numerical Performance Indicator:	-1.56	-3.03
Percent Recovery:	86.95%	76.95%
Status vs Numerical Indicator:	Pass	Fail**
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

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:		

Duplicate Sample Assessment	
Sample I.D.:	LCS84162
Duplicate Sample I.D.	LCSD84162
Sample Result (pCi/L, g, F):	4.284
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.776
Sample Duplicate Result (pCi/L, g, F):	3.822
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.704
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	0.864
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	12.21%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	N/A
% RPD Limit:	25%

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:		
(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:

~~**Batch must be re-prepped due to LCSD failure.~~ N/A ET 4-9-25 Percent Recovery Passes

SLC 4/9/25

ET 4-9-25

Georgia Power Co. – Plant Yates

Data Review Report

Metals, General Chemistry, and Radium Analyses

SDGs #92798335 and 92798348

Analyses Performed By:
Pace Analytical Services – West Columbia, South Carolina
Pace Analytical Services – Asheville, North Carolina
Pace National – Mt. Juliet, Tennessee
Pace Analytical Services – Greensburg, Pennsylvania

Report #60010R
Review Level: Tier II
Project: 30143622.3D, 30143623.3D, 30143625.3D, 30143626.3D

Summary

This Data Review Report summarizes the review of Sample Delivery Groups (SDGs) #92798335 and 92798348 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-50	92798335001 92798348001	Water	5/21/2025		X	X	X
YAT-AMA-R6-EB-1	92798335002 92798348002	Water	5/21/2025		X	X	X
YAT-AMA-R6-FB-1	92798335003 92798348003	Water	5/21/2025		X	X	X
YAT-AMA-R6-FD-1	92798335004 927983480014	Water	5/21/2025	YAT-YGWC-50	X	X	X

Notes:

1. Metals analysis performed by Pace Analytical Services – West Columbia, South Carolina.
2. Mercury, alkalinity, total dissolved solids, and anions (chloride, fluoride, and sulfate) analysis performed by Pace Analytical Services – Asheville, North Carolina.
3. Lithium analysis performed by Pace National – Mt. Juliet, Tennessee.
4. Radium analysis performed by Pace Analytical Services – Greensburg, Pennsylvania.

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 6020B, 7470A, 9315, and 9320; Standard Method (SM) SM2540C; 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.

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 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.

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

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.

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. 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-YGWC-50 / YAT-AMA-R6-FD-1	Lithium	0.00292 J	0.00300 J	AC
	Barium	0.016	0.016	AC
	Beryllium	0.0026	0.0028	7.4%
	Boron	21.1	23.0	8.6%
	Cadmium	0.0071	0.0083	15.6%
	Calcium	276	298	AC
	Cobalt	0.0051	0.0052	AC

Note:
AC = Acceptable

The differences in the results between the parent sample YAT-YGWC-50 and field duplicate sample YAT-AMA-R6-FD-1 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 6020B/7470A	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
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
Total Dissolved Solids (TDS) by SM2540C	Water	7 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 sample YAT-AMA-R6-EB-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.

Laboratory duplicate analysis was not performed using a sample from this SDG in association with TDS analysis.

MS/MSD analysis was performed in replacement of the laboratory duplicate analysis in association with anions analysis. 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.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YAT-YGWC-50 / YAT-AMA-R6-FD-1	Total Dissolved Solids	2,090	2,130	1.9%
	Chloride	10.6	10.9	2.8%
	Fluoride	0.070 J	0.083 J	AC
	Sulfate	1,220	1,210	0.8%

Note:
AC = Acceptable

The differences in the results between the parent sample YAT-YGWC-50 and field duplicate sample YAT-AMA-R6-FD-1 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: 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:

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

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.

x_0 = measured concentration of the unspiked sample.

c = spike concentration added.

$u^2(x)$, $u^2(x0)$, $u^2(c)$ = 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.

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

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YAT-YGWC-50 / YAT-AMA-R6-FD-1	Radium-226	0.165 U ± 0.123	0.0364 U ± 0.120	AC
	Radium-228	0.698 U ± 0.505	0.297 U ± 0.567	
	Total Radium	0.863 U ± 0.628	0.333 U ± 0.687	

Note:
AC = Acceptable

The results were below the MDC in the parent sample YAT-YGWC-50 and field duplicate sample YAT-AMA-R6-FD-1.

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 were qualified as “U” by the laboratory as applicable.

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: July 22, 2025

PEER REVIEW: Joseph C. Houser

DATE: July 31, 2025

Chain of Custody / Data Qualifier Summary Table

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

WO# : 92798335

PM: BV **Due Date: 06/06/25**

CLIENT: 92-GP-Yates

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	roslingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-OTH-20250521	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', R6		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. CL2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment	Preservation non-conformance identified for sample.
YAT-YGWC-50	WG	G	05/21/25	1325	-----	-----		6		X	X	X	X	See Remarks 001	
YAT-AMA-R6-EB-1	WG	G	05/21/25	1255	-----	-----		6		X	X	X	X	See Remarks 002	
YAT-AMA-R6-FB-1	WG	G	05/21/25	1410	-----	-----		6		X	X	X	X	See Remarks 003	
YAT-AMA-R6-FD-1	WG	G	05/21/25	----	-----	-----		6		X	X	X	X	See Remarks 004	

Specify Container Size **: 3 3 2 1

Identify Container Preservative Type***: 2 1 1 2

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only

Proj. Mgr: Bonnie Vang

AcctNum / Client ID:

Table #:

Profile / Template: 16561

Prelog / Bottle Ord. ID:

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.

Collected By:
Printed Name: (Arcadis) David Prouty
Signature: (Arcadis)

Additional Instructions from Pace®:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
David Prouty, Arcadis	5/22/25 1355		5/22/25 1355	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In-Person [ ] Courier
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	[ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v01_082123 ©

SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier	Reason for Validation Qualifier
92798335	No qualifiers assigned						
92798348	No qualifiers assigned						

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
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July 11, 2025

Trey Singleton
Southern Company
241 Ralp McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92798335

Dear Trey Singleton:

Enclosed are the analytical results for sample(s) received by the laboratory on May 22, 2025. 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 National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - West Columbia

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

Sincerely,

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

Enclosures

cc: Geoffrey Gay, Arcadis-ATL
Laura Midkiff, Southern Company
Alex Simpson, Arcadis
Jessica Ware, Arcadis
Albert Zumbuhl, Arcadis

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CERTIFICATIONS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92798335

Pace Analytical Services National

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

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 West Columbia

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92798335

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92798335001	**YAT-YGWC-50**	Water	05/21/25 13:25	05/22/25 13:55
92798335002	**YAT-AMA-R6-EB-1**	Water	05/21/25 12:55	05/22/25 13:55
92798335003	**YAT-AMA-R6-FB-1**	Water	05/21/25 14:10	05/22/25 13:55
92798335004	**YAT-AMA-R6-FD-1**	Water	05/21/25 00:00	05/22/25 13:55

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SAMPLE ANALYTE COUNT

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92798335

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92798335001	**YAT-YGWC-50**	EPA 6020B	UNP	1	PAN
		SM 2540C-2015	HCH	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BW	13	PASI-WC
		EPA 7470A	KAJ1	1	PASI-WC
92798335002	**YAT-AMA-R6-EB-1**	EPA 6020B	UNP	1	PAN
		SM 2540C-2015	HCH	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BW	13	PASI-WC
		EPA 7470A	KAJ1	1	PASI-WC
92798335003	**YAT-AMA-R6-FB-1**	EPA 6020B	UNP	1	PAN
		SM 2540C-2015	HCH	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BW	13	PASI-WC
		EPA 7470A	KAJ1	1	PASI-WC
92798335004	**YAT-AMA-R6-FD-1**	EPA 6020B	UNP	1	PAN
		SM 2540C-2015	HCH	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BW	13	PASI-WC
		EPA 7470A	KAJ1	1	PASI-WC

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

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SUMMARY OF DETECTION

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92798335

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92798335001	**YAT-YGWC-50**					
EPA 6020B	Lithium	0.00292J	mg/L	0.0300	06/09/25 22:43	J
SM 2540C-2015	Total Dissolved Solids	2090	mg/L	50.0	05/27/25 11:10	
EPA 300.0 Rev 2.1 1993	Chloride	10.6	mg/L	1.0	05/23/25 03:55	
EPA 300.0 Rev 2.1 1993	Fluoride	0.070J	mg/L	0.10	05/23/25 03:55	
EPA 300.0 Rev 2.1 1993	Sulfate	1220	mg/L	25.0	05/23/25 12:17	
EPA 6020B	Barium	0.016	mg/L	0.0050	07/08/25 14:01	
EPA 6020B	Beryllium	0.0026	mg/L	0.00050	07/08/25 14:01	
EPA 6020B	Boron	21.1	mg/L	4.0	06/06/25 03:38	
EPA 6020B	Cadmium	0.0071	mg/L	0.00050	07/08/25 14:01	
EPA 6020B	Calcium	276	mg/L	100	06/06/25 03:38	
EPA 6020B	Cobalt	0.0051	mg/L	0.0050	07/08/25 14:01	
92798335004	**YAT-AMA-R6-FD-1**					
EPA 6020B	Lithium	0.00300J	mg/L	0.0300	06/09/25 23:01	J
SM 2540C-2015	Total Dissolved Solids	2130	mg/L	50.0	05/27/25 11:11	
EPA 300.0 Rev 2.1 1993	Chloride	10.9	mg/L	1.0	05/23/25 04:09	
EPA 300.0 Rev 2.1 1993	Fluoride	0.083J	mg/L	0.10	05/23/25 04:09	
EPA 300.0 Rev 2.1 1993	Sulfate	1210	mg/L	25.0	05/23/25 12:31	
EPA 6020B	Barium	0.016	mg/L	0.0050	07/08/25 14:10	
EPA 6020B	Beryllium	0.0028	mg/L	0.00050	07/08/25 14:10	
EPA 6020B	Boron	23.0	mg/L	4.0	06/06/25 03:47	
EPA 6020B	Cadmium	0.0083	mg/L	0.00050	07/08/25 14:10	
EPA 6020B	Calcium	298	mg/L	100	06/06/25 03:47	
EPA 6020B	Cobalt	0.0052	mg/L	0.0050	07/08/25 14:10	

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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92798335

Sample: YAT-YGWC-50 **Lab ID: 92798335001** Collected: 05/21/25 13:25 Received: 05/22/25 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00292J**	mg/L	0.0300	0.000600	1	06/04/25 14:14	06/09/25 22:43	7439-93-2	J
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**2090**	mg/L	50.0	50.0	1		05/27/25 11:10		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**10.6**	mg/L	1.0	0.60	1		05/23/25 03:55	16887-00-6	
Fluoride	**0.070J**	mg/L	0.10	0.050	1		05/23/25 03:55	16984-48-8	
Sulfate	**1220**	mg/L	25.0	12.5	25		05/23/25 12:17	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	05/29/25 09:30	07/08/25 14:01	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	05/29/25 09:30	07/08/25 14:01	7440-38-2	
Barium	**0.016**	mg/L	0.0050	0.0012	1	05/29/25 09:30	07/08/25 14:01	7440-39-3	
Beryllium	**0.0026**	mg/L	0.00050	0.00015	1	05/29/25 09:30	07/08/25 14:01	7440-41-7	
Boron	**21.1**	mg/L	4.0	0.62	100	05/29/25 09:30	06/06/25 03:38	7440-42-8	
Cadmium	**0.0071**	mg/L	0.00050	0.00012	1	05/29/25 09:30	07/08/25 14:01	7440-43-9	
Calcium	**276**	mg/L	100	10.0	100	05/29/25 09:30	06/06/25 03:38	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	05/29/25 09:30	07/08/25 14:01	7440-47-3	
Cobalt	**0.0051**	mg/L	0.0050	0.0012	1	05/29/25 09:30	07/08/25 14:01	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	05/29/25 09:30	07/08/25 14:01	7439-92-1	
Molybdenum	ND	mg/L	0.010	0.0025	1	05/29/25 09:30	07/08/25 14:01	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0012	1	05/29/25 09:30	07/08/25 14:01	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00015	1	05/29/25 09:30	07/08/25 14:01	7440-28-0	
WCOL 7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia								
Mercury	ND	mg/L	0.00020	0.000091	1	05/24/25 14:49	05/27/25 18:57	7439-97-6	

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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92798335

Sample: YAT-AMA-R6-EB-1 **Lab ID: 92798335002** Collected: 05/21/25 12:55 Received: 05/22/25 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	ND	mg/L	0.0300	0.000600	1	06/04/25 14:14	06/09/25 22:54	7439-93-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		05/27/25 11:11		
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		05/22/25 22:40	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		05/22/25 22:40	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		05/22/25 22:40	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	05/29/25 09:30	06/05/25 16:41	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	05/29/25 09:30	06/05/25 16:41	7440-38-2	
Barium	ND	mg/L	0.0050	0.0012	1	05/29/25 09:30	06/05/25 16:41	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	05/29/25 09:30	06/05/25 16:41	7440-41-7	
Boron	ND	mg/L	0.040	0.0062	1	05/29/25 09:30	06/05/25 16:41	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	05/29/25 09:30	06/05/25 16:41	7440-43-9	
Calcium	ND	mg/L	1.0	0.10	1	05/29/25 09:30	06/05/25 16:41	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	05/29/25 09:30	06/05/25 16:41	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	05/29/25 09:30	06/05/25 16:41	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	05/29/25 09:30	06/05/25 16:41	7439-92-1	
Molybdenum	ND	mg/L	0.010	0.0025	1	05/29/25 09:30	06/06/25 11:27	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0012	1	05/29/25 09:30	06/05/25 16:41	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00015	1	05/29/25 09:30	06/05/25 16:41	7440-28-0	
WCOL 7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia								
Mercury	ND	mg/L	0.00020	0.000091	1	05/24/25 14:49	05/27/25 19:04	7439-97-6	

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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92798335

Sample: YAT-AMA-R6-FB-1 **Lab ID: 92798335003** Collected: 05/21/25 14:10 Received: 05/22/25 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	ND	mg/L	0.0300	0.000600	1	06/04/25 14:14	06/09/25 22:58	7439-93-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		05/27/25 11:11		
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		05/22/25 23:23	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		05/22/25 23:23	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		05/22/25 23:23	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	05/29/25 09:30	06/05/25 16:50	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	05/29/25 09:30	06/05/25 16:50	7440-38-2	
Barium	ND	mg/L	0.0050	0.0012	1	05/29/25 09:30	06/05/25 16:50	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	05/29/25 09:30	06/05/25 16:50	7440-41-7	
Boron	ND	mg/L	0.040	0.0062	1	05/29/25 09:30	06/05/25 16:50	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	05/29/25 09:30	06/05/25 16:50	7440-43-9	
Calcium	ND	mg/L	1.0	0.10	1	05/29/25 09:30	06/05/25 16:50	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	05/29/25 09:30	06/05/25 16:50	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	05/29/25 09:30	06/05/25 16:50	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	05/29/25 09:30	06/05/25 16:50	7439-92-1	
Molybdenum	ND	mg/L	0.010	0.0025	1	05/29/25 09:30	06/06/25 11:30	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0012	1	05/29/25 09:30	06/05/25 16:50	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00015	1	05/29/25 09:30	06/05/25 16:50	7440-28-0	
WCOL 7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia								
Mercury	ND	mg/L	0.00020	0.000091	1	05/24/25 14:49	05/27/25 19:07	7439-97-6	

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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92798335

Sample: YAT-AMA-R6-FD-1 **Lab ID: 92798335004** Collected: 05/21/25 00:00 Received: 05/22/25 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00300J**	mg/L	0.0300	0.000600	1	06/04/25 14:14	06/09/25 23:01	7439-93-2	J
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**2130**	mg/L	50.0	50.0	1		05/27/25 11:11		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**10.9**	mg/L	1.0	0.60	1		05/23/25 04:09	16887-00-6	
Fluoride	**0.083J**	mg/L	0.10	0.050	1		05/23/25 04:09	16984-48-8	
Sulfate	**1210**	mg/L	25.0	12.5	25		05/23/25 12:31	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	05/29/25 09:30	07/08/25 14:10	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	05/29/25 09:30	07/08/25 14:10	7440-38-2	
Barium	**0.016**	mg/L	0.0050	0.0012	1	05/29/25 09:30	07/08/25 14:10	7440-39-3	
Beryllium	**0.0028**	mg/L	0.00050	0.00015	1	05/29/25 09:30	07/08/25 14:10	7440-41-7	
Boron	**23.0**	mg/L	4.0	0.62	100	05/29/25 09:30	06/06/25 03:47	7440-42-8	
Cadmium	**0.0083**	mg/L	0.00050	0.00012	1	05/29/25 09:30	07/08/25 14:10	7440-43-9	
Calcium	**298**	mg/L	100	10.0	100	05/29/25 09:30	06/06/25 03:47	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	05/29/25 09:30	07/08/25 14:10	7440-47-3	
Cobalt	**0.0052**	mg/L	0.0050	0.0012	1	05/29/25 09:30	07/08/25 14:10	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	05/29/25 09:30	07/08/25 14:10	7439-92-1	
Molybdenum	ND	mg/L	0.010	0.0025	1	05/29/25 09:30	07/08/25 14:10	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0012	1	05/29/25 09:30	07/08/25 14:10	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00015	1	05/29/25 09:30	07/08/25 14:10	7440-28-0	
WCOL 7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - West Columbia								
Mercury	ND	mg/L	0.00020	0.000091	1	05/24/25 14:49	05/27/25 19:10	7439-97-6	

REPORT OF LABORATORY ANALYSIS

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(704)875-9092

QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92798335

QC Batch: 2526409
QC Batch Method: 3015
Analysis Method: EPA 6020B
Analysis Description: Metals (ICPMS) 6020B
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92798335001, 92798335002, 92798335003, 92798335004

METHOD BLANK: R4227855-5 Matrix: Water
Associated Lab Samples: 92798335001, 92798335002, 92798335003, 92798335004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lithium	mg/L	ND	0.0300	0.000600	06/09/25 22:00	

LABORATORY CONTROL SAMPLE: R4227855-13

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	0.0500	0.0545	109	80.0-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R4227855-15 R4227855-16

Parameter	Units	L1862842-01 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	mg/L	ND	0.0500	0.0500	0.0524	0.0542	105	108	75.0-125	3.38	20	

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92798335

QC Batch: 937835 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92798335001, 92798335002, 92798335003, 92798335004

METHOD BLANK: 4819988 Matrix: Water
Associated Lab Samples: 92798335001, 92798335002, 92798335003, 92798335004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	05/27/25 11:09	

LABORATORY CONTROL SAMPLE: 4819989

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	250	100	90-110	

SAMPLE DUPLICATE: 4819990

Parameter	Units	92798169001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	270	266	1	25	

SAMPLE DUPLICATE: 4819991

Parameter	Units	92798318002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	160	174	8	25	

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92798335

QC Batch: 937375
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92798335001, 92798335002, 92798335003, 92798335004

METHOD BLANK: 4817655 Matrix: Water
Associated Lab Samples: 92798335001, 92798335002, 92798335003, 92798335004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	05/22/25 21:42	
Fluoride	mg/L	ND	0.10	0.050	05/22/25 21:42	
Sulfate	mg/L	ND	1.0	0.50	05/22/25 21:42	

LABORATORY CONTROL SAMPLE: 4817656

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.6	101	90-110	
Fluoride	mg/L	2.5	2.6	105	90-110	
Sulfate	mg/L	50	51.0	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4817659 4817660

Parameter	Units	92798335002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	50	50	50.0	51.6	100	103	90-110	3	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.6	100	103	90-110	3	10	
Sulfate	mg/L	ND	50	50	50.1	51.5	100	103	90-110	3	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4817657 4817658

Parameter	Units	92798211002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	12.0	50	50	61.4	62.3	99	101	90-110	1	10	
Fluoride	mg/L	0.12	2.5	2.5	2.6	2.7	100	102	90-110	2	10	
Sulfate	mg/L	6.9	50	50	56.9	57.8	100	102	90-110	2	10	

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92798335

QC Batch: 938159
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: WC 6020B MET
Laboratory: Pace Analytical Services - West Columbia
Associated Lab Samples: 92798335001, 92798335002, 92798335003, 92798335004

METHOD BLANK: 4821582 Matrix: Water
Associated Lab Samples: 92798335001, 92798335002, 92798335003, 92798335004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00050	06/05/25 16:13	
Arsenic	mg/L	ND	0.0050	0.0012	06/05/25 16:13	
Barium	mg/L	ND	0.0050	0.0012	06/05/25 16:13	
Beryllium	mg/L	ND	0.00050	0.00015	06/05/25 16:13	
Boron	mg/L	ND	0.040	0.0062	06/05/25 16:13	
Cadmium	mg/L	ND	0.00050	0.00012	06/05/25 16:13	
Calcium	mg/L	ND	1.0	0.10	06/05/25 16:13	
Chromium	mg/L	ND	0.0050	0.0012	06/05/25 16:13	
Cobalt	mg/L	ND	0.0050	0.0012	06/05/25 16:13	
Lead	mg/L	ND	0.0010	0.00025	06/05/25 16:13	
Molybdenum	mg/L	ND	0.010	0.0025	06/06/25 10:51	
Selenium	mg/L	ND	0.0050	0.0012	06/05/25 16:13	
Thallium	mg/L	ND	0.0010	0.00015	06/05/25 16:13	

LABORATORY CONTROL SAMPLE: 4821583

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	100	80-120	
Arsenic	mg/L	0.1	0.097	97	80-120	
Barium	mg/L	0.1	0.095	95	80-120	
Beryllium	mg/L	0.1	0.093	93	80-120	
Boron	mg/L	0.1	0.10	100	80-120	
Cadmium	mg/L	0.1	0.096	96	80-120	
Calcium	mg/L	1	1.2	117	80-120	
Chromium	mg/L	0.1	0.10	104	80-120	
Cobalt	mg/L	0.1	0.11	107	80-120	
Lead	mg/L	0.1	0.11	111	80-120	
Molybdenum	mg/L	0.1	0.10	102	80-120	
Selenium	mg/L	0.1	0.093	93	80-120	
Thallium	mg/L	0.1	0.098	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4821584 4821585

Parameter	Units	92798440008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	103	102	75-125	1	20	
Arsenic	mg/L	27.8 ug/L	0.1	0.1	0.13	0.12	101	96	75-125	4	20	

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92798335

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4821584 4821585

Parameter	Units	92798440008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	202 ug/L	0.1	0.1	0.29	0.30	92	97	75-125	2	20	
Beryllium	mg/L	ND	0.1	0.1	0.097	0.097	97	97	75-125	1	20	
Boron	mg/L	1230 ug/L	0.1	0.1	1.3	1.3	84	66	75-125	1	20	M1
Cadmium	mg/L	ND	0.1	0.1	0.095	0.095	95	95	75-125	0	20	
Calcium	mg/L	48300 ug/L	1	1	48.0	49.0	-25	79	75-125	2	20	M1
Chromium	mg/L	1.3J ug/L	0.1	0.1	0.099	0.096	98	95	75-125	3	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.097	99	96	75-125	3	20	
Lead	mg/L	ND	0.1	0.1	0.098	0.097	98	97	75-125	1	20	
Molybdenum	mg/L	ND	0.1	0.1	0.090	0.090	90	90	75-125	0	20	
Selenium	mg/L	1.6J ug/L	0.1	0.1	0.098	0.094	97	92	75-125	5	20	
Thallium	mg/L	ND	0.1	0.1	0.10	0.10	103	103	75-125	0	20	

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92798335

QC Batch: 937728
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: WCOL 7470 Mercury
Laboratory: Pace Analytical Services - West Columbia
Associated Lab Samples: 92798335001, 92798335002, 92798335003, 92798335004

METHOD BLANK: 4819650 Matrix: Water
Associated Lab Samples: 92798335001, 92798335002, 92798335003, 92798335004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000091	05/27/25 18:06	

LABORATORY CONTROL SAMPLE: 4819651

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.002	0.0019	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4819652 4819653

Parameter	Units	92798027009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.002	0.002	0.0020	0.0019	98	97	80-120	2	20	

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QUALIFIERS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92798335

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

J	Analyte detected below the reporting limit, therefore result is an estimate. This qualifier is also used for all TICs.
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: YAT AP-3, A, B/B', R6
Pace Project No.: 92798335

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92798335001	**YAT-YGWC-50**	3015	2526409	EPA 6020B	2526409
92798335002	**YAT-AMA-R6-EB-1**	3015	2526409	EPA 6020B	2526409
92798335003	**YAT-AMA-R6-FB-1**	3015	2526409	EPA 6020B	2526409
92798335004	**YAT-AMA-R6-FD-1**	3015	2526409	EPA 6020B	2526409
92798335001	**YAT-YGWC-50**	SM 2540C-2015	937835		
92798335002	**YAT-AMA-R6-EB-1**	SM 2540C-2015	937835		
92798335003	**YAT-AMA-R6-FB-1**	SM 2540C-2015	937835		
92798335004	**YAT-AMA-R6-FD-1**	SM 2540C-2015	937835		
92798335001	**YAT-YGWC-50**	EPA 300.0 Rev 2.1 1993	937375		
92798335002	**YAT-AMA-R6-EB-1**	EPA 300.0 Rev 2.1 1993	937375		
92798335003	**YAT-AMA-R6-FB-1**	EPA 300.0 Rev 2.1 1993	937375		
92798335004	**YAT-AMA-R6-FD-1**	EPA 300.0 Rev 2.1 1993	937375		
92798335001	**YAT-YGWC-50**	EPA 3005A	938159	EPA 6020B	940351
92798335002	**YAT-AMA-R6-EB-1**	EPA 3005A	938159	EPA 6020B	940351
92798335003	**YAT-AMA-R6-FB-1**	EPA 3005A	938159	EPA 6020B	940351
92798335004	**YAT-AMA-R6-FD-1**	EPA 3005A	938159	EPA 6020B	940351
92798335001	**YAT-YGWC-50**	EPA 7470A	937728	EPA 7470A	938092
92798335002	**YAT-AMA-R6-EB-1**	EPA 7470A	937728	EPA 7470A	938092
92798335003	**YAT-AMA-R6-FB-1**	EPA 7470A	937728	EPA 7470A	938092
92798335004	**YAT-AMA-R6-FD-1**	EPA 7470A	937728	EPA 7470A	938092

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

Effective Date: 05/24/2024

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Gallower - Yates

Project #: **WO# : 92798335**

92798335

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

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

Date/Initials Person Examining Contents:_____

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

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

Thermometer: ☐ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 0.7 Correction Factor: Add/Subtract (°C) 0

Cooler Temp Corrected (°C): 0.7

Temp should be above freezing to 6°C

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

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

*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 #

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

Client GA Power Profile/EZ (Circle one) #6561 Notes

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)	BP1N	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)	BP3N	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)
CC			AS		SI		WC																				SI				
1		1	1		2		1																				1				
2		1	1		2		1																				1				
3		1	1		2		1																				1				
4		1	1		2		1																				1				
5																															
6																															
7																															
8																															
9																															
10																															
11																															
12																															

pH Adjustment Log for Preserved Samples

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

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

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

WO# : 92798335

PM: BV **Due Date: 06/06/25**

CLIENT: 92-GP-Yates

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	roslingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-OTH-20250521	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', R6		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. CL2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment	Preservation non-conformance identified for sample.
YAT-YGWC-50	WG	G	05/21/25	1325	-----	-----		6		X	X	X	X	See Remarks 001	
YAT-AMA-R6-EB-1	WG	G	05/21/25	1255	-----	-----		6		X	X	X	X	See Remarks 002	
YAT-AMA-R6-FB-1	WG	G	05/21/25	1410	-----	-----		6		X	X	X	X	See Remarks 003	
YAT-AMA-R6-FD-1	WG	G	05/21/25	----	-----	-----		6		X	X	X	X	See Remarks 004	

Specify Container Size **: 3 3 2 1

Identify Container Preservative Type***: 2 1 1 2

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only

Proj. Mgr: Bonnie Vang

AcctNum / Client ID:

Table #:

Profile / Template: 16561

Prelog / Bottle Ord. ID:

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.

Collected By:
Printed Name: (Arcadis) David Prouty
Signature: (Arcadis)

Additional Instructions from Pace®:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
David Prouty, Arcadis	5/22/25 1355		5/22/25 1355	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In-Person [ ] Courier
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	[ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v01_082123 ©

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Huntersville, NC 28078
(704)875-9092

June 24, 2025

Trey Singleton
Southern Company
241 Ralp McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: YAT AP-3, A, B/B', R6- RAD
Pace Project No.: 92798348

Dear Trey Singleton:

Enclosed are the analytical results for sample(s) received by the laboratory on May 22, 2025. 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
704-977-0968
Project Manager

Enclosures

cc: Geoffrey Gay, Arcadis-ATL
Laura Midkiff, Southern Company
Alex Simpson, Arcadis
Jessica Ware, Arcadis
Albert Zumbuhl, Arcadis

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CERTIFICATIONS

Project: YAT AP-3, A, B/B', R6- RAD
Pace Project No.: 92798348

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
ANABISO/IEC 17025:2017 Rad Cert#: L24170
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 2950
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA010
Louisiana DEQ/TNI Certification #: 04086
Maine Certification #: 2023021
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 #: PA014572023-03
New Hampshire/TNI Certification #: 297622
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 #: PA200002-015
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN02867
Texas/TNI Certification #: T104704188-22-18
Utah/TNI Certification #: PA014572223-14
USDA Soil Permit #: 525-23-67-77263
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

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SAMPLE SUMMARY

Project: YAT AP-3, A, B/B', R6- RAD
Pace Project No.: 92798348

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92798348001	**YAT-YGWC-50**	Water	05/21/25 13:25	05/22/25 13:55
92798348002	**YAT-AMA-R6-EB-1**	Water	05/21/25 12:55	05/22/25 13:55
92798348003	**YAT-AMA-R6-FB-1**	Water	05/21/25 14:10	05/22/25 13:55
92798348004	**YAT-AMA-R6-FD-1**	Water	05/21/25 00:00	05/22/25 13:55

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SAMPLE ANALYTE COUNT

Project: YAT AP-3, A, B/B', R6- RAD
Pace Project No.: 92798348

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92798348001	**YAT-YGWC-50**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92798348002	**YAT-AMA-R6-EB-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92798348003	**YAT-AMA-R6-FB-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92798348004	**YAT-AMA-R6-FD-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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SUMMARY OF DETECTION

Project: YAT AP-3, A, B/B', R6- RAD
Pace Project No.: 92798348

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92798348001	**YAT-YGWC-50**					
EPA 9315	Radium-226	0.165U ± 0.123 (0.222) C:85% T:NA	pCi/L		06/23/25 08:15	
EPA 9320	Radium-228	0.698U ± 0.505 (0.984) C:84% T:64%	pCi/L		06/17/25 14:35	
Total Radium Calculation	Total Radium	0.863U ± 0.628 (1.21)	pCi/L		06/23/25 16:12	
92798348002	**YAT-AMA-R6-EB-1**					
EPA 9315	Radium-226	0.0471U ± 0.115 (0.273) C:65% T:NA	pCi/L		06/23/25 08:03	
EPA 9320	Radium-228	0.561U ± 0.397 (0.754) C:79% T:81%	pCi/L		06/17/25 14:36	
Total Radium Calculation	Total Radium	0.608U ± 0.512 (1.03)	pCi/L		06/23/25 16:12	
92798348003	**YAT-AMA-R6-FB-1**					
EPA 9315	Radium-226	0.216U ± 0.187 (0.356) C:51% T:NA	pCi/L		06/23/25 08:03	
EPA 9320	Radium-228	0.195U ± 0.301 (0.651) C:84% T:87%	pCi/L		06/17/25 14:36	
Total Radium Calculation	Total Radium	0.411U ± 0.488 (1.01)	pCi/L		06/23/25 16:12	
92798348004	**YAT-AMA-R6-FD-1**					
EPA 9315	Radium-226	0.0364U ± 0.120 (0.292) C:69% T:NA	pCi/L		06/23/25 08:03	
EPA 9320	Radium-228	0.297U ± 0.567 (1.24) C:78% T:65%	pCi/L		06/17/25 14:36	
Total Radium Calculation	Total Radium	0.333U ± 0.687 (1.53)	pCi/L		06/23/25 16:12	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RAD
Pace Project No.: 92798348

Sample: YAT-YGWC-50 **Lab ID: 92798348001** Collected: 05/21/25 13:25 Received: 05/22/25 13:55 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	**0.165U ± 0.123 (0.222) C:85% T:NA**	pCi/L	06/23/25 08:15	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.698U ± 0.505 (0.984) C:84% T:64%**	pCi/L	06/17/25 14:35	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.863U ± 0.628 (1.21)**	pCi/L	06/23/25 16:12	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RAD
Pace Project No.: 92798348

Sample: YAT-AMA-R6-EB-1 **Lab ID: 92798348002** Collected: 05/21/25 12:55 Received: 05/22/25 13:55 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	**0.0471U ± 0.115 (0.273) C:65% T:NA**	pCi/L	06/23/25 08:03	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.561U ± 0.397 (0.754) C:79% T:81%**	pCi/L	06/17/25 14:36	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.608U ± 0.512 (1.03)**	pCi/L	06/23/25 16:12	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RAD
Pace Project No.: 92798348

Sample: YAT-AMA-R6-FB-1 **Lab ID: 92798348003** Collected: 05/21/25 14:10 Received: 05/22/25 13:55 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	**0.216U ± 0.187 (0.356) C:51% T:NA**	pCi/L	06/23/25 08:03	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.195U ± 0.301 (0.651) C:84% T:87%**	pCi/L	06/17/25 14:36	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.411U ± 0.488 (1.01)**	pCi/L	06/23/25 16:12	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RAD
Pace Project No.: 92798348

Sample: YAT-AMA-R6-FD-1 **Lab ID: 92798348004** Collected: 05/21/25 00:00 Received: 05/22/25 13:55 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	**0.0364U ± 0.120 (0.292) C:69% T:NA**	pCi/L	06/23/25 08:03	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.297U ± 0.567 (1.24) C:78% T:65%**	pCi/L	06/17/25 14:36	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.333U ± 0.687 (1.53)**	pCi/L	06/23/25 16:12	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RAD
Pace Project No.: 92798348

QC Batch: 748729
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92798348001, 92798348002, 92798348003, 92798348004

METHOD BLANK: 3646747 Matrix: Water
Associated Lab Samples: 92798348001, 92798348002, 92798348003, 92798348004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0306 ± 0.0944 (0.231) C:80% T:NA	pCi/L	06/23/25 08:15	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RAD
Pace Project No.: 92798348

QC Batch: 748730
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92798348001, 92798348002, 92798348003, 92798348004

METHOD BLANK: 3646748 Matrix: Water
Associated Lab Samples: 92798348001, 92798348002, 92798348003, 92798348004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.330 ± 0.397 (0.838) C:83% T:77%	pCi/L	06/17/25 14:35	

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: YAT AP-3, A, B/B', R6- RAD
Pace Project No.: 92798348

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: YAT AP-3, A, B/B', R6- RAD
Pace Project No.: 92798348

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92798348001	**YAT-YGWC-50**	EPA 9315	748729		
92798348002	**YAT-AMA-R6-EB-1**	EPA 9315	748729		
92798348003	**YAT-AMA-R6-FB-1**	EPA 9315	748729		
92798348004	**YAT-AMA-R6-FD-1**	EPA 9315	748729		
92798348001	**YAT-YGWC-50**	EPA 9320	748730		
92798348002	**YAT-AMA-R6-EB-1**	EPA 9320	748730		
92798348003	**YAT-AMA-R6-FB-1**	EPA 9320	748730		
92798348004	**YAT-AMA-R6-FD-1**	EPA 9320	748730		
92798348001	**YAT-YGWC-50**	Total Radium Calculation	753783		
92798348002	**YAT-AMA-R6-EB-1**	Total Radium Calculation	753783		
92798348003	**YAT-AMA-R6-FB-1**	Total Radium Calculation	753783		
92798348004	**YAT-AMA-R6-FD-1**	Total Radium Calculation	753783		

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Pace	DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt
	Effective Date: 05/24/2024

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

Sample Condition Upon Receipt

Client Name: Gardner-Yates

Project # **WO# : 92798348**

92798348

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

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

Date/Initials Person Examining Contents:_____

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

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

Thermometer:
☐ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 0.7 Correction Factor: Add/Subtract (°C) 0

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

Cooler Temp Corrected (°C): 0.7

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

*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 #

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

Client GA Power Profile/EZ (Circle one) 16516 Notes

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)	BP1N	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)	BP3N	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)
CC			AS		SI		WC																				SI				
1		1	1		2		1 ✓																				1 ✓				
2		1	1		2		1 ✓																				1 ✓				
3		1	1		2		1 ✓																				1 ✓				
4		1	1		2		1 ✓																				1 ✓				
5																															
6																															
7																															
8																															
9																															
10																															
11																															
12																															

pH Adjustment Log for Preserved Samples

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

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

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

WO# : 92798348

PM: BV **Due Date: 06/13/25**

CLIENT: 92-GP-Yates

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-OTH-20250521	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', R6		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment
YAT-YGWC-50	WG	G	05/21/25	1325	-----	-----		6		X	X	X	X	See Remarks 001
YAT-AMA-R6-EB-1	WG	G	05/21/25	1255	-----	-----		6		X	X	X	X	See Remarks 002
YAT-AMA-R6-FB-1	WG	G	05/21/25	1410	-----	-----		6		X	X	X	X	See Remarks 003
YAT-AMA-R6-FD-1	WG	G	05/21/25	—	-----	-----		6		X	X	X	X	See Remarks 004

Specify Container Size **: 3 3 2 1

Identify Container Preservative Type***: 2 1 1 2

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only

Proj. Mgr: Bonnie Vang

AcctNum / Client ID:

Table #:

Profile / Template: 16561

Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample.

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.

Collected By:
Printed Name: (Arcadis) David Prouty
Signature: (Arcadis)

Additional Instructions from Pace®:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
David Prouty, Arcadis	5/22/25 1355		5/22/25 1355	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	VAL
Date:	6/13/2025
Worklist:	85459
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3646748
MB concentration:	0.330
M/B 2 Sigma CSU:	0.397
MB MDC:	0.838
MB Numerical Performance Indicator:	1.63
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS85459	LCSD85459
Count Date:	6/17/2025	6/17/2025
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	32.222	32.222
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.821	0.823
Target Conc. (pCi/L, g, F):	3.927	3.914
Uncertainty (Calculated):	0.192	0.192
Result (pCi/L, g, F):	3.635	2.688
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.864	0.724
Numerical Performance Indicator:	-0.65	-3.21
Percent Recovery:	92.57%	68.68%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

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:		

Duplicate Sample Assessment		
Sample I.D.:	LCS85459	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD85459	
Sample Result (pCi/L, g, F):	3.635	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.864	
Sample Duplicate Result (pCi/L, g, F):	2.688	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.724	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	1.647	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	29.63%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

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:		
(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:

6/16/25

6-20-25
JJS

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	6/1/2025
Worklist:	85458
Matrix:	W

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3646747
MB concentration:	0.031
M/B 2 Sigma CSU:	0.094
MB MDC:	0.231
MB Numerical Performance Indicator:	0.63
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS85458	LCSD85458
Count Date:	6/23/2025	6/23/2025
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.011	25.011
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.502	0.506
Target Conc. (pCi/L, g, F):	4.982	4.940
Uncertainty (Calculated):	0.234	0.232
Result (pCi/L, g, F):	4.808	5.381
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.849	0.955
Numerical Performance Indicator:	-0.39	0.88
Percent Recovery:	96.50%	108.94%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

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:		

Duplicate Sample Assessment		
Sample I.D.:	LCS85458	
Duplicate Sample I.D.	LCSD85458	
Sample Result (pCi/L, g, F):	4.808	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.849	
Sample Duplicate Result (pCi/L, g, F):	5.381	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.955	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-0.880	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	12.10%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	N/A	
% RPD Limit:	25%	

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:		
(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:

CT 6-23-25

VAM 6/23/25

Upgradient Wells

Georgia Power Co. – Plant Yates

Data Review Report

Metals, General Chemistry, and Radium Analyses

SDGs #92781909 and 92781912

Analyses Performed By:
Pace Analytical Services – West Columbia, South Carolina
Pace Analytical Services – Asheville, North Carolina
Pace National – Mt. Juliet, Tennessee
Pace Analytical Services – Greensburg, Pennsylvania

Report #58785R
Review Level: Tier II
Project: 30143607.3D, 30113037.3D, 30143622.3D, 30143623.3D, 30143625.3D, 30143626.3D

Summary

This Data Review Report summarizes the review of Sample Delivery Groups (SDGs) #92781909 and 92781912 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-17S	92781909001 92781912001	Water	2/25/2025		X	X	X
YAT-YGWA-18S	92781909002 92781912002	Water	2/25/2025		X	X	X
YAT-YGWA-18I	92781909003 92781912003	Water	2/25/2025		X	X	X
YAT-YGWA-39	92781909004 92781912004	Water	2/25/2025		X	X	X
YAT-YGWA-40	92781909005 92781912005	Water	2/25/2025		X	X	X
YAT-UGRD-FD-2	92781909006 92781912006	Water	2/25/2025	YAT-YGWA-18S	X	X	X
YAT-YGWA-21I	92781909007 92781912007	Water	2/25/2025		X	X	X
YAT-YGWA-4I	92781909008 92781912008	Water	2/25/2025		X	X	X
YAT-YGWA-5I	92781909009 92781912009	Water	2/25/2025		X	X	X
YAT-YGWA-5D	92781909010 92781912010	Water	2/25/2025		X	X	X
YAT-YGWA-20S	92781909011 92781912011	Water	2/25/2025		X	X	X
YAT-UGRD-EB-2	92781909012 92781912012	Water	2/25/2025		X	X	X

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					RAD	MET	GEN CHEM
YAT-UGRD-FB-2	92781909013 92781912013	Water	2/25/2025		X	X	X
YAT-YGWA-30I	92781909014 92781912014	Water	2/25/2025		X	X	X
YAT-YGWA-14S	92781909015 92781912015	Water	2/25/2025		X	X	X
YAT-YGWA-2I	92781909016 92781912016	Water	2/25/2025		X	X	X
YAT-YGWA-47	92781909017 92781912017	Water	2/25/2025		X	X	X
YAT-UGRD-FB-1	92781909018 92781912018	Water	2/25/2025		X	X	X
YAT-YGWA-1I	92781909019 92781912019	Water	2/25/2025		X	X	X
YAT-YGWA-1D	92781909020 92781912020	Water	2/25/2025		X	X	X
YAT-YGWA-3I	92781909021 92781912021	Water	2/25/2025		X	X	X
YAT-YGWA-3D	92781909022 92781912022	Water	2/25/2025		X	X	X
YAT-UGRD-EB-1	92781909023 92781912023	Water	2/25/2025		X	X	X
YAT-UGRD-FD-1	92781909024 92781912024	Water	2/25/2025	YAT-YGWA-1I	X	X	X

Notes:

1. Metals analysis performed by Pace Analytical Services – West Columbia, South Carolina.
2. Mercury, alkalinity, total dissolved solids, and anions (chloride, fluoride, and sulfate) analysis performed by Pace Analytical Services – Asheville, North Carolina.
3. Lithium analysis performed by Pace National – Mt. Juliet, Tennessee.
4. Radium analysis performed by Pace Analytical Services – Greensburg, Pennsylvania.

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 6020B, 7470A, 9315, and 9320; Standard Method (SM) 2320B and SM2540C; 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.

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 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/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.

The MS/MSD analysis was performed using sample YAT-YGWA-5I in association with SW-846 6020B analysis. The concentration of sodium in the unspiked analysis was greater than four-times the spike concentration, hence, the SW-846 6020B MS/MSD sample results were not evaluated for this analyte.

The MS/MSD analysis performed using samples YAT-YGWA-17S and YAT-YGWA-3I in association with lithium by method SW-846 6020B analysis exhibited recoveries within the control limits.

The MS/MSD analysis performed using samples YAT-YGWA-17S and YAT-YGWA-1I in association with SW-846 7470A 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.

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

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YAT-YGWA-1I / YAT-UGRD-FD-1	Lithium	0.00270 J	0.00287 J	AC
	Barium	0.0083	0.0080	
	Calcium	1.8	1.7	
	Cobalt	0.0014 J	0.0013 J	
	Molybdenum	0.0032 J	0.0032 J	
	Potassium	2.0	2.0	
	Sodium	4.8	4.7	
	Magnesium	1.4	1.4	0.0%
YAT-YGWA-18S / YAT-UGRD-FD-2	Lithium	0.00129 J	0.00123 J	AC
	Barium	0.014	0.013	
	Calcium	0.88 J	0.89 J	
	Chromium	0.0050 U	0.0013 J	
	Potassium	0.52	0.53	

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
	Magnesium	0.94	0.96	2.1%
	Sodium	8.8	8.9	1.1%

Note:
AC = Acceptable

The differences in the results between the parent sample YAT-YGWA-1I and field duplicate sample YAT-UGRD-FD-1 were acceptable.

The differences in the results between the parent sample YAT-YGWA-18S and field duplicate sample YAT-UGRD-FD-2 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 6020B/7470A	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
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
Alkalinity by SM2320B	Water	14 days from collection to analysis	Cool to <6°C
Total Dissolved Solids (TDS) by SM2540C	Water	7 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-UGRD-FB-1 and YAT-YGWA-1I in association with alkalinity analysis exhibited recoveries within the control limits.

The MS/MSD analysis performed using samples YAT-YGWA-40 and YAT-YGWA-14S 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.

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.

The laboratory duplicate analysis performed using samples YAT-YGWA-39, YAT-YGWA-30I, and YAT-UGRD-FD-1 in association with TDS analysis exhibited RPDs within the control limit.

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-YGWA-1I / YAT-UGRD-FD-1	Alkalinity, Bicarbonate (CaCO3)	15.0	15.2	AC
	Alkalinity, Total as CaCO3	15.0	15.2	
	Total Dissolved Solids	47.0	51.0	
	Chloride	1.1	1.1	
	Fluoride	0.060 J	0.061 J	
	Sulfate	3.5	3.6	
YAT-YGWA-18S / YAT-UGRD-FD-2	Alkalinity, Bicarbonate (CaCO3)	9.3	9.5	AC
	Alkalinity, Total as CaCO3	9.3	9.5	
	Total Dissolved Solids	69.0	60.0	
	Fluoride	0.10 U	0.055 J	
	Sulfate	0.59 J	0.61 J	

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
	Chloride	6.5	6.4	1.6%

Note:
AC Acceptable

The differences in the results between the parent sample YAT-YGWA-1I and field duplicate sample YAT-UGRD-FD-1 were acceptable.

The differences in the results between the parent sample YAT-YGWA-18S and field duplicate sample YAT-UGRD-FD-2 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: SM2320B, 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:

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

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-228 and total radium were detected in the equipment blank sample YAT-UGRD-EB-1. The radium-228 and total radium results in sample YAT-YGWA-1D, YAT-YGWA-3I, YAT-YGWA-3D were qualified as estimated (J).

Radium-226 and Radium-228 were detected in the method blanks, however, the activity was measured as less than the 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.

x_0 = measured concentration of the unspiked sample.

c = spike concentration added.

$u^2(x)$, $u^2(x0)$, $u^2(c)$ = 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.

The laboratory duplicate performed on sample location YAT-YGWA-1I in association with Radium-226 analysis exhibited an acceptable difference between the results.

Laboratory duplicate analysis was not performed using a sample from this SDG in association with Radium-228 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-YGWA-1I / YAT-UGRD-FD-1	Radium-226	0.168U ± 0.145	-0.0914U ± 0.104	AC
	Radium-228	0.810U ± 0.492	0.270U ± 0.436	
	Total Radium	0.978U ± 0.637	0.270U ± 0.540	
YAT-YGWA-18S / YAT-UGRD-FD-2	Radium-226	-0.0460U ± 0.140	0.0937U ± 0.111	AC
	Radium-228	0.359U ± 0.372	0.462U ± 0.344	
	Total Radium	0.359U ± 0.512	0.556U ± 0.455	

Note:
AC = Acceptable

The results were below the MDC in the parent sample YAT-YGWA-1I and field duplicate sample YAT-UGRD-FD-1.

The results were below the MDC in the parent sample YAT-YGWA-18S and field duplicate sample YAT-UGRD-FD-2.

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 were qualified as “U” by the laboratory as applicable.

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 17, 2025

PEER REVIEW: Dennis Capria

DATE: April 18, 2025

Chain of Custody / Data Qualifier Summary Table

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

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92781909

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2025S1	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT Pooled Upgradient	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [✓] No

Analysis:

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. CL2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment	Preservation non-conformance identified for sample
YAT-YGWA-47	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWA-21I	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWA-4I	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWA-5I	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWA-5D	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWA-17S	WG	G	2/25/25	1305	—	—		7		X	X	X	X	X	See Remarks DU1	
YAT-YGWA-18S	WG	G	2/25/25	1012	—	—		7		X	X	X	X	X	See Remarks DU2	
YAT-YGWA-18I	WG	G	2/25/25	1210	—	—		7		X	X	X	X	X	See Remarks DU3	
YAT-YGWA-20S	WG	G						7		X	X	X	X	X	See Remarks	
															See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) Jessica Ware
Signature: (Arcadis) Jessica Ware

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Jessica Ware / Arcadis	2/26/25 0830	Trey Singleton / ARCADIS	2/26/25 0830
Trey Singleton / ARCADIS	2/26/25 1143	Logan Williams / Pace	2/26/25 1143
Logan Williams / Pace	2/26/25 1355	Charles Hanks	2/26/25 1355
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In- Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

Page: 1 of 10

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ENV-FRM-CORC-0019_v01_082123

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Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2025S1	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____
Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [✓] No
Analysis:

Specify Container Size **: 3 3 2 1 3
Identify Container Preservative Type***: 2 1 1 2 1
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment	Preservation non-conformance identified for sample
YAT-YGWA-30I	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWA-14S	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWA-39	WG	G	2/25/25	1522	—			7		X	X	X	X	X	See Remarks 004	
YAT-YGWA-40	WG	G	2/25/25	1421	—			7		X	X	X	X	X	See Remarks 005	
YAT-YGWA-1I	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWA-1D	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWA-2I	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWA-3I	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWA-3D	WG	G						7		X	X	X	X	X	See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B, 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - Jessica Ware
Signature: (Arcadis) - Jessica Ware

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Jessica Ware / Arcadis	2/26/25 0830	[illegible] / ARCADIS	2/26/25 0830
[illegible] / ARCADIS	2/26/25 1143	Ryan Williams / Pace	2/26/25 1143
Ryan Williams / Pace	2/26/25 1355	[illegible]	2/26/25 1355
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier
[ ] FedEx [ ] UPS [ ] Other

Page: 2 of 10

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ENV-FRM-CORQ-0019_v01_082123

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singletori
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202551	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____
Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [✓] No

Analysis:

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

Preservation non conformance identified for sample.

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment
YAT-UGRD-EB-1	WG	G						7		X	X	X	X	X	See Remarks
YAT-UGRD-FB-1	WG	G						7		X	X	X	X	X	See Remarks
YAT-UGRD-EB-2	WG	G						7		X	X	X	X	X	See Remarks
YAT-UGRD-FB-2	WG	G						7		X	X	X	X	X	See Remarks
YAT-UGRD-FD-1	WG	G						7		X	X	X	X	X	See Remarks
YAT-UGRD-FD-2	WG	G	2/25/25	—				7		X	X	X	X	X	See Remarks UUU

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) Jessica Ware
Signature: (Arcadis) Jessica Ware

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Jessica Ware/Arcadis	2/26/25 0830	ARCADIS	2/26/25 0830
ARCADIS	2/26/25 1143	Pace	2/26/25 1143
Pace	2/26/25 1355		2/26/25 1355

Tracking Number:

Delivered by: [ ] In- Person [ ] Courier
[ ] FedEX [ ] UPS [ ] Other

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Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202551	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT Pooled Upgradient	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; Acct/Nam / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment	Preservation non-conformance identified for sample
YAT-YGWA-47	WG	G			—	—		7		X	X	X	X	X	See Remarks	
YAT-YGWA-21I	WG	G	2/25/25	1415	—	—		7		X	X	X	X	X	See Remarks W7	
YAT-YGWA-4I	WG	G	2/25/25	0948	—	—		7		X	X	X	X	X	See Remarks W6	
YAT-YGWA-5I	WG	G	2/25/25	1057	—	—		7		X	X	X	X	X	See Remarks W9	
YAT-YGWA-5D	WG	G	2/25/25	1156	—	—		7		X	X	X	X	X	See Remarks W10	
YAT-YGWA-17S	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWA-18S	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWA-18I	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWA-20S	WG	G	2/25/25	1548	—	—		7		X	X	X	X	X	See Remarks W11	
															See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - KIM LIAPSZYNSKI
Signature: (Arcadis) -

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In- Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 4 of 10

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ENV-FRM-CORQ-0019_v01_082123 ©

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

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LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2025S1	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [✓] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment
YAT-UGRD-EB-1	WG	G						7		X	X	X	X	X	See Remarks
YAT-UGRD-FB-1	WG	G						7		X	X	X	X	X	See Remarks
YAT-UGRD-EB-2	WG	G	2/25/25	1610	—	—		7		X	X	X	X	X	See Remarks 012
YAT-UGRD-FB-2	WG	G	2/25/25	1206	—	—		7		X	X	X	X	X	See Remarks 013
YAT-UGRD-FD-1	WG	G						7		X	X	X	X	X	See Remarks
YAT-UGRD-FD-2	WG	G						7		X	X	X	X	X	See Remarks

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample.

** Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B, 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - KIM WAPSZYNSKI
Signature: (Arcadis) -

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
ARCADIS	2/26/25 1143	Ryan Williams / Pace	2/26/25 1143
Ryan Williams / Pace	2/26/25 1355	[signature]	2/26/25 1355

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

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Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

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LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202551	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT Pooled Upgradient	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. CL2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment
YAT-YGWA-30I	WG	G	2/25/25	1455				7		X	X	X	X	X	See Remarks 014
YAT-YGWA-14S	WG	G	2/25/25	1300				7		X	X	X	X	X	See Remarks 015
YAT-YGWA-39	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-40	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-1I	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-1D	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-2I	WG	G	2/25/25	1125				7		X	X	X	X	X	See Remarks 016
YAT-YGWA-3I	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-3D	WG	G						7		X	X	X	X	X	See Remarks

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non conformance identified for sample.

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Ti; 7040A: Hg.
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - Perry Studebaker
Signature: (Arcadis) - Perry Studebaker

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Perry Studebaker / Arcadis	2/26/25 0830	Trevor Williams / ARCADIS	2/26/25 0830
Trevor Williams / ARCADIS	2/26/25 1143	Wyan Williams / Pace	2/26/25 1143
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time: 2/26/25 1354
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In- Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other

Page: 6 of 10

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ENV-FRM-CORQ-0019_v01_082123

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

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LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202551	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT Pooled Upgradient	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____
Date Results Requested:

DW PWSID # or WW Permit # as applicable:
Field Filtered (if applicable): [ ] Yes [✓] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3
Identify Container Preservative Type***: 2 1 1 2 1
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment
YAT-YGWA-47	WG	G	2/25/25	1655	—	—		7		X	X	X	X	X	See Remarks 017
YAT-YGWA-21I	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-4I	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-5I	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-5D	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-17S	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-18S	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-18I	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-20S	WG	G						7		X	X	X	X	X	See Remarks
															See Remarks

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample.

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B, 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl, 7040A: Hg.
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - Perry Studebaker
Signature: (Arcadis) -

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Perry Studebaker / Arcadis	2/26/25 0830	[signature] / ARCADIS	2/26/25 0830
[signature] / ARCADIS	2/26/25 1143	Ryan Williams / Pace	2/26/25 1143
Ryan Williams / Pace	2/26/25 1355	[signature] 2/26/25	1355

Tracking Number:

Delivered by: [ ] In- Person [ ] Courier
[ ] FedEX [ ] UPS [ ] Other

Page: 7 of 10

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ENV-FRM-CORO-0019_v01_082123 ©

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202551	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____
Date Results Requested:

DW PWSID # or WW Permit # as applicable:
Field Filtered (if applicable): [ ] Yes [✓] No
Analysis:

Specify Container Size **: 3 3 2 1 3
Identify Container Preservative Type***: 2 1 1 2 1
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment	Preservation non-conformance identified for sample
YAT-UGRD-EB-1	WG	G						7		X	X	X	X	X	See Remarks	
YAT-UGRD-FB-1	WG	G	2/25/25	1535	—			7		X	X	X	X	X	See Remarks 018	
YAT-UGRD-EB-2	WG	G						7		X	X	X	X	X	See Remarks	
YAT-UGRD-FB-2	WG	G						7		X	X	X	X	X	See Remarks	
YAT-UGRD-FD-1	WG	G						7		X	X	X	X	X	See Remarks	
YAT-UGRD-FD-2	WG	G						7		X	X	X	X	X	See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App iV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - Perry Studebaker
Signature: (Arcadis) - Perry Studebaker

Additional instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Perry Studebaker / Arcadis	2/26/25 0830	Ryan Williams / ARCADIS	2/26/25 0830
Ryan Williams / ARCADIS	2/26/25 1143	Ryan Williams / Pace	2/26/25 1143
Ryan Williams / Pace	2/26/25 1355	Carlos Hale 2/26/25	1355
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

Page: 8 of 10

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ENV-FRM-CORO-0019_v01_082123 ©

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202551	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT Pooled Upgradient	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____
Date Results Requested:

OW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3
Identify Container Preservative Type***: 2 1 1 2 1
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment
YAT-YGWA-30I	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-14S	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-39	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-40	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-1I	WG	G	02/25/25	1640	—	—		7		X	X	X	X	X	See Remarks 019
YAT-YGWA-1D	WG	G	02/25/25	1425	—	—		7		X	X	X	X	X	See Remarks 020
YAT-YGWA-2I	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-3I	WG	G	02/25/25	1210	—	—		7		X	X	X	X	X	See Remarks 021
YAT-YGWA-3D	WG	G	02/25/25	1030	—	—		7		X	X	X	X	X	See Remarks 022

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:
Preservation non-conformance identified for sample

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - David Prouty
Signature: (Arcadis)

Additional Instructions from Pace®:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
	02/26/25 0815	ARCADIS	2/26/25 0815
ARCADIS	2/26/25 1143	Ryan Wilson / Pace	2/26/25 1143
Ryan Wilson / Pace	2/26/25 1355		2/26/25 1355

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

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Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202551	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample.

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment
YAT-UGRD-EB-1	WG	G	02/25/25	1730	—	—		7		X	X	X	X	X	See Remarks 023
YAT-UGRD-FB-1	WG	G						7		X	X	X	X	X	See Remarks
YAT-UGRD-EB-2	WG	G						7		X	X	X	X	X	See Remarks
YAT-UGRD-FB-2	WG	G						7		X	X	X	X	X	See Remarks
YAT-UGRD-FD-1	WG	G	02/25/25	—	—	—		7		X	X	X	X	X	See Remarks 024
YAT-UGRD-FD-2	WG	G						7		X	X	X	X	X	See Remarks

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) David Prouty
Signature: (Arcadis) David Prouty

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
David Prouty	02/26/25 0815	Arcadis	2/26/25 0815
Arcadis	2/26/25 1143	Ryan Williams / Pace	2/26/25 1143
Ryan Williams / Pace	2/26/25 1355	Charles Hanks	2/26/25 1355

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

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ENV-FRM-CORO-0019_v01_082123

SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier	Reason for Validation Qualifier
92781909	No qualifiers assigned						
92781912	YAT-YGWA-1D	EPA 9320	Radium-228	0.948±0.510	pCi/L	J	Equipment blank contamination
		Total Radium Calculation	Total Radium	1.24±0.671	pCi/L	J	Equipment blank contamination
	YAT-YGWA-3I	EPA 9320	Radium-228	0.934±0.432	pCi/L	J	Equipment blank contamination
		Total Radium Calculation	Total Radium	1.46±0.644	pCi/L	J	Equipment blank contamination
	YAT-YGWA-3D	EPA 9320	Radium-228	1.71±0.581	pCi/L	J	Equipment blank contamination
		Total Radium Calculation	Total Radium	3.04±0.937	pCi/L	J	Equipment blank contamination

Abbreviations:

pCi/L = picogram per liter

Qualifiers:

J = estimated result

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

March 24, 2025

Trey Singleton
Southern Company
241 Ralp McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Dear Trey Singleton:

Enclosed are the analytical results for sample(s) received by the laboratory on February 26, 2025. 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 National - Mt. Juliet
- Pace Analytical Services - Asheville
- Pace Analytical Services - West Columbia

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

Sincerely,

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

Enclosures

cc: Geoffrey Gay, Arcadis-ATL
Laura Midkiff, Southern Company
Alex Simpson, Arcadis
Jessica Ware, Arcadis
Albert Zumbuhl, Arcadis

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

CERTIFICATIONS

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Pace Analytical Services National

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

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 West Columbia

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

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92781909001	**YAT-YGWA-17S**	Water	02/25/25 13:05	02/26/25 13:55
92781909002	**YAT-YGWA-18S**	Water	02/25/25 10:12	02/26/25 13:55
92781909003	**YAT-YGWA-18I**	Water	02/25/25 12:10	02/26/25 13:55
92781909004	**YAT-YGWA-39**	Water	02/25/25 15:22	02/26/25 13:55
92781909005	**YAT-YGWA-40**	Water	02/25/25 14:21	02/26/25 13:55
92781909006	**YAT-UGRD-FD-2**	Water	02/25/25 00:00	02/26/25 13:55
92781909007	**YAT-YGWA-21I**	Water	02/25/25 14:15	02/26/25 13:55
92781909008	**YAT-YGWA-4I**	Water	02/25/25 09:48	02/26/25 13:55
92781909009	**YAT-YGWA-5I**	Water	02/25/25 10:57	02/26/25 13:55
92781909010	**YAT-YGWA-5D**	Water	02/25/25 11:56	02/26/25 13:55
92781909011	**YAT-YGWA-20S**	Water	02/25/25 15:48	02/26/25 13:55
92781909012	**YAT-UGRD-EB-2**	Water	02/25/25 16:10	02/26/25 13:55
92781909013	**YAT-UGRD-FB-2**	Water	02/25/25 12:06	02/26/25 13:55
92781909014	**YAT-YGWA-30I**	Water	02/25/25 14:55	02/26/25 13:55
92781909015	**YAT-YGWA-14S**	Water	02/25/25 13:00	02/26/25 13:55
92781909016	**YAT-YGWA-2I**	Water	02/25/25 11:25	02/26/25 13:55
92781909017	**YAT-YGWA-47**	Water	02/25/25 16:55	02/26/25 13:55
92781909018	**YAT-UGRD-FB-1**	Water	02/25/25 15:35	02/26/25 13:55
92781909019	**YAT-YGWA-1I**	Water	02/25/25 16:40	02/26/25 13:55
92781909020	**YAT-YGWA-1D**	Water	02/25/25 14:25	02/26/25 13:55
92781909021	**YAT-YGWA-3I**	Water	02/25/25 12:10	02/26/25 13:55
92781909022	**YAT-YGWA-3D**	Water	02/25/25 10:30	02/26/25 13:55
92781909023	**YAT-UGRD-EB-1**	Water	02/25/25 17:30	02/26/25 13:55
92781909024	**YAT-UGRD-FD-1**	Water	02/25/25 00:00	02/26/25 13:55

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92781909001	**YAT-YGWA-17S**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	CMW1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BK1, BW	16	PASI-WC
92781909002	**YAT-YGWA-18S**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	CMW1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BK1, BW	16	PASI-WC
92781909003	**YAT-YGWA-18I**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	CMW1	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BK1, BW	16	PASI-WC
92781909004	**YAT-YGWA-39**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BK1, BW	16	PASI-WC
92781909005	**YAT-YGWA-40**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BK1, BW	16	PASI-WC
92781909006	**YAT-UGRD-FD-2**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BK1, BW	16	PASI-WC
92781909007	**YAT-YGWA-21I**	EPA 6020B	JPD	1	PAN

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SAMPLE ANALYTE COUNT

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BK1, BW	16	PASI-WC
92781909008	**YAT-YGWA-4I**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BK1, BW	16	PASI-WC
92781909009	**YAT-YGWA-5I**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BK1, BW	16	PASI-WC
92781909010	**YAT-YGWA-5D**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BK1, BW	16	PASI-WC
92781909011	**YAT-YGWA-20S**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BK1, BW	16	PASI-WC
92781909012	**YAT-UGRD-EB-2**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BK1, BW	16	PASI-WC
92781909013	**YAT-UGRD-FB-2**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A

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SAMPLE ANALYTE COUNT

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BK1, BW	16	PASI-WC
92781909014	**YAT-YGWA-30I**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BK1, BW	16	PASI-WC
92781909015	**YAT-YGWA-14S**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BK1, BW	16	PASI-WC
92781909016	**YAT-YGWA-2I**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BK1, BW	16	PASI-WC
92781909017	**YAT-YGWA-47**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BK1, BW	16	PASI-WC
92781909018	**YAT-UGRD-FB-1**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BK1, BW	16	PASI-WC
92781909019	**YAT-YGWA-1I**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A

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SAMPLE ANALYTE COUNT

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2540C-2015	HCH	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BK1, BW	16	PASI-WC
92781909020	**YAT-YGWA-1D**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BK1, BW	16	PASI-WC
92781909021	**YAT-YGWA-3I**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BK1, BW	16	PASI-WC
92781909022	**YAT-YGWA-3D**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BK1, BW	16	PASI-WC
92781909023	**YAT-UGRD-EB-1**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BK1, BW	16	PASI-WC
92781909024	**YAT-UGRD-FD-1**	EPA 6020B	JPD	1	PAN
		EPA 7470A	MAB2	1	PASI-A
		SM 2320B-2011	SMS	3	PASI-A
		SM 2540C-2015	HCH	1	PASI-A
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	BK1, BW	16	PASI-WC

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

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SUMMARY OF DETECTION

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92781909001	**YAT-YGWA-17S**					
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	14.3	mg/L	5.0	02/28/25 23:32	
SM 2320B-2011	Alkalinity, Total as CaCO3	14.3	mg/L	5.0	02/28/25 23:32	
SM 2540C-2015	Total Dissolved Solids	93.0	mg/L	25.0	03/03/25 23:06	
EPA 300.0 Rev 2.1 1993	Chloride	11.4	mg/L	1.0	02/28/25 04:11	
EPA 300.0 Rev 2.1 1993	Sulfate	3.6	mg/L	1.0	02/28/25 04:11	
EPA 6020B	Barium	0.018	mg/L	0.0050	03/19/25 11:49	
EPA 6020B	Boron	0.0093J	mg/L	0.040	03/20/25 01:19	
EPA 6020B	Calcium	3.0	mg/L	1.0	03/19/25 11:49	
EPA 6020B	Magnesium	1.0	mg/L	0.050	03/19/25 11:49	
EPA 6020B	Potassium	0.41J	mg/L	0.50	03/19/25 11:49	
EPA 6020B	Sodium	15.0	mg/L	1.0	03/19/25 11:49	
92781909002	**YAT-YGWA-18S**					
EPA 6020B	Lithium	0.00129J	mg/L	0.0300	03/13/25 14:18	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	9.3	mg/L	5.0	02/28/25 23:37	
SM 2320B-2011	Alkalinity, Total as CaCO3	9.3	mg/L	5.0	02/28/25 23:37	
SM 2540C-2015	Total Dissolved Solids	69.0	mg/L	25.0	03/03/25 23:06	
EPA 300.0 Rev 2.1 1993	Chloride	6.5	mg/L	1.0	02/28/25 04:26	
EPA 300.0 Rev 2.1 1993	Sulfate	0.59J	mg/L	1.0	02/28/25 04:26	
EPA 6020B	Barium	0.014	mg/L	0.0050	03/19/25 11:54	
EPA 6020B	Calcium	0.88J	mg/L	1.0	03/19/25 11:54	
EPA 6020B	Magnesium	0.94	mg/L	0.050	03/19/25 11:54	
EPA 6020B	Potassium	0.52	mg/L	0.50	03/19/25 11:54	
EPA 6020B	Sodium	8.8	mg/L	1.0	03/19/25 11:54	
92781909003	**YAT-YGWA-18I**					
EPA 6020B	Lithium	0.00373J	mg/L	0.0300	03/13/25 14:21	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	35.3	mg/L	5.0	02/28/25 23:42	
SM 2320B-2011	Alkalinity, Total as CaCO3	35.3	mg/L	5.0	02/28/25 23:42	
SM 2540C-2015	Total Dissolved Solids	110	mg/L	25.0	03/03/25 23:06	
EPA 300.0 Rev 2.1 1993	Chloride	7.0	mg/L	1.0	02/28/25 04:41	
EPA 6020B	Barium	0.021	mg/L	0.0050	03/19/25 12:00	
EPA 6020B	Calcium	5.3	mg/L	1.0	03/19/25 12:00	
EPA 6020B	Magnesium	3.0	mg/L	0.050	03/19/25 12:00	
EPA 6020B	Potassium	1.0	mg/L	0.50	03/19/25 12:00	
EPA 6020B	Sodium	12.2	mg/L	1.0	03/19/25 12:00	
92781909004	**YAT-YGWA-39**					
EPA 6020B	Lithium	0.00608J	mg/L	0.0300	03/13/25 14:24	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	185	mg/L	5.0	03/04/25 20:00	
SM 2320B-2011	Alkalinity, Total as CaCO3	185	mg/L	5.0	03/04/25 20:00	
SM 2540C-2015	Total Dissolved Solids	228	mg/L	25.0	03/04/25 16:37	
EPA 300.0 Rev 2.1 1993	Chloride	3.5	mg/L	1.0	02/28/25 04:56	
EPA 300.0 Rev 2.1 1993	Fluoride	0.078J	mg/L	0.10	02/28/25 04:56	
EPA 300.0 Rev 2.1 1993	Sulfate	6.5	mg/L	1.0	02/28/25 04:56	
EPA 6020B	Barium	0.031	mg/L	0.0050	03/19/25 12:05	
EPA 6020B	Boron	0.13	mg/L	0.040	03/20/25 01:46	
EPA 6020B	Calcium	17.3	mg/L	1.0	03/19/25 12:05	
EPA 6020B	Magnesium	22.3	mg/L	0.050	03/19/25 12:05	

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SUMMARY OF DETECTION

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92781909004	**YAT-YGWA-39**					
EPA 6020B	Molybdenum	0.0056J	mg/L	0.010	03/19/25 12:05	
EPA 6020B	Potassium	6.0	mg/L	0.50	03/19/25 12:05	
EPA 6020B	Sodium	25.2	mg/L	1.0	03/19/25 12:05	
92781909005	**YAT-YGWA-40**					
EPA 6020B	Lithium	0.000836J	mg/L	0.0300	03/13/25 14:27	J
EPA 7470A	Mercury	0.00034	mg/L	0.00020	03/02/25 14:48	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	22.5	mg/L	5.0	02/28/25 23:47	
SM 2320B-2011	Alkalinity, Total as CaCO3	22.5	mg/L	5.0	02/28/25 23:47	
SM 2540C-2015	Total Dissolved Solids	86.0	mg/L	25.0	03/04/25 16:37	
EPA 300.0 Rev 2.1 1993	Chloride	4.5	mg/L	1.0	02/28/25 05:10	
EPA 300.0 Rev 2.1 1993	Fluoride	0.053J	mg/L	0.10	02/28/25 05:10	
EPA 300.0 Rev 2.1 1993	Sulfate	15.4	mg/L	1.0	02/28/25 05:10	
EPA 6020B	Barium	0.031	mg/L	0.0050	03/19/25 12:10	
EPA 6020B	Beryllium	0.00018J	mg/L	0.00050	03/19/25 12:10	
EPA 6020B	Boron	0.061	mg/L	0.040	03/20/25 01:55	
EPA 6020B	Calcium	4.8	mg/L	1.0	03/19/25 12:10	
EPA 6020B	Magnesium	2.8	mg/L	0.050	03/19/25 12:10	
EPA 6020B	Potassium	2.0	mg/L	0.50	03/19/25 12:10	
EPA 6020B	Sodium	9.7	mg/L	1.0	03/19/25 12:10	
92781909006	**YAT-UGRD-FD-2**					
EPA 6020B	Lithium	0.00123J	mg/L	0.0300	03/13/25 14:45	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	9.5	mg/L	5.0	03/01/25 00:01	
SM 2320B-2011	Alkalinity, Total as CaCO3	9.5	mg/L	5.0	03/01/25 00:01	
SM 2540C-2015	Total Dissolved Solids	60.0	mg/L	25.0	03/04/25 16:38	
EPA 300.0 Rev 2.1 1993	Chloride	6.4	mg/L	1.0	02/28/25 05:55	
EPA 300.0 Rev 2.1 1993	Fluoride	0.055J	mg/L	0.10	02/28/25 05:55	
EPA 300.0 Rev 2.1 1993	Sulfate	0.61J	mg/L	1.0	02/28/25 05:55	
EPA 6020B	Barium	0.013	mg/L	0.0050	03/19/25 12:15	
EPA 6020B	Calcium	0.89J	mg/L	1.0	03/19/25 12:15	
EPA 6020B	Chromium	0.0013J	mg/L	0.0050	03/19/25 12:15	
EPA 6020B	Magnesium	0.96	mg/L	0.050	03/19/25 12:15	
EPA 6020B	Potassium	0.53	mg/L	0.50	03/19/25 12:15	
EPA 6020B	Sodium	8.9	mg/L	1.0	03/19/25 12:15	
92781909007	**YAT-YGWA-21I**					
EPA 6020B	Lithium	0.00670J	mg/L	0.0300	03/13/25 14:48	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	68.2	mg/L	5.0	03/01/25 00:06	
SM 2320B-2011	Alkalinity, Total as CaCO3	68.2	mg/L	5.0	03/01/25 00:06	
SM 2540C-2015	Total Dissolved Solids	110	mg/L	25.0	03/04/25 16:38	
EPA 300.0 Rev 2.1 1993	Chloride	2.0	mg/L	1.0	02/28/25 06:10	
EPA 300.0 Rev 2.1 1993	Fluoride	0.088J	mg/L	0.10	02/28/25 06:10	
EPA 300.0 Rev 2.1 1993	Sulfate	3.3	mg/L	1.0	02/28/25 06:10	
EPA 6020B	Antimony	0.00054J	mg/L	0.0030	03/19/25 12:20	
EPA 6020B	Barium	0.0077	mg/L	0.0050	03/19/25 12:20	
EPA 6020B	Boron	0.0066J	mg/L	0.040	03/20/25 02:13	
EPA 6020B	Calcium	6.0	mg/L	1.0	03/19/25 12:20	
EPA 6020B	Cobalt	0.041	mg/L	0.0050	03/19/25 12:20	

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SUMMARY OF DETECTION

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92781909007	**YAT-YGWA-21I**					
EPA 6020B	Magnesium	3.2	mg/L	0.050	03/19/25 12:20	
EPA 6020B	Potassium	3.0	mg/L	0.50	03/19/25 12:20	
EPA 6020B	Sodium	19.9	mg/L	1.0	03/19/25 12:20	
92781909008	**YAT-YGWA-4I**					
EPA 6020B	Lithium	0.0125J	mg/L	0.0300	03/13/25 14:51	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	48.3	mg/L	5.0	03/04/25 20:15	
SM 2320B-2011	Alkalinity, Total as CaCO3	48.3	mg/L	5.0	03/04/25 20:15	
SM 2540C-2015	Total Dissolved Solids	105	mg/L	25.0	03/04/25 16:38	
EPA 300.0 Rev 2.1 1993	Chloride	4.5	mg/L	1.0	02/28/25 06:54	
EPA 300.0 Rev 2.1 1993	Fluoride	0.061J	mg/L	0.10	02/28/25 06:54	
EPA 300.0 Rev 2.1 1993	Sulfate	7.4	mg/L	1.0	02/28/25 06:54	
EPA 6020B	Barium	0.013	mg/L	0.0050	03/19/25 12:25	
EPA 6020B	Calcium	8.1	mg/L	1.0	03/19/25 12:25	
EPA 6020B	Magnesium	4.7	mg/L	0.050	03/19/25 12:25	
EPA 6020B	Potassium	3.6	mg/L	0.50	03/19/25 12:25	
EPA 6020B	Sodium	10.1	mg/L	1.0	03/19/25 12:25	
92781909009	**YAT-YGWA-5I**					
EPA 6020B	Lithium	0.00364J	mg/L	0.0300	03/13/25 14:54	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	25.4	mg/L	5.0	03/01/25 00:13	
SM 2320B-2011	Alkalinity, Total as CaCO3	25.4	mg/L	5.0	03/01/25 00:13	
SM 2540C-2015	Total Dissolved Solids	83.0	mg/L	25.0	03/04/25 16:38	
EPA 300.0 Rev 2.1 1993	Chloride	4.4	mg/L	1.0	02/27/25 23:44	
EPA 300.0 Rev 2.1 1993	Sulfate	2.2	mg/L	1.0	02/27/25 23:44	
EPA 6020B	Barium	0.020	mg/L	0.0050	03/19/25 12:41	
EPA 6020B	Calcium	2.8	mg/L	1.0	03/19/25 12:41	
EPA 6020B	Magnesium	2.7	mg/L	0.050	03/19/25 12:41	
EPA 6020B	Potassium	1.6	mg/L	0.50	03/19/25 12:41	
EPA 6020B	Sodium	11.0	mg/L	1.0	03/19/25 12:41	M1
92781909010	**YAT-YGWA-5D**					
EPA 6020B	Lithium	0.00582J	mg/L	0.0300	03/13/25 14:57	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	102	mg/L	5.0	03/01/25 00:18	
SM 2320B-2011	Alkalinity, Total as CaCO3	102	mg/L	5.0	03/01/25 00:18	
SM 2540C-2015	Total Dissolved Solids	146	mg/L	25.0	03/04/25 16:38	
EPA 300.0 Rev 2.1 1993	Chloride	2.8	mg/L	1.0	02/28/25 07:09	
EPA 300.0 Rev 2.1 1993	Fluoride	0.082J	mg/L	0.10	02/28/25 07:09	
EPA 300.0 Rev 2.1 1993	Sulfate	4.6	mg/L	1.0	02/28/25 07:09	
EPA 6020B	Barium	0.0081	mg/L	0.0050	03/19/25 13:08	
EPA 6020B	Boron	0.0078J	mg/L	0.040	03/20/25 03:34	
EPA 6020B	Calcium	25.9	mg/L	1.0	03/19/25 13:08	
EPA 6020B	Magnesium	4.4	mg/L	0.050	03/19/25 13:08	
EPA 6020B	Potassium	3.6	mg/L	0.50	03/19/25 13:08	
EPA 6020B	Sodium	9.2	mg/L	1.0	03/19/25 13:08	
92781909011	**YAT-YGWA-20S**					
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	25.9	mg/L	5.0	03/01/25 00:26	
SM 2320B-2011	Alkalinity, Total as CaCO3	25.9	mg/L	5.0	03/01/25 00:26	

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SUMMARY OF DETECTION

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92781909011	**YAT-YGWA-20S**					
SM 2540C-2015	Total Dissolved Solids	69.0	mg/L	25.0	03/04/25 16:39	
EPA 300.0 Rev 2.1 1993	Chloride	2.6	mg/L	1.0	02/28/25 07:24	
EPA 6020B	Barium	0.015	mg/L	0.0050	03/19/25 13:13	
EPA 6020B	Calcium	2.6	mg/L	1.0	03/19/25 13:13	
EPA 6020B	Magnesium	0.60	mg/L	0.050	03/19/25 13:13	
EPA 6020B	Potassium	0.58	mg/L	0.50	03/19/25 13:13	
EPA 6020B	Sodium	9.4	mg/L	1.0	03/19/25 13:13	
92781909014	**YAT-YGWA-30I**					
EPA 6020B	Lithium	0.00127J	mg/L	0.0300	03/13/25 15:10	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	15.5	mg/L	5.0	03/01/25 00:39	
SM 2320B-2011	Alkalinity, Total as CaCO3	15.5	mg/L	5.0	03/01/25 00:39	
SM 2540C-2015	Total Dissolved Solids	51.0	mg/L	25.0	03/04/25 16:40	
EPA 300.0 Rev 2.1 1993	Chloride	1.3	mg/L	1.0	02/28/25 07:39	
EPA 300.0 Rev 2.1 1993	Fluoride	0.062J	mg/L	0.10	02/28/25 07:39	
EPA 300.0 Rev 2.1 1993	Sulfate	0.74J	mg/L	1.0	02/28/25 07:39	
EPA 6020B	Barium	0.0076	mg/L	0.0050	03/19/25 13:29	
EPA 6020B	Calcium	1.4	mg/L	1.0	03/19/25 13:29	
EPA 6020B	Cobalt	0.0023J	mg/L	0.0050	03/19/25 13:29	
EPA 6020B	Magnesium	0.94	mg/L	0.050	03/19/25 13:29	
EPA 6020B	Potassium	0.71	mg/L	0.50	03/19/25 13:29	
EPA 6020B	Sodium	6.0	mg/L	1.0	03/19/25 13:29	
92781909015	**YAT-YGWA-14S**					
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	9.9	mg/L	5.0	03/01/25 00:44	
SM 2320B-2011	Alkalinity, Total as CaCO3	9.9	mg/L	5.0	03/01/25 00:44	
SM 2540C-2015	Total Dissolved Solids	64.0	mg/L	25.0	03/04/25 16:40	
EPA 300.0 Rev 2.1 1993	Chloride	4.1	mg/L	1.0	02/28/25 07:54	
EPA 300.0 Rev 2.1 1993	Fluoride	0.052J	mg/L	0.10	02/28/25 07:54	
EPA 300.0 Rev 2.1 1993	Sulfate	6.5	mg/L	1.0	02/28/25 07:54	
EPA 6020B	Barium	0.0084	mg/L	0.0050	03/19/25 13:44	
EPA 6020B	Beryllium	0.00020J	mg/L	0.00050	03/19/25 13:44	
EPA 6020B	Boron	0.018J	mg/L	0.040	03/20/25 04:38	
EPA 6020B	Calcium	1.3	mg/L	1.0	03/19/25 13:44	
EPA 6020B	Magnesium	1.4	mg/L	0.050	03/19/25 13:44	
EPA 6020B	Potassium	0.76	mg/L	0.50	03/19/25 13:44	
EPA 6020B	Selenium	0.0014J	mg/L	0.0050	03/19/25 13:44	
EPA 6020B	Sodium	8.9	mg/L	1.0	03/19/25 13:44	
92781909016	**YAT-YGWA-2I**					
EPA 6020B	Lithium	0.00111J	mg/L	0.0300	03/13/25 15:34	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	99.8	mg/L	5.0	03/01/25 00:49	
SM 2320B-2011	Alkalinity, Total as CaCO3	99.8	mg/L	5.0	03/01/25 00:49	
SM 2540C-2015	Total Dissolved Solids	156	mg/L	25.0	03/04/25 16:40	
EPA 300.0 Rev 2.1 1993	Chloride	0.77J	mg/L	1.0	02/28/25 08:38	
EPA 300.0 Rev 2.1 1993	Fluoride	0.12	mg/L	0.10	02/28/25 08:38	
EPA 300.0 Rev 2.1 1993	Sulfate	13.8	mg/L	1.0	02/28/25 08:38	
EPA 6020B	Barium	0.0037J	mg/L	0.0050	03/19/25 13:49	
EPA 6020B	Calcium	27.3	mg/L	1.0	03/19/25 13:49	

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SUMMARY OF DETECTION

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92781909016	**YAT-YGWA-2I**					
EPA 6020B	Magnesium	4.1	mg/L	0.050	03/19/25 13:49	
EPA 6020B	Molybdenum	0.0069J	mg/L	0.010	03/19/25 13:49	
EPA 6020B	Potassium	5.0	mg/L	0.50	03/19/25 13:49	
EPA 6020B	Sodium	8.9	mg/L	1.0	03/19/25 13:49	
92781909017	**YAT-YGWA-47**					
EPA 6020B	Lithium	0.00393J	mg/L	0.0300	03/13/25 15:38	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	37.8	mg/L	5.0	03/01/25 08:54	
SM 2320B-2011	Alkalinity, Total as CaCO3	37.8	mg/L	5.0	03/01/25 08:54	
SM 2540C-2015	Total Dissolved Solids	147	mg/L	25.0	03/04/25 16:40	
EPA 300.0 Rev 2.1 1993	Chloride	3.0	mg/L	1.0	02/28/25 08:53	
EPA 300.0 Rev 2.1 1993	Fluoride	0.069J	mg/L	0.10	02/28/25 08:53	
EPA 300.0 Rev 2.1 1993	Sulfate	48.3	mg/L	1.0	02/28/25 08:53	
EPA 6020B	Barium	0.033	mg/L	0.0050	03/19/25 13:54	
EPA 6020B	Boron	0.014J	mg/L	0.040	03/20/25 04:56	
EPA 6020B	Calcium	9.9	mg/L	1.0	03/19/25 13:54	
EPA 6020B	Magnesium	11.0	mg/L	0.050	03/19/25 13:54	
EPA 6020B	Potassium	3.9	mg/L	0.50	03/19/25 13:54	
EPA 6020B	Sodium	11.7	mg/L	1.0	03/19/25 13:54	
92781909019	**YAT-YGWA-1I**					
EPA 6020B	Lithium	0.00270J	mg/L	0.0300	03/13/25 15:44	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	15.0	mg/L	5.0	03/01/25 09:16	
SM 2320B-2011	Alkalinity, Total as CaCO3	15.0	mg/L	5.0	03/01/25 09:16	
SM 2540C-2015	Total Dissolved Solids	47.0	mg/L	25.0	03/04/25 16:40	
EPA 300.0 Rev 2.1 1993	Chloride	1.1	mg/L	1.0	02/28/25 09:08	
EPA 300.0 Rev 2.1 1993	Fluoride	0.060J	mg/L	0.10	02/28/25 09:08	
EPA 300.0 Rev 2.1 1993	Sulfate	3.5	mg/L	1.0	02/28/25 09:08	
EPA 6020B	Barium	0.0083	mg/L	0.0050	03/19/25 14:05	
EPA 6020B	Calcium	1.8	mg/L	1.0	03/19/25 14:05	
EPA 6020B	Cobalt	0.0014J	mg/L	0.0050	03/19/25 14:05	
EPA 6020B	Magnesium	1.4	mg/L	0.050	03/19/25 14:05	
EPA 6020B	Molybdenum	0.0032J	mg/L	0.010	03/19/25 14:05	
EPA 6020B	Potassium	2.0	mg/L	0.50	03/19/25 14:05	
EPA 6020B	Sodium	4.8	mg/L	1.0	03/19/25 14:05	
92781909020	**YAT-YGWA-1D**					
EPA 6020B	Lithium	0.00366J	mg/L	0.0300	03/13/25 15:47	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	65.2	mg/L	5.0	03/04/25 13:08	
SM 2320B-2011	Alkalinity, Total as CaCO3	65.2	mg/L	5.0	03/04/25 13:08	
SM 2540C-2015	Total Dissolved Solids	121	mg/L	25.0	03/04/25 16:40	
EPA 300.0 Rev 2.1 1993	Chloride	0.90J	mg/L	1.0	02/28/25 09:52	
EPA 300.0 Rev 2.1 1993	Fluoride	0.094J	mg/L	0.10	02/28/25 09:52	
EPA 300.0 Rev 2.1 1993	Sulfate	10.4	mg/L	1.0	02/28/25 09:52	
EPA 6020B	Arsenic	0.0016J	mg/L	0.0050	03/19/25 14:10	
EPA 6020B	Barium	0.0071	mg/L	0.0050	03/19/25 14:10	
EPA 6020B	Calcium	16.4	mg/L	1.0	03/19/25 14:10	
EPA 6020B	Magnesium	1.9	mg/L	0.050	03/19/25 14:10	
EPA 6020B	Molybdenum	0.010	mg/L	0.010	03/19/25 14:10	

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SUMMARY OF DETECTION

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92781909020	**YAT-YGWA-1D**					
EPA 6020B	Potassium	4.7	mg/L	0.50	03/19/25 14:10	
EPA 6020B	Sodium	11.8	mg/L	1.0	03/19/25 14:10	
92781909021	**YAT-YGWA-3I**					
EPA 6020B	Lithium	0.0168J	mg/L	0.0300	03/13/25 15:00	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	89.6	mg/L	5.0	03/04/25 13:16	
SM 2320B-2011	Alkalinity, Total as CaCO3	89.6	mg/L	5.0	03/04/25 13:16	
SM 2540C-2015	Total Dissolved Solids	136	mg/L	25.0	03/04/25 16:40	
EPA 300.0 Rev 2.1 1993	Chloride	0.90J	mg/L	1.0	02/28/25 10:07	
EPA 300.0 Rev 2.1 1993	Fluoride	0.14	mg/L	0.10	02/28/25 10:07	
EPA 300.0 Rev 2.1 1993	Sulfate	10.9	mg/L	1.0	02/28/25 10:07	
EPA 6020B	Barium	0.0036J	mg/L	0.0050	03/19/25 16:18	
EPA 6020B	Cadmium	0.00046J	mg/L	0.00050	03/19/25 16:18	
EPA 6020B	Calcium	21.2	mg/L	1.0	03/19/25 16:18	
EPA 6020B	Magnesium	5.3	mg/L	0.050	03/19/25 16:18	
EPA 6020B	Molybdenum	0.0086J	mg/L	0.010	03/19/25 16:18	
EPA 6020B	Potassium	5.0	mg/L	0.50	03/19/25 16:18	
EPA 6020B	Sodium	8.8	mg/L	1.0	03/19/25 16:18	
EPA 6020B	Thallium	0.00053J	mg/L	0.0010	03/19/25 16:18	
92781909022	**YAT-YGWA-3D**					
EPA 6020B	Lithium	0.0219J	mg/L	0.0300	03/13/25 15:13	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	103	mg/L	5.0	03/04/25 13:24	
SM 2320B-2011	Alkalinity, Total as CaCO3	103	mg/L	5.0	03/04/25 13:24	
SM 2540C-2015	Total Dissolved Solids	147	mg/L	25.0	03/04/25 16:40	
EPA 300.0 Rev 2.1 1993	Chloride	0.94J	mg/L	1.0	02/28/25 10:22	
EPA 300.0 Rev 2.1 1993	Fluoride	0.45	mg/L	0.10	02/28/25 10:22	
EPA 300.0 Rev 2.1 1993	Sulfate	6.7	mg/L	1.0	02/28/25 10:22	
EPA 6020B	Antimony	0.00072J	mg/L	0.0030	03/19/25 16:23	
EPA 6020B	Barium	0.0059	mg/L	0.0050	03/19/25 16:23	
EPA 6020B	Cadmium	0.00051	mg/L	0.00050	03/19/25 16:23	
EPA 6020B	Calcium	27.9	mg/L	1.0	03/19/25 16:23	
EPA 6020B	Magnesium	3.7	mg/L	0.050	03/19/25 16:23	
EPA 6020B	Molybdenum	0.017	mg/L	0.010	03/19/25 16:23	
EPA 6020B	Potassium	3.6	mg/L	0.50	03/19/25 16:23	
EPA 6020B	Sodium	9.7	mg/L	1.0	03/19/25 16:23	
EPA 6020B	Thallium	0.00043J	mg/L	0.0010	03/19/25 16:23	
92781909024	**YAT-UGRD-FD-1**					
EPA 6020B	Lithium	0.00287J	mg/L	0.0300	03/13/25 15:20	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	15.2	mg/L	5.0	03/04/25 13:36	
SM 2320B-2011	Alkalinity, Total as CaCO3	15.2	mg/L	5.0	03/04/25 13:36	
SM 2540C-2015	Total Dissolved Solids	51.0	mg/L	25.0	03/04/25 16:45	
EPA 300.0 Rev 2.1 1993	Chloride	1.1	mg/L	1.0	02/28/25 10:37	
EPA 300.0 Rev 2.1 1993	Fluoride	0.061J	mg/L	0.10	02/28/25 10:37	
EPA 300.0 Rev 2.1 1993	Sulfate	3.6	mg/L	1.0	02/28/25 10:37	
EPA 6020B	Barium	0.0080	mg/L	0.0050	03/19/25 16:34	
EPA 6020B	Calcium	1.7	mg/L	1.0	03/19/25 16:34	
EPA 6020B	Cobalt	0.0013J	mg/L	0.0050	03/19/25 16:34	

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SUMMARY OF DETECTION

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92781909024	**YAT-UGRD-FD-1**					
EPA 6020B	Magnesium	1.4	mg/L	0.050	03/19/25 16:34	
EPA 6020B	Molybdenum	0.0032J	mg/L	0.010	03/19/25 16:34	
EPA 6020B	Potassium	2.0	mg/L	0.50	03/19/25 16:34	
EPA 6020B	Sodium	4.7	mg/L	1.0	03/19/25 16:34	

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ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Sample: YAT-YGWA-17S **Lab ID: 92781909001** Collected: 02/25/25 13:05 Received: 02/26/25 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	ND	mg/L	0.0300	0.000600	1	03/13/25 11:03	03/13/25 14:05	7439-93-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/28/25 18:12	03/02/25 14:36	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**14.3**	mg/L	5.0	5.0	1		02/28/25 23:32		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/28/25 23:32		
Alkalinity, Total as CaCO3	**14.3**	mg/L	5.0	5.0	1		02/28/25 23:32		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**93.0**	mg/L	25.0	25.0	1		03/03/25 23:06		
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		02/28/25 04:11	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/28/25 04:11	16984-48-8	
Sulfate	**3.6**	mg/L	1.0	0.50	1		02/28/25 04:11	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 14:38	03/19/25 11:49	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 11:49	7440-38-2	
Barium	**0.018**	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 11:49	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/10/25 14:38	03/19/25 11:49	7440-41-7	
Boron	**0.0093J**	mg/L	0.040	0.0062	1	03/10/25 14:38	03/20/25 01:19	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 14:38	03/19/25 11:49	7440-43-9	
Calcium	**3.0**	mg/L	1.0	0.10	1	03/10/25 14:38	03/19/25 11:49	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 11:49	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 11:49	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 14:38	03/19/25 11:49	7439-92-1	
Magnesium	**1.0**	mg/L	0.050	0.010	1	03/10/25 14:38	03/19/25 11:49	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/10/25 14:38	03/19/25 11:49	7439-98-7	
Potassium	**0.41J**	mg/L	0.50	0.10	1	03/10/25 14:38	03/19/25 11:49	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 11:49	7782-49-2	
Sodium	**15.0**	mg/L	1.0	0.15	1	03/10/25 14:38	03/19/25 11:49	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 14:38	03/19/25 11:49	7440-28-0	

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ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Sample: YAT-YGWA-18S **Lab ID: 92781909002** Collected: 02/25/25 10:12 Received: 02/26/25 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00129J**	mg/L	0.0300	0.000600	1	03/13/25 11:03	03/13/25 14:18	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/28/25 18:12	03/02/25 14:42	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**9.3**	mg/L	5.0	5.0	1		02/28/25 23:37		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/28/25 23:37		
Alkalinity, Total as CaCO3	**9.3**	mg/L	5.0	5.0	1		02/28/25 23:37		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**69.0**	mg/L	25.0	25.0	1		03/03/25 23:06		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**6.5**	mg/L	1.0	0.60	1		02/28/25 04:26	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/28/25 04:26	16984-48-8	
Sulfate	**0.59J**	mg/L	1.0	0.50	1		02/28/25 04:26	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 14:38	03/19/25 11:54	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 11:54	7440-38-2	
Barium	**0.014**	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 11:54	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/10/25 14:38	03/19/25 11:54	7440-41-7	
Boron	ND	mg/L	0.040	0.0062	1	03/10/25 14:38	03/20/25 01:28	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 14:38	03/19/25 11:54	7440-43-9	
Calcium	**0.88J**	mg/L	1.0	0.10	1	03/10/25 14:38	03/19/25 11:54	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 11:54	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 11:54	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 14:38	03/19/25 11:54	7439-92-1	
Magnesium	**0.94**	mg/L	0.050	0.010	1	03/10/25 14:38	03/19/25 11:54	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/10/25 14:38	03/19/25 11:54	7439-98-7	
Potassium	**0.52**	mg/L	0.50	0.10	1	03/10/25 14:38	03/19/25 11:54	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 11:54	7782-49-2	
Sodium	**8.8**	mg/L	1.0	0.15	1	03/10/25 14:38	03/19/25 11:54	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 14:38	03/19/25 11:54	7440-28-0	

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ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Sample: YAT-YGWA-18I **Lab ID: 92781909003** Collected: 02/25/25 12:10 Received: 02/26/25 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00373J**	mg/L	0.0300	0.000600	1	03/13/25 11:03	03/13/25 14:21	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/28/25 18:12	03/02/25 14:44	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**35.3**	mg/L	5.0	5.0	1		02/28/25 23:42		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/28/25 23:42		
Alkalinity, Total as CaCO3	**35.3**	mg/L	5.0	5.0	1		02/28/25 23:42		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**110**	mg/L	25.0	25.0	1		03/03/25 23:06		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**7.0**	mg/L	1.0	0.60	1		02/28/25 04:41	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/28/25 04:41	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/28/25 04:41	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 14:38	03/19/25 12:00	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:00	7440-38-2	
Barium	**0.021**	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:00	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/10/25 14:38	03/19/25 12:00	7440-41-7	
Boron	ND	mg/L	0.040	0.0062	1	03/10/25 14:38	03/20/25 01:37	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 14:38	03/19/25 12:00	7440-43-9	
Calcium	**5.3**	mg/L	1.0	0.10	1	03/10/25 14:38	03/19/25 12:00	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:00	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:00	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 14:38	03/19/25 12:00	7439-92-1	
Magnesium	**3.0**	mg/L	0.050	0.010	1	03/10/25 14:38	03/19/25 12:00	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/10/25 14:38	03/19/25 12:00	7439-98-7	
Potassium	**1.0**	mg/L	0.50	0.10	1	03/10/25 14:38	03/19/25 12:00	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:00	7782-49-2	
Sodium	**12.2**	mg/L	1.0	0.15	1	03/10/25 14:38	03/19/25 12:00	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 14:38	03/19/25 12:00	7440-28-0	

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ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Sample: YAT-YGWA-39 **Lab ID: 92781909004** Collected: 02/25/25 15:22 Received: 02/26/25 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00608J**	mg/L	0.0300	0.000600	1	03/13/25 11:03	03/13/25 14:24	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/28/25 18:12	03/02/25 14:46	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**185**	mg/L	5.0	5.0	1		03/04/25 20:00		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/04/25 20:00		
Alkalinity, Total as CaCO3	**185**	mg/L	5.0	5.0	1		03/04/25 20:00		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**228**	mg/L	25.0	25.0	1		03/04/25 16:37		
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		02/28/25 04:56	16887-00-6	
Fluoride	**0.078J**	mg/L	0.10	0.050	1		02/28/25 04:56	16984-48-8	
Sulfate	**6.5**	mg/L	1.0	0.50	1		02/28/25 04:56	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 14:38	03/19/25 12:05	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:05	7440-38-2	
Barium	**0.031**	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:05	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/10/25 14:38	03/19/25 12:05	7440-41-7	
Boron	**0.13**	mg/L	0.040	0.0062	1	03/10/25 14:38	03/20/25 01:46	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 14:38	03/19/25 12:05	7440-43-9	
Calcium	**17.3**	mg/L	1.0	0.10	1	03/10/25 14:38	03/19/25 12:05	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:05	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:05	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 14:38	03/19/25 12:05	7439-92-1	
Magnesium	**22.3**	mg/L	0.050	0.010	1	03/10/25 14:38	03/19/25 12:05	7439-95-4	
Molybdenum	**0.0056J**	mg/L	0.010	0.0025	1	03/10/25 14:38	03/19/25 12:05	7439-98-7	
Potassium	**6.0**	mg/L	0.50	0.10	1	03/10/25 14:38	03/19/25 12:05	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:05	7782-49-2	
Sodium	**25.2**	mg/L	1.0	0.15	1	03/10/25 14:38	03/19/25 12:05	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 14:38	03/19/25 12:05	7440-28-0	

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ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Sample: YAT-YGWA-40 **Lab ID: 92781909005** Collected: 02/25/25 14:21 Received: 02/26/25 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.000836J**	mg/L	0.0300	0.000600	1	03/13/25 11:03	03/13/25 14:27	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	**0.00034**	mg/L	0.00020	0.00012	1	02/28/25 18:12	03/02/25 14:48	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**22.5**	mg/L	5.0	5.0	1		02/28/25 23:47		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/28/25 23:47		
Alkalinity, Total as CaCO3	**22.5**	mg/L	5.0	5.0	1		02/28/25 23:47		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**86.0**	mg/L	25.0	25.0	1		03/04/25 16:37		
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		02/28/25 05:10	16887-00-6	
Fluoride	**0.053J**	mg/L	0.10	0.050	1		02/28/25 05:10	16984-48-8	
Sulfate	**15.4**	mg/L	1.0	0.50	1		02/28/25 05:10	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 14:38	03/19/25 12:10	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:10	7440-38-2	
Barium	**0.031**	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:10	7440-39-3	
Beryllium	**0.00018J**	mg/L	0.00050	0.00015	1	03/10/25 14:38	03/19/25 12:10	7440-41-7	
Boron	**0.061**	mg/L	0.040	0.0062	1	03/10/25 14:38	03/20/25 01:55	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 14:38	03/19/25 12:10	7440-43-9	
Calcium	**4.8**	mg/L	1.0	0.10	1	03/10/25 14:38	03/19/25 12:10	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:10	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:10	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 14:38	03/19/25 12:10	7439-92-1	
Magnesium	**2.8**	mg/L	0.050	0.010	1	03/10/25 14:38	03/19/25 12:10	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/10/25 14:38	03/19/25 12:10	7439-98-7	
Potassium	**2.0**	mg/L	0.50	0.10	1	03/10/25 14:38	03/19/25 12:10	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:10	7782-49-2	
Sodium	**9.7**	mg/L	1.0	0.15	1	03/10/25 14:38	03/19/25 12:10	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 14:38	03/19/25 12:10	7440-28-0	

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ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Sample: YAT-UGRD-FD-2 **Lab ID: 92781909006** Collected: 02/25/25 00:00 Received: 02/26/25 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00123J**	mg/L	0.0300	0.000600	1	03/13/25 11:03	03/13/25 14:45	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/28/25 18:12	03/02/25 14:50	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**9.5**	mg/L	5.0	5.0	1		03/01/25 00:01		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/01/25 00:01		
Alkalinity, Total as CaCO3	**9.5**	mg/L	5.0	5.0	1		03/01/25 00:01		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**60.0**	mg/L	25.0	25.0	1		03/04/25 16:38		
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		02/28/25 05:55	16887-00-6	
Fluoride	**0.055J**	mg/L	0.10	0.050	1		02/28/25 05:55	16984-48-8	
Sulfate	**0.61J**	mg/L	1.0	0.50	1		02/28/25 05:55	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 14:38	03/19/25 12:15	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:15	7440-38-2	
Barium	**0.013**	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:15	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/10/25 14:38	03/19/25 12:15	7440-41-7	
Boron	ND	mg/L	0.040	0.0062	1	03/10/25 14:38	03/20/25 02:04	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 14:38	03/19/25 12:15	7440-43-9	
Calcium	**0.89J**	mg/L	1.0	0.10	1	03/10/25 14:38	03/19/25 12:15	7440-70-2	
Chromium	**0.0013J**	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:15	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:15	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 14:38	03/19/25 12:15	7439-92-1	
Magnesium	**0.96**	mg/L	0.050	0.010	1	03/10/25 14:38	03/19/25 12:15	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/10/25 14:38	03/19/25 12:15	7439-98-7	
Potassium	**0.53**	mg/L	0.50	0.10	1	03/10/25 14:38	03/19/25 12:15	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:15	7782-49-2	
Sodium	**8.9**	mg/L	1.0	0.15	1	03/10/25 14:38	03/19/25 12:15	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 14:38	03/19/25 12:15	7440-28-0	

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(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Sample: YAT-YGWA-21I **Lab ID: 92781909007** Collected: 02/25/25 14:15 Received: 02/26/25 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00670J**	mg/L	0.0300	0.000600	1	03/13/25 11:03	03/13/25 14:48	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/28/25 18:12	03/02/25 14:56	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**68.2**	mg/L	5.0	5.0	1		03/01/25 00:06		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/01/25 00:06		
Alkalinity, Total as CaCO3	**68.2**	mg/L	5.0	5.0	1		03/01/25 00:06		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**110**	mg/L	25.0	25.0	1		03/04/25 16:38		
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		02/28/25 06:10	16887-00-6	
Fluoride	**0.088J**	mg/L	0.10	0.050	1		02/28/25 06:10	16984-48-8	
Sulfate	**3.3**	mg/L	1.0	0.50	1		02/28/25 06:10	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	**0.00054J**	mg/L	0.0030	0.00050	1	03/10/25 14:38	03/19/25 12:20	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:20	7440-38-2	
Barium	**0.0077**	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:20	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/10/25 14:38	03/19/25 12:20	7440-41-7	
Boron	**0.0066J**	mg/L	0.040	0.0062	1	03/10/25 14:38	03/20/25 02:13	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 14:38	03/19/25 12:20	7440-43-9	
Calcium	**6.0**	mg/L	1.0	0.10	1	03/10/25 14:38	03/19/25 12:20	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:20	7440-47-3	
Cobalt	**0.041**	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:20	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 14:38	03/19/25 12:20	7439-92-1	
Magnesium	**3.2**	mg/L	0.050	0.010	1	03/10/25 14:38	03/19/25 12:20	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/10/25 14:38	03/19/25 12:20	7439-98-7	
Potassium	**3.0**	mg/L	0.50	0.10	1	03/10/25 14:38	03/19/25 12:20	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:20	7782-49-2	
Sodium	**19.9**	mg/L	1.0	0.15	1	03/10/25 14:38	03/19/25 12:20	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 14:38	03/19/25 12:20	7440-28-0	

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ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Sample: YAT-YGWA-4I **Lab ID: 92781909008** Collected: 02/25/25 09:48 Received: 02/26/25 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.0125J**	mg/L	0.0300	0.000600	1	03/13/25 11:03	03/13/25 14:51	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/28/25 18:12	03/02/25 14:58	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**48.3**	mg/L	5.0	5.0	1		03/04/25 20:15		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/04/25 20:15		
Alkalinity, Total as CaCO3	**48.3**	mg/L	5.0	5.0	1		03/04/25 20:15		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**105**	mg/L	25.0	25.0	1		03/04/25 16:38		
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		02/28/25 06:54	16887-00-6	
Fluoride	**0.061J**	mg/L	0.10	0.050	1		02/28/25 06:54	16984-48-8	
Sulfate	**7.4**	mg/L	1.0	0.50	1		02/28/25 06:54	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 14:38	03/19/25 12:25	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:25	7440-38-2	
Barium	**0.013**	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:25	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/10/25 14:38	03/19/25 12:25	7440-41-7	
Boron	ND	mg/L	0.040	0.0062	1	03/10/25 14:38	03/20/25 02:22	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 14:38	03/19/25 12:25	7440-43-9	
Calcium	**8.1**	mg/L	1.0	0.10	1	03/10/25 14:38	03/19/25 12:25	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:25	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:25	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 14:38	03/19/25 12:25	7439-92-1	
Magnesium	**4.7**	mg/L	0.050	0.010	1	03/10/25 14:38	03/19/25 12:25	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/10/25 14:38	03/19/25 12:25	7439-98-7	
Potassium	**3.6**	mg/L	0.50	0.10	1	03/10/25 14:38	03/19/25 12:25	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:25	7782-49-2	
Sodium	**10.1**	mg/L	1.0	0.15	1	03/10/25 14:38	03/19/25 12:25	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 14:38	03/19/25 12:25	7440-28-0	

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ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Sample: YAT-YGWA-5I **Lab ID: 92781909009** Collected: 02/25/25 10:57 Received: 02/26/25 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00364J**	mg/L	0.0300	0.000600	1	03/13/25 11:03	03/13/25 14:54	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/28/25 18:12	03/02/25 15:00	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**25.4**	mg/L	5.0	5.0	1		03/01/25 00:13		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/01/25 00:13		
Alkalinity, Total as CaCO3	**25.4**	mg/L	5.0	5.0	1		03/01/25 00:13		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**83.0**	mg/L	25.0	25.0	1		03/04/25 16:38		
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		02/27/25 23:44	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/27/25 23:44	16984-48-8	
Sulfate	**2.2**	mg/L	1.0	0.50	1		02/27/25 23:44	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 14:38	03/19/25 12:41	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:41	7440-38-2	
Barium	**0.020**	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:41	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/10/25 14:38	03/19/25 12:41	7440-41-7	
Boron	ND	mg/L	0.040	0.0062	1	03/10/25 14:38	03/20/25 02:49	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 14:38	03/19/25 12:41	7440-43-9	
Calcium	**2.8**	mg/L	1.0	0.10	1	03/10/25 14:38	03/19/25 12:41	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:41	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:41	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 14:38	03/19/25 12:41	7439-92-1	
Magnesium	**2.7**	mg/L	0.050	0.010	1	03/10/25 14:38	03/19/25 12:41	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/10/25 14:38	03/19/25 12:41	7439-98-7	
Potassium	**1.6**	mg/L	0.50	0.10	1	03/10/25 14:38	03/19/25 12:41	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 12:41	7782-49-2	
Sodium	**11.0**	mg/L	1.0	0.15	1	03/10/25 14:38	03/19/25 12:41	7440-23-5	M1
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 14:38	03/19/25 12:41	7440-28-0	

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ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Sample: YAT-YGWA-5D **Lab ID: 92781909010** Collected: 02/25/25 11:56 Received: 02/26/25 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00582J**	mg/L	0.0300	0.000600	1	03/13/25 11:03	03/13/25 14:57	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/28/25 18:12	03/02/25 15:02	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**102**	mg/L	5.0	5.0	1		03/01/25 00:18		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/01/25 00:18		
Alkalinity, Total as CaCO3	**102**	mg/L	5.0	5.0	1		03/01/25 00:18		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**146**	mg/L	25.0	25.0	1		03/04/25 16:38		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.8**	mg/L	1.0	0.60	1		02/28/25 07:09	16887-00-6	
Fluoride	**0.082J**	mg/L	0.10	0.050	1		02/28/25 07:09	16984-48-8	
Sulfate	**4.6**	mg/L	1.0	0.50	1		02/28/25 07:09	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 14:38	03/19/25 13:08	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:08	7440-38-2	
Barium	**0.0081**	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:08	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/10/25 14:38	03/19/25 13:08	7440-41-7	
Boron	**0.0078J**	mg/L	0.040	0.0062	1	03/10/25 14:38	03/20/25 03:34	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 14:38	03/19/25 13:08	7440-43-9	
Calcium	**25.9**	mg/L	1.0	0.10	1	03/10/25 14:38	03/19/25 13:08	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:08	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:08	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 14:38	03/19/25 13:08	7439-92-1	
Magnesium	**4.4**	mg/L	0.050	0.010	1	03/10/25 14:38	03/19/25 13:08	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/10/25 14:38	03/19/25 13:08	7439-98-7	
Potassium	**3.6**	mg/L	0.50	0.10	1	03/10/25 14:38	03/19/25 13:08	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:08	7782-49-2	
Sodium	**9.2**	mg/L	1.0	0.15	1	03/10/25 14:38	03/19/25 13:08	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 14:38	03/19/25 13:08	7440-28-0	

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ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Sample: YAT-YGWA-20S **Lab ID: 92781909011** Collected: 02/25/25 15:48 Received: 02/26/25 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	ND	mg/L	0.0300	0.000600	1	03/13/25 11:03	03/13/25 15:00	7439-93-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/28/25 18:12	03/02/25 15:04	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**25.9**	mg/L	5.0	5.0	1		03/01/25 00:26		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/01/25 00:26		
Alkalinity, Total as CaCO3	**25.9**	mg/L	5.0	5.0	1		03/01/25 00:26		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**69.0**	mg/L	25.0	25.0	1		03/04/25 16:39		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.6**	mg/L	1.0	0.60	1		02/28/25 07:24	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/28/25 07:24	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/28/25 07:24	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 14:38	03/19/25 13:13	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:13	7440-38-2	
Barium	**0.015**	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:13	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/10/25 14:38	03/19/25 13:13	7440-41-7	
Boron	ND	mg/L	0.040	0.0062	1	03/10/25 14:38	03/20/25 03:43	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 14:38	03/19/25 13:13	7440-43-9	
Calcium	**2.6**	mg/L	1.0	0.10	1	03/10/25 14:38	03/19/25 13:13	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:13	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:13	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 14:38	03/19/25 13:13	7439-92-1	
Magnesium	**0.60**	mg/L	0.050	0.010	1	03/10/25 14:38	03/19/25 13:13	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/10/25 14:38	03/19/25 13:13	7439-98-7	
Potassium	**0.58**	mg/L	0.50	0.10	1	03/10/25 14:38	03/19/25 13:13	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:13	7782-49-2	
Sodium	**9.4**	mg/L	1.0	0.15	1	03/10/25 14:38	03/19/25 13:13	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 14:38	03/19/25 13:13	7440-28-0	

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ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Sample: YAT-UGRD-EB-2 **Lab ID: 92781909012** Collected: 02/25/25 16:10 Received: 02/26/25 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	ND	mg/L	0.0300	0.000600	1	03/13/25 11:03	03/13/25 15:04	7439-93-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/28/25 18:12	03/02/25 15:06	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/01/25 00:32		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/01/25 00:32		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		03/01/25 00:32		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		03/04/25 16:39		
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		02/27/25 22:59	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/27/25 22:59	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/27/25 22:59	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 14:38	03/19/25 13:19	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:19	7440-38-2	
Barium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:19	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/10/25 14:38	03/19/25 13:19	7440-41-7	
Boron	ND	mg/L	0.040	0.0062	1	03/10/25 14:38	03/20/25 03:52	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 14:38	03/19/25 13:19	7440-43-9	
Calcium	ND	mg/L	1.0	0.10	1	03/10/25 14:38	03/19/25 13:19	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:19	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:19	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 14:38	03/19/25 13:19	7439-92-1	
Magnesium	ND	mg/L	0.050	0.010	1	03/10/25 14:38	03/19/25 13:19	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/10/25 14:38	03/19/25 13:19	7439-98-7	
Potassium	ND	mg/L	0.50	0.10	1	03/10/25 14:38	03/19/25 13:19	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:19	7782-49-2	
Sodium	ND	mg/L	1.0	0.15	1	03/10/25 14:38	03/19/25 13:19	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 14:38	03/19/25 13:19	7440-28-0	

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ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Sample: YAT-UGRD-FB-2 **Lab ID: 92781909013** Collected: 02/25/25 12:06 Received: 02/26/25 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	ND	mg/L	0.0300	0.000600	1	03/13/25 11:03	03/13/25 15:07	7439-93-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/28/25 18:12	03/02/25 15:08	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/01/25 00:35		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/01/25 00:35		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		03/01/25 00:35		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		03/04/25 16:40		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		02/27/25 23:14	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/27/25 23:14	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/27/25 23:14	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 14:38	03/19/25 13:24	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:24	7440-38-2	
Barium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:24	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/10/25 14:38	03/19/25 13:24	7440-41-7	
Boron	ND	mg/L	0.040	0.0062	1	03/10/25 14:38	03/20/25 04:02	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 14:38	03/19/25 13:24	7440-43-9	
Calcium	ND	mg/L	1.0	0.10	1	03/10/25 14:38	03/19/25 13:24	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:24	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:24	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 14:38	03/19/25 13:24	7439-92-1	
Magnesium	ND	mg/L	0.050	0.010	1	03/10/25 14:38	03/19/25 13:24	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/10/25 14:38	03/19/25 13:24	7439-98-7	
Potassium	ND	mg/L	0.50	0.10	1	03/10/25 14:38	03/19/25 13:24	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:24	7782-49-2	
Sodium	ND	mg/L	1.0	0.15	1	03/10/25 14:38	03/19/25 13:24	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 14:38	03/19/25 13:24	7440-28-0	

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ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Sample: YAT-YGWA-30I **Lab ID: 92781909014** Collected: 02/25/25 14:55 Received: 02/26/25 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00127J**	mg/L	0.0300	0.000600	1	03/13/25 11:03	03/13/25 15:10	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/28/25 18:12	03/02/25 15:10	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**15.5**	mg/L	5.0	5.0	1		03/01/25 00:39		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/01/25 00:39		
Alkalinity, Total as CaCO3	**15.5**	mg/L	5.0	5.0	1		03/01/25 00:39		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**51.0**	mg/L	25.0	25.0	1		03/04/25 16:40		
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		02/28/25 07:39	16887-00-6	
Fluoride	**0.062J**	mg/L	0.10	0.050	1		02/28/25 07:39	16984-48-8	
Sulfate	**0.74J**	mg/L	1.0	0.50	1		02/28/25 07:39	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 14:38	03/19/25 13:29	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:29	7440-38-2	
Barium	**0.0076**	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:29	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/10/25 14:38	03/19/25 13:29	7440-41-7	
Boron	ND	mg/L	0.040	0.0062	1	03/10/25 14:38	03/20/25 04:11	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 14:38	03/19/25 13:29	7440-43-9	
Calcium	**1.4**	mg/L	1.0	0.10	1	03/10/25 14:38	03/19/25 13:29	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:29	7440-47-3	
Cobalt	**0.0023J**	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:29	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 14:38	03/19/25 13:29	7439-92-1	
Magnesium	**0.94**	mg/L	0.050	0.010	1	03/10/25 14:38	03/19/25 13:29	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/10/25 14:38	03/19/25 13:29	7439-98-7	
Potassium	**0.71**	mg/L	0.50	0.10	1	03/10/25 14:38	03/19/25 13:29	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:29	7782-49-2	
Sodium	**6.0**	mg/L	1.0	0.15	1	03/10/25 14:38	03/19/25 13:29	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 14:38	03/19/25 13:29	7440-28-0	

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ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Sample: YAT-YGWA-14S **Lab ID: 92781909015** Collected: 02/25/25 13:00 Received: 02/26/25 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	ND	mg/L	0.0300	0.000600	1	03/13/25 11:03	03/13/25 15:31	7439-93-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/28/25 18:12	03/02/25 15:13	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**9.9**	mg/L	5.0	5.0	1		03/01/25 00:44		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/01/25 00:44		
Alkalinity, Total as CaCO3	**9.9**	mg/L	5.0	5.0	1		03/01/25 00:44		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**64.0**	mg/L	25.0	25.0	1		03/04/25 16:40		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.1**	mg/L	1.0	0.60	1		02/28/25 07:54	16887-00-6	
Fluoride	**0.052J**	mg/L	0.10	0.050	1		02/28/25 07:54	16984-48-8	
Sulfate	**6.5**	mg/L	1.0	0.50	1		02/28/25 07:54	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 14:38	03/19/25 13:44	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:44	7440-38-2	
Barium	**0.0084**	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:44	7440-39-3	
Beryllium	**0.00020J**	mg/L	0.00050	0.00015	1	03/10/25 14:38	03/19/25 13:44	7440-41-7	
Boron	**0.018J**	mg/L	0.040	0.0062	1	03/10/25 14:38	03/20/25 04:38	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 14:38	03/19/25 13:44	7440-43-9	
Calcium	**1.3**	mg/L	1.0	0.10	1	03/10/25 14:38	03/19/25 13:44	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:44	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:44	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 14:38	03/19/25 13:44	7439-92-1	
Magnesium	**1.4**	mg/L	0.050	0.010	1	03/10/25 14:38	03/19/25 13:44	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/10/25 14:38	03/19/25 13:44	7439-98-7	
Potassium	**0.76**	mg/L	0.50	0.10	1	03/10/25 14:38	03/19/25 13:44	7440-09-7	
Selenium	**0.0014J**	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:44	7782-49-2	
Sodium	**8.9**	mg/L	1.0	0.15	1	03/10/25 14:38	03/19/25 13:44	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 14:38	03/19/25 13:44	7440-28-0	

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ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Sample: YAT-YGWA-2I **Lab ID: 92781909016** Collected: 02/25/25 11:25 Received: 02/26/25 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00111J**	mg/L	0.0300	0.000600	1	03/13/25 11:03	03/13/25 15:34	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/28/25 18:12	03/02/25 15:15	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**99.8**	mg/L	5.0	5.0	1		03/01/25 00:49		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/01/25 00:49		
Alkalinity, Total as CaCO3	**99.8**	mg/L	5.0	5.0	1		03/01/25 00:49		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**156**	mg/L	25.0	25.0	1		03/04/25 16:40		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**0.77J**	mg/L	1.0	0.60	1		02/28/25 08:38	16887-00-6	
Fluoride	**0.12**	mg/L	0.10	0.050	1		02/28/25 08:38	16984-48-8	
Sulfate	**13.8**	mg/L	1.0	0.50	1		02/28/25 08:38	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 14:38	03/19/25 13:49	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:49	7440-38-2	
Barium	**0.0037J**	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:49	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/10/25 14:38	03/19/25 13:49	7440-41-7	
Boron	ND	mg/L	0.040	0.0062	1	03/10/25 14:38	03/20/25 04:47	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 14:38	03/19/25 13:49	7440-43-9	
Calcium	**27.3**	mg/L	1.0	0.10	1	03/10/25 14:38	03/19/25 13:49	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:49	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:49	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 14:38	03/19/25 13:49	7439-92-1	
Magnesium	**4.1**	mg/L	0.050	0.010	1	03/10/25 14:38	03/19/25 13:49	7439-95-4	
Molybdenum	**0.0069J**	mg/L	0.010	0.0025	1	03/10/25 14:38	03/19/25 13:49	7439-98-7	
Potassium	**5.0**	mg/L	0.50	0.10	1	03/10/25 14:38	03/19/25 13:49	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:49	7782-49-2	
Sodium	**8.9**	mg/L	1.0	0.15	1	03/10/25 14:38	03/19/25 13:49	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 14:38	03/19/25 13:49	7440-28-0	

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ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Sample: YAT-YGWA-47 **Lab ID: 92781909017** Collected: 02/25/25 16:55 Received: 02/26/25 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00393J**	mg/L	0.0300	0.000600	1	03/13/25 11:03	03/13/25 15:38	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/28/25 18:12	03/02/25 15:21	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**37.8**	mg/L	5.0	5.0	1		03/01/25 08:54		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/01/25 08:54		
Alkalinity, Total as CaCO3	**37.8**	mg/L	5.0	5.0	1		03/01/25 08:54		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**147**	mg/L	25.0	25.0	1		03/04/25 16:40		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.0**	mg/L	1.0	0.60	1		02/28/25 08:53	16887-00-6	
Fluoride	**0.069J**	mg/L	0.10	0.050	1		02/28/25 08:53	16984-48-8	
Sulfate	**48.3**	mg/L	1.0	0.50	1		02/28/25 08:53	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 14:38	03/19/25 13:54	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:54	7440-38-2	
Barium	**0.033**	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:54	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/10/25 14:38	03/19/25 13:54	7440-41-7	
Boron	**0.014J**	mg/L	0.040	0.0062	1	03/10/25 14:38	03/20/25 04:56	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 14:38	03/19/25 13:54	7440-43-9	
Calcium	**9.9**	mg/L	1.0	0.10	1	03/10/25 14:38	03/19/25 13:54	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:54	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:54	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 14:38	03/19/25 13:54	7439-92-1	
Magnesium	**11.0**	mg/L	0.050	0.010	1	03/10/25 14:38	03/19/25 13:54	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/10/25 14:38	03/19/25 13:54	7439-98-7	
Potassium	**3.9**	mg/L	0.50	0.10	1	03/10/25 14:38	03/19/25 13:54	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 13:54	7782-49-2	
Sodium	**11.7**	mg/L	1.0	0.15	1	03/10/25 14:38	03/19/25 13:54	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 14:38	03/19/25 13:54	7440-28-0	

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ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Sample: YAT-UGRD-FB-1 **Lab ID: 92781909018** Collected: 02/25/25 15:35 Received: 02/26/25 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	ND	mg/L	0.0300	0.000600	1	03/13/25 11:03	03/13/25 15:41	7439-93-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/28/25 18:12	03/02/25 15:23	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/01/25 09:02		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/01/25 09:02		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		03/01/25 09:02		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		03/04/25 16:40		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		02/28/25 00:58	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/28/25 00:58	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/28/25 00:58	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 14:38	03/19/25 14:00	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 14:00	7440-38-2	
Barium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 14:00	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/10/25 14:38	03/19/25 14:00	7440-41-7	
Boron	ND	mg/L	0.040	0.0062	1	03/10/25 14:38	03/20/25 05:05	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 14:38	03/19/25 14:00	7440-43-9	
Calcium	ND	mg/L	1.0	0.10	1	03/10/25 14:38	03/19/25 14:00	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 14:00	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 14:00	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 14:38	03/19/25 14:00	7439-92-1	
Magnesium	ND	mg/L	0.050	0.010	1	03/10/25 14:38	03/19/25 14:00	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/10/25 14:38	03/19/25 14:00	7439-98-7	
Potassium	ND	mg/L	0.50	0.10	1	03/10/25 14:38	03/19/25 14:00	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 14:00	7782-49-2	
Sodium	ND	mg/L	1.0	0.15	1	03/10/25 14:38	03/19/25 14:00	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 14:38	03/19/25 14:00	7440-28-0	

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ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Sample: YAT-YGWA-1I **Lab ID: 92781909019** Collected: 02/25/25 16:40 Received: 02/26/25 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00270J**	mg/L	0.0300	0.000600	1	03/13/25 11:03	03/13/25 15:44	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/28/25 18:12	03/02/25 15:33	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**15.0**	mg/L	5.0	5.0	1		03/01/25 09:16		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/01/25 09:16		
Alkalinity, Total as CaCO3	**15.0**	mg/L	5.0	5.0	1		03/01/25 09:16		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**47.0**	mg/L	25.0	25.0	1		03/04/25 16:40		
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		02/28/25 09:08	16887-00-6	
Fluoride	**0.060J**	mg/L	0.10	0.050	1		02/28/25 09:08	16984-48-8	
Sulfate	**3.5**	mg/L	1.0	0.50	1		02/28/25 09:08	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 14:38	03/19/25 14:05	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 14:05	7440-38-2	
Barium	**0.0083**	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 14:05	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/10/25 14:38	03/19/25 14:05	7440-41-7	
Boron	ND	mg/L	0.040	0.0062	1	03/10/25 14:38	03/20/25 05:14	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 14:38	03/19/25 14:05	7440-43-9	
Calcium	**1.8**	mg/L	1.0	0.10	1	03/10/25 14:38	03/19/25 14:05	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 14:05	7440-47-3	
Cobalt	**0.0014J**	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 14:05	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 14:38	03/19/25 14:05	7439-92-1	
Magnesium	**1.4**	mg/L	0.050	0.010	1	03/10/25 14:38	03/19/25 14:05	7439-95-4	
Molybdenum	**0.0032J**	mg/L	0.010	0.0025	1	03/10/25 14:38	03/19/25 14:05	7439-98-7	
Potassium	**2.0**	mg/L	0.50	0.10	1	03/10/25 14:38	03/19/25 14:05	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 14:05	7782-49-2	
Sodium	**4.8**	mg/L	1.0	0.15	1	03/10/25 14:38	03/19/25 14:05	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 14:38	03/19/25 14:05	7440-28-0	

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ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Sample: YAT-YGWA-1D **Lab ID: 92781909020** Collected: 02/25/25 14:25 Received: 02/26/25 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00366J**	mg/L	0.0300	0.000600	1	03/13/25 11:03	03/13/25 15:47	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/28/25 18:12	03/02/25 15:39	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**65.2**	mg/L	5.0	5.0	1		03/04/25 13:08		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/04/25 13:08		
Alkalinity, Total as CaCO3	**65.2**	mg/L	5.0	5.0	1		03/04/25 13:08		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**121**	mg/L	25.0	25.0	1		03/04/25 16:40		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**0.90J**	mg/L	1.0	0.60	1		02/28/25 09:52	16887-00-6	
Fluoride	**0.094J**	mg/L	0.10	0.050	1		02/28/25 09:52	16984-48-8	
Sulfate	**10.4**	mg/L	1.0	0.50	1		02/28/25 09:52	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/10/25 14:38	03/19/25 14:10	7440-36-0	
Arsenic	**0.0016J**	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 14:10	7440-38-2	
Barium	**0.0071**	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 14:10	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/10/25 14:38	03/19/25 14:10	7440-41-7	
Boron	ND	mg/L	0.040	0.0062	1	03/10/25 14:38	03/20/25 05:23	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/10/25 14:38	03/19/25 14:10	7440-43-9	
Calcium	**16.4**	mg/L	1.0	0.10	1	03/10/25 14:38	03/19/25 14:10	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 14:10	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 14:10	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/10/25 14:38	03/19/25 14:10	7439-92-1	
Magnesium	**1.9**	mg/L	0.050	0.010	1	03/10/25 14:38	03/19/25 14:10	7439-95-4	
Molybdenum	**0.010**	mg/L	0.010	0.0025	1	03/10/25 14:38	03/19/25 14:10	7439-98-7	
Potassium	**4.7**	mg/L	0.50	0.10	1	03/10/25 14:38	03/19/25 14:10	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/10/25 14:38	03/19/25 14:10	7782-49-2	
Sodium	**11.8**	mg/L	1.0	0.15	1	03/10/25 14:38	03/19/25 14:10	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/10/25 14:38	03/19/25 14:10	7440-28-0	

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ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Sample: YAT-YGWA-3I **Lab ID: 92781909021** Collected: 02/25/25 12:10 Received: 02/26/25 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.0168J**	mg/L	0.0300	0.000600	1	03/13/25 12:34	03/13/25 15:00	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/28/25 18:12	03/02/25 15:41	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**89.6**	mg/L	5.0	5.0	1		03/04/25 13:16		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/04/25 13:16		
Alkalinity, Total as CaCO3	**89.6**	mg/L	5.0	5.0	1		03/04/25 13:16		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**136**	mg/L	25.0	25.0	1		03/04/25 16:40		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**0.90J**	mg/L	1.0	0.60	1		02/28/25 10:07	16887-00-6	
Fluoride	**0.14**	mg/L	0.10	0.050	1		02/28/25 10:07	16984-48-8	
Sulfate	**10.9**	mg/L	1.0	0.50	1		02/28/25 10:07	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/17/25 08:40	03/19/25 16:18	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/17/25 08:40	03/19/25 16:18	7440-38-2	
Barium	**0.0036J**	mg/L	0.0050	0.0012	1	03/17/25 08:40	03/19/25 16:18	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/17/25 08:40	03/19/25 16:18	7440-41-7	
Boron	ND	mg/L	0.040	0.0062	1	03/17/25 08:40	03/20/25 09:01	7440-42-8	
Cadmium	**0.00046J**	mg/L	0.00050	0.00012	1	03/17/25 08:40	03/19/25 16:18	7440-43-9	
Calcium	**21.2**	mg/L	1.0	0.10	1	03/17/25 08:40	03/19/25 16:18	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/17/25 08:40	03/19/25 16:18	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/17/25 08:40	03/19/25 16:18	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/17/25 08:40	03/19/25 16:18	7439-92-1	
Magnesium	**5.3**	mg/L	0.050	0.010	1	03/17/25 08:40	03/19/25 16:18	7439-95-4	
Molybdenum	**0.0086J**	mg/L	0.010	0.0025	1	03/17/25 08:40	03/19/25 16:18	7439-98-7	
Potassium	**5.0**	mg/L	0.50	0.10	1	03/17/25 08:40	03/19/25 16:18	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/17/25 08:40	03/19/25 16:18	7782-49-2	
Sodium	**8.8**	mg/L	1.0	0.15	1	03/17/25 08:40	03/19/25 16:18	7440-23-5	
Thallium	**0.00053J**	mg/L	0.0010	0.00015	1	03/17/25 08:40	03/19/25 16:18	7440-28-0	

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ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Sample: YAT-YGWA-3D **Lab ID: 92781909022** Collected: 02/25/25 10:30 Received: 02/26/25 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.0219J**	mg/L	0.0300	0.000600	1	03/13/25 12:34	03/13/25 15:13	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/28/25 18:12	03/02/25 15:43	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**103**	mg/L	5.0	5.0	1		03/04/25 13:24		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/04/25 13:24		
Alkalinity, Total as CaCO3	**103**	mg/L	5.0	5.0	1		03/04/25 13:24		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**147**	mg/L	25.0	25.0	1		03/04/25 16:40		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**0.94J**	mg/L	1.0	0.60	1		02/28/25 10:22	16887-00-6	
Fluoride	**0.45**	mg/L	0.10	0.050	1		02/28/25 10:22	16984-48-8	
Sulfate	**6.7**	mg/L	1.0	0.50	1		02/28/25 10:22	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	**0.00072J**	mg/L	0.0030	0.00050	1	03/17/25 08:40	03/19/25 16:23	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/17/25 08:40	03/19/25 16:23	7440-38-2	
Barium	**0.0059**	mg/L	0.0050	0.0012	1	03/17/25 08:40	03/19/25 16:23	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/17/25 08:40	03/19/25 16:23	7440-41-7	
Boron	ND	mg/L	0.040	0.0062	1	03/17/25 08:40	03/20/25 09:10	7440-42-8	
Cadmium	**0.00051**	mg/L	0.00050	0.00012	1	03/17/25 08:40	03/19/25 16:23	7440-43-9	
Calcium	**27.9**	mg/L	1.0	0.10	1	03/17/25 08:40	03/19/25 16:23	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/17/25 08:40	03/19/25 16:23	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/17/25 08:40	03/19/25 16:23	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/17/25 08:40	03/19/25 16:23	7439-92-1	
Magnesium	**3.7**	mg/L	0.050	0.010	1	03/17/25 08:40	03/19/25 16:23	7439-95-4	
Molybdenum	**0.017**	mg/L	0.010	0.0025	1	03/17/25 08:40	03/19/25 16:23	7439-98-7	
Potassium	**3.6**	mg/L	0.50	0.10	1	03/17/25 08:40	03/19/25 16:23	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/17/25 08:40	03/19/25 16:23	7782-49-2	
Sodium	**9.7**	mg/L	1.0	0.15	1	03/17/25 08:40	03/19/25 16:23	7440-23-5	
Thallium	**0.00043J**	mg/L	0.0010	0.00015	1	03/17/25 08:40	03/19/25 16:23	7440-28-0	

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ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Sample: YAT-UGRD-EB-1 **Lab ID: 92781909023** Collected: 02/25/25 17:30 Received: 02/26/25 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	ND	mg/L	0.0300	0.000600	1	03/13/25 12:34	03/13/25 15:17	7439-93-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/28/25 18:12	03/02/25 15:46	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/04/25 13:32		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/04/25 13:32		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		03/04/25 13:32		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		03/04/25 16:41		
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		02/27/25 23:59	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/27/25 23:59	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/27/25 23:59	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/17/25 08:40	03/19/25 16:29	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/17/25 08:40	03/19/25 16:29	7440-38-2	
Barium	ND	mg/L	0.0050	0.0012	1	03/17/25 08:40	03/19/25 16:29	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/17/25 08:40	03/19/25 16:29	7440-41-7	
Boron	ND	mg/L	0.040	0.0062	1	03/17/25 08:40	03/20/25 09:19	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/17/25 08:40	03/19/25 16:29	7440-43-9	
Calcium	ND	mg/L	1.0	0.10	1	03/17/25 08:40	03/19/25 16:29	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/17/25 08:40	03/19/25 16:29	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/17/25 08:40	03/19/25 16:29	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/17/25 08:40	03/19/25 16:29	7439-92-1	
Magnesium	ND	mg/L	0.050	0.010	1	03/17/25 08:40	03/19/25 16:29	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/17/25 08:40	03/19/25 16:29	7439-98-7	
Potassium	ND	mg/L	0.50	0.10	1	03/17/25 08:40	03/19/25 16:29	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/17/25 08:40	03/19/25 16:29	7782-49-2	
Sodium	ND	mg/L	1.0	0.15	1	03/17/25 08:40	03/19/25 16:29	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/17/25 08:40	03/19/25 16:29	7440-28-0	

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ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Sample: YAT-UGRD-FD-1 **Lab ID: 92781909024** Collected: 02/25/25 00:00 Received: 02/26/25 13:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Metals (ICPMS) 6020B	Analytical Method: EPA 6020B Preparation Method: 3015 Pace National - Mt. Juliet								
Lithium	**0.00287J**	mg/L	0.0300	0.000600	1	03/13/25 12:34	03/13/25 15:20	7439-93-2	J
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Asheville								
Mercury	ND	mg/L	0.00020	0.00012	1	02/28/25 18:12	03/02/25 15:48	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**15.2**	mg/L	5.0	5.0	1		03/04/25 13:36		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/04/25 13:36		
Alkalinity, Total as CaCO3	**15.2**	mg/L	5.0	5.0	1		03/04/25 13:36		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**51.0**	mg/L	25.0	25.0	1		03/04/25 16:45		
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		02/28/25 10:37	16887-00-6	
Fluoride	**0.061J**	mg/L	0.10	0.050	1		02/28/25 10:37	16984-48-8	
Sulfate	**3.6**	mg/L	1.0	0.50	1		02/28/25 10:37	14808-79-8	
WC 6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - West Columbia								
Antimony	ND	mg/L	0.0030	0.00050	1	03/17/25 08:40	03/19/25 16:34	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/17/25 08:40	03/19/25 16:34	7440-38-2	
Barium	**0.0080**	mg/L	0.0050	0.0012	1	03/17/25 08:40	03/19/25 16:34	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/17/25 08:40	03/19/25 16:34	7440-41-7	
Boron	ND	mg/L	0.040	0.0062	1	03/17/25 08:40	03/20/25 09:28	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/17/25 08:40	03/19/25 16:34	7440-43-9	
Calcium	**1.7**	mg/L	1.0	0.10	1	03/17/25 08:40	03/19/25 16:34	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/17/25 08:40	03/19/25 16:34	7440-47-3	
Cobalt	**0.0013J**	mg/L	0.0050	0.0012	1	03/17/25 08:40	03/19/25 16:34	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/17/25 08:40	03/19/25 16:34	7439-92-1	
Magnesium	**1.4**	mg/L	0.050	0.010	1	03/17/25 08:40	03/19/25 16:34	7439-95-4	
Molybdenum	**0.0032J**	mg/L	0.010	0.0025	1	03/17/25 08:40	03/19/25 16:34	7439-98-7	
Potassium	**2.0**	mg/L	0.50	0.10	1	03/17/25 08:40	03/19/25 16:34	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/17/25 08:40	03/19/25 16:34	7782-49-2	
Sodium	**4.7**	mg/L	1.0	0.15	1	03/17/25 08:40	03/19/25 16:34	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/17/25 08:40	03/19/25 16:34	7440-28-0	

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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

QC Batch: 2467968
QC Batch Method: 3015
Analysis Method: EPA 6020B
Analysis Description: Metals (ICPMS) 6020B
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92781909001, 92781909002, 92781909003, 92781909004, 92781909005, 92781909006, 92781909007, 92781909008, 92781909009, 92781909010, 92781909011, 92781909012, 92781909013, 92781909014, 92781909015, 92781909016, 92781909017, 92781909018, 92781909019, 92781909020

METHOD BLANK: R4186055-1 Matrix: Water
Associated Lab Samples: 92781909001, 92781909002, 92781909003, 92781909004, 92781909005, 92781909006, 92781909007, 92781909008, 92781909009, 92781909010, 92781909011, 92781909012, 92781909013, 92781909014, 92781909015, 92781909016, 92781909017, 92781909018, 92781909019, 92781909020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lithium	mg/L	ND	0.0300	0.000600	03/13/25 13:59	

LABORATORY CONTROL SAMPLE: R4186055-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lithium	mg/L	0.0500	0.0477	95.4	80.0-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R4186055-4 R4186055-5

Parameter	Units	92781909001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	mg/L	ND	0.0500	0.0500	0.0494	0.0488	98.8	97.7	75.0-125	1.17	20	

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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

QC Batch: 2467969
QC Batch Method: 3015
Analysis Method: EPA 6020B
Analysis Description: Metals (ICPMS) 6020B
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92781909021, 92781909022, 92781909023, 92781909024

METHOD BLANK: R4186118-1 Matrix: Water
Associated Lab Samples: 92781909021, 92781909022, 92781909023, 92781909024

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

LABORATORY CONTROL SAMPLE: R4186118-2

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

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

Parameter	Units	92781909021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lithium	mg/L	0.0168	0.0500	0.0500	0.0639	0.0640	94.3	94.4	75.0-125	0.089	20	

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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

QC Batch: 919335
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92781909001, 92781909002, 92781909003, 92781909004, 92781909005, 92781909006, 92781909007, 92781909008, 92781909009, 92781909010, 92781909011, 92781909012, 92781909013, 92781909014, 92781909015, 92781909016, 92781909017, 92781909018

METHOD BLANK: 4724425 Matrix: Water
Associated Lab Samples: 92781909001, 92781909002, 92781909003, 92781909004, 92781909005, 92781909006, 92781909007, 92781909008, 92781909009, 92781909010, 92781909011, 92781909012, 92781909013, 92781909014, 92781909015, 92781909016, 92781909017, 92781909018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00012	03/02/25 14:31	

LABORATORY CONTROL SAMPLE: 4724426

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: 4724427 4724428

Parameter	Units	92781909001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0024	0.0025	96	99	75-125	3	25	

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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

QC Batch: 919385
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92781909019, 92781909020, 92781909021, 92781909022, 92781909023, 92781909024

METHOD BLANK: 4724796 Matrix: Water
Associated Lab Samples: 92781909019, 92781909020, 92781909021, 92781909022, 92781909023, 92781909024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00012	03/02/25 15:54	

LABORATORY CONTROL SAMPLE: 4724797

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0026	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4724798 4724799

Parameter	Units	92781909019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0026	0.0026	99	100	75-125	0	25	

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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

QC Batch: 919354
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92781909001, 92781909002, 92781909003, 92781909005, 92781909006, 92781909007, 92781909009, 92781909010, 92781909011, 92781909012, 92781909013, 92781909014, 92781909015, 92781909016, 92781909017, 92781909018, 92781909019

METHOD BLANK: 4724529 Matrix: Water
Associated Lab Samples: 92781909001, 92781909002, 92781909003, 92781909005, 92781909006, 92781909007, 92781909009, 92781909010, 92781909011, 92781909012, 92781909013, 92781909014, 92781909015, 92781909016, 92781909017, 92781909018, 92781909019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/28/25 23:02	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/28/25 23:02	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/28/25 23:02	

LABORATORY CONTROL SAMPLE: 4724530

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.8	102	80-120	

LABORATORY CONTROL SAMPLE: 4724531

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.9	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4724532 4724533

Parameter	Units	92781909018 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	51.2	49.5	102	98	80-120	3	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4724534 4724535

Parameter	Units	92781909019 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	15.0	50	50	65.2	63.3	100	97	80-120	3	25	

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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

QC Batch: 919795 | Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 | Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92781909020, 92781909021, 92781909022, 92781909023, 92781909024

METHOD BLANK: 4726469 Matrix: Water
Associated Lab Samples: 92781909020, 92781909021, 92781909022, 92781909023, 92781909024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	03/04/25 12:51	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	03/04/25 12:51	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	03/04/25 12:51	

LABORATORY CONTROL SAMPLE: 4726470

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.6	101	80-120	

LABORATORY CONTROL SAMPLE: 4726471

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4726472 4726473

Parameter	Units	92781183001 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	42900	50	50	43300	43200	842	500	80-120	0	25	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4726474 4726475

Parameter	Units	92781183004 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	33200	50	50	35600	34600	4920	2830	80-120	3	25	M1

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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

QC Batch: 919960
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92781909004, 92781909008

METHOD BLANK: 4727357 Matrix: Water
Associated Lab Samples: 92781909004, 92781909008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	03/04/25 18:33	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	03/04/25 18:33	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	03/04/25 18:33	

LABORATORY CONTROL SAMPLE: 4727358

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: 4727359

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.6	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4727360 4727361

Parameter	Units	92781710009 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	60.0	50	50	109	109	98	99	80-120	0	25	

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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

QC Batch: 919504
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92781909001, 92781909002, 92781909003

METHOD BLANK: 4725257 Matrix: Water
Associated Lab Samples: 92781909001, 92781909002, 92781909003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	03/03/25 23:04	

LABORATORY CONTROL SAMPLE: 4725258

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

SAMPLE DUPLICATE: 4726141

Parameter	Units	92781615001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	207	203	2	25	

SAMPLE DUPLICATE: 4726142

Parameter	Units	92781642007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	53.0	67.0	23	25	

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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

QC Batch: 919709
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92781909004, 92781909005, 92781909006, 92781909007, 92781909008, 92781909009, 92781909010, 92781909011, 92781909012, 92781909013, 92781909014, 92781909015, 92781909016, 92781909017, 92781909018, 92781909019, 92781909020, 92781909021, 92781909022, 92781909023

METHOD BLANK: 4726149 Matrix: Water
Associated Lab Samples: 92781909004, 92781909005, 92781909006, 92781909007, 92781909008, 92781909009, 92781909010, 92781909011, 92781909012, 92781909013, 92781909014, 92781909015, 92781909016, 92781909017, 92781909018, 92781909019, 92781909020, 92781909021, 92781909022, 92781909023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	03/04/25 16:37	

LABORATORY CONTROL SAMPLE: 4726150

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	254	101	90-110	

SAMPLE DUPLICATE: 4726151

Parameter	Units	92781909004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	228	229	0	25	

SAMPLE DUPLICATE: 4726152

Parameter	Units	92781909014 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	51.0	51.0	0	25	

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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

QC Batch: 919710
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92781909024

METHOD BLANK: 4726153 Matrix: Water
Associated Lab Samples: 92781909024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	03/04/25 16:45	

LABORATORY CONTROL SAMPLE: 4726154

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	256	102	90-110	

SAMPLE DUPLICATE: 4726155

Parameter	Units	92781909024 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	51.0	52.0	2	25	

SAMPLE DUPLICATE: 4726156

Parameter	Units	92782188021 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	219	213	3	25	

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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

QC Batch: 919134
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92781909001, 92781909002, 92781909003, 92781909004, 92781909005, 92781909006, 92781909007, 92781909008, 92781909009, 92781909010, 92781909011, 92781909012, 92781909013, 92781909014

METHOD BLANK: 4723553 Matrix: Water
Associated Lab Samples: 92781909001, 92781909002, 92781909003, 92781909004, 92781909005, 92781909006, 92781909007, 92781909008, 92781909009, 92781909010, 92781909011, 92781909012, 92781909013, 92781909014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/27/25 21:58	
Fluoride	mg/L	ND	0.10	0.050	02/27/25 21:58	
Sulfate	mg/L	ND	1.0	0.50	02/27/25 21:58	

LABORATORY CONTROL SAMPLE: 4723554

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.3	97	90-110	
Fluoride	mg/L	2.5	2.4	98	90-110	
Sulfate	mg/L	50	49.0	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4723555 4723556

Parameter	Units	92782109003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.7	50	50	58.6	56.7	106	102	90-110	3	10	
Fluoride	mg/L	0.22	2.5	2.5	2.9	2.8	108	104	90-110	3	10	
Sulfate	mg/L	12.8	50	50	66.8	64.9	108	104	90-110	3	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4723557 4723558

Parameter	Units	92781909005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	4.5	50	50	57.1	57.8	105	107	90-110	1	10	
Fluoride	mg/L	0.053J	2.5	2.5	2.7	2.7	105	107	90-110	2	10	
Sulfate	mg/L	15.4	50	50	69.0	69.7	107	109	90-110	1	10	

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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

QC Batch: 919137
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92781909015, 92781909016, 92781909017, 92781909018, 92781909019, 92781909020, 92781909021, 92781909022, 92781909023, 92781909024

METHOD BLANK: 4723565 Matrix: Water
Associated Lab Samples: 92781909015, 92781909016, 92781909017, 92781909018, 92781909019, 92781909020, 92781909021, 92781909022, 92781909023, 92781909024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/27/25 22:28	
Fluoride	mg/L	ND	0.10	0.050	02/27/25 22:28	
Sulfate	mg/L	ND	1.0	0.50	02/27/25 22:28	

LABORATORY CONTROL SAMPLE: 4723566

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.2	96	90-110	
Fluoride	mg/L	2.5	2.4	96	90-110	
Sulfate	mg/L	50	48.9	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4723567 4723568

Parameter	Units	92781909015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	4.1	50	50	54.6	58.4	101	108	90-110	7	10	
Fluoride	mg/L	0.052J	2.5	2.5	2.6	2.6	102	102	90-110	0	10	
Sulfate	mg/L	6.5	50	50	57.9	61.7	103	110	90-110	6	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4723569 4723570

Parameter	Units	92781915001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	50	50	48.3	53.1	97	106	90-110	10	10	
Fluoride	mg/L	ND	2.5	2.5	2.4	2.6	96	106	90-110	10	10	
Sulfate	mg/L	ND	50	50	48.5	53.4	97	107	90-110	10	10	

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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

QC Batch: 921177
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: WC 6020B MET
Laboratory: Pace Analytical Services - West Columbia
Associated Lab Samples: 92781909001, 92781909002, 92781909003, 92781909004, 92781909005, 92781909006, 92781909007, 92781909008, 92781909009, 92781909010, 92781909011, 92781909012, 92781909013, 92781909014, 92781909015, 92781909016, 92781909017, 92781909018, 92781909019, 92781909020

METHOD BLANK: 4733450
Matrix: Water
Associated Lab Samples: 92781909001, 92781909002, 92781909003, 92781909004, 92781909005, 92781909006, 92781909007, 92781909008, 92781909009, 92781909010, 92781909011, 92781909012, 92781909013, 92781909014, 92781909015, 92781909016, 92781909017, 92781909018, 92781909019, 92781909020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00050	03/19/25 11:24	
Arsenic	mg/L	ND	0.0050	0.0012	03/19/25 11:24	
Barium	mg/L	ND	0.0050	0.0012	03/19/25 11:24	
Beryllium	mg/L	ND	0.00050	0.00015	03/19/25 11:24	
Boron	mg/L	ND	0.040	0.0062	03/20/25 01:00	
Cadmium	mg/L	ND	0.00050	0.00012	03/19/25 11:24	
Calcium	mg/L	ND	1.0	0.10	03/19/25 11:24	
Chromium	mg/L	ND	0.0050	0.0012	03/19/25 11:24	
Cobalt	mg/L	ND	0.0050	0.0012	03/19/25 11:24	
Lead	mg/L	ND	0.0010	0.00025	03/19/25 11:24	
Magnesium	mg/L	ND	0.050	0.010	03/19/25 11:24	
Molybdenum	mg/L	ND	0.010	0.0025	03/19/25 11:24	
Potassium	mg/L	ND	0.50	0.10	03/19/25 11:24	
Selenium	mg/L	ND	0.0050	0.0012	03/19/25 11:24	
Sodium	mg/L	ND	1.0	0.15	03/19/25 11:24	
Thallium	mg/L	ND	0.0010	0.00015	03/19/25 11:24	

LABORATORY CONTROL SAMPLE: 4733451

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.099	99	80-120	
Arsenic	mg/L	0.1	0.097	97	80-120	
Barium	mg/L	0.1	0.096	96	80-120	
Beryllium	mg/L	0.1	0.092	92	80-120	
Boron	mg/L	0.1	0.10	100	80-120	
Cadmium	mg/L	0.1	0.097	97	80-120	
Calcium	mg/L	1	1.0	103	80-120	
Chromium	mg/L	0.1	0.099	99	80-120	
Cobalt	mg/L	0.1	0.10	105	80-120	
Lead	mg/L	0.1	0.098	98	80-120	
Magnesium	mg/L	1	1.0	101	80-120	
Molybdenum	mg/L	0.1	0.099	99	80-120	
Potassium	mg/L	1	1.1	107	80-120	
Selenium	mg/L	0.1	0.097	97	80-120	
Sodium	mg/L	1	1.1	109	80-120	

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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

LABORATORY CONTROL SAMPLE: 4733451

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Thallium	mg/L	0.1	0.099	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4733452 4733453

Parameter	Units	92781909009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.096	0.093	96	93	75-125	3	20	
Arsenic	mg/L	ND	0.1	0.1	0.096	0.094	96	94	75-125	2	20	
Barium	mg/L	0.020	0.1	0.1	0.11	0.11	95	93	75-125	2	20	
Beryllium	mg/L	ND	0.1	0.1	0.095	0.092	95	92	75-125	3	20	
Boron	mg/L	ND	0.1	0.1	0.11	0.11	107	107	75-125	0	20	
Cadmium	mg/L	ND	0.1	0.1	0.096	0.094	96	94	75-125	2	20	
Calcium	mg/L	2.8	1	1	3.7	3.6	87	82	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.095	0.093	95	93	75-125	2	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	102	101	75-125	2	20	
Lead	mg/L	ND	0.1	0.1	0.099	0.097	99	97	75-125	2	20	
Magnesium	mg/L	2.7	1	1	3.7	3.6	97	88	75-125	2	20	
Molybdenum	mg/L	ND	0.1	0.1	0.093	0.091	93	91	75-125	2	20	
Potassium	mg/L	1.6	1	1	2.5	2.5	92	91	75-125	1	20	
Selenium	mg/L	ND	0.1	0.1	0.096	0.097	96	97	75-125	1	20	
Sodium	mg/L	11.0	1	1	11.8	11.6	89	64	75-125	2	20	M1
Thallium	mg/L	ND	0.1	0.1	0.099	0.096	99	96	75-125	3	20	

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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

QC Batch: 922429
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: WC 6020B MET
Laboratory: Pace Analytical Services - West Columbia
Associated Lab Samples: 92781909021, 92781909022, 92781909023, 92781909024

METHOD BLANK: 4739876 Matrix: Water
Associated Lab Samples: 92781909021, 92781909022, 92781909023, 92781909024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00050	03/19/25 14:15	
Arsenic	mg/L	ND	0.0050	0.0012	03/19/25 14:15	
Barium	mg/L	ND	0.0050	0.0012	03/19/25 14:15	
Beryllium	mg/L	ND	0.00050	0.00015	03/19/25 14:15	
Boron	mg/L	ND	0.040	0.0062	03/20/25 05:32	
Cadmium	mg/L	ND	0.00050	0.00012	03/19/25 14:15	
Calcium	mg/L	ND	1.0	0.10	03/19/25 14:15	
Chromium	mg/L	ND	0.0050	0.0012	03/19/25 14:15	
Cobalt	mg/L	ND	0.0050	0.0012	03/19/25 14:15	
Lead	mg/L	ND	0.0010	0.00025	03/19/25 14:15	
Magnesium	mg/L	ND	0.050	0.010	03/19/25 14:15	
Molybdenum	mg/L	ND	0.010	0.0025	03/19/25 14:15	
Potassium	mg/L	ND	0.50	0.10	03/19/25 14:15	
Selenium	mg/L	ND	0.0050	0.0012	03/19/25 14:15	
Sodium	mg/L	ND	1.0	0.15	03/19/25 14:15	
Thallium	mg/L	ND	0.0010	0.00015	03/19/25 14:15	

LABORATORY CONTROL SAMPLE: 4739877

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.096	96	80-120	
Arsenic	mg/L	0.1	0.096	96	80-120	
Barium	mg/L	0.1	0.095	95	80-120	
Beryllium	mg/L	0.1	0.096	96	80-120	
Boron	mg/L	0.1	0.098	98	80-120	
Cadmium	mg/L	0.1	0.094	94	80-120	
Calcium	mg/L	1	1.0J	100	80-120	
Chromium	mg/L	0.1	0.097	97	80-120	
Cobalt	mg/L	0.1	0.10	102	80-120	
Lead	mg/L	0.1	0.097	97	80-120	
Magnesium	mg/L	1	0.99	99	80-120	
Molybdenum	mg/L	0.1	0.095	95	80-120	
Potassium	mg/L	1	1.0	103	80-120	
Selenium	mg/L	0.1	0.093	93	80-120	
Sodium	mg/L	1	1.0	103	80-120	
Thallium	mg/L	0.1	0.098	98	80-120	

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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4739878 4739879

Parameter	Units	92781127002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.093	0.093	93	93	75-125	0	20	
Arsenic	mg/L	ND	0.1	0.1	0.095	0.095	95	95	75-125	0	20	
Barium	mg/L	0.036	0.1	0.1	0.13	0.13	96	95	75-125	1	20	
Beryllium	mg/L	ND	0.1	0.1	0.095	0.096	95	96	75-125	1	20	
Boron	mg/L	0.019J	0.1	0.1	0.12	0.12	101	104	75-125	2	20	
Cadmium	mg/L	ND	0.1	0.1	0.094	0.094	94	94	75-125	0	20	
Calcium	mg/L	51.1	1	1	50.7	51.5	-46	35	75-125	2	20	M1
Chromium	mg/L	ND	0.1	0.1	0.095	0.096	95	95	75-125	1	20	
Cobalt	mg/L	ND	0.1	0.1	0.099	0.099	99	98	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.095	0.096	95	95	75-125	1	20	
Magnesium	mg/L	26.3	1	1	27.0	27.3	71	102	75-125	1	20	M1
Molybdenum	mg/L	ND	0.1	0.1	0.094	0.093	94	93	75-125	1	20	
Potassium	mg/L	1.4	1	1	2.5	2.4	103	99	75-125	2	20	
Selenium	mg/L	ND	0.1	0.1	0.095	0.095	94	94	75-125	0	20	
Sodium	mg/L	1.8	1	1	2.7	2.7	89	93	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.097	0.10	97	100	75-125	3	20	

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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(704)875-9092

QUALIFIERS

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

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

J	Analyte detected below the reporting limit, therefore result is an estimate. This qualifier is also used for all TICs.
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: YAT Pooled Upgradient
Pace Project No.: 92781909

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92781909001	**YAT-YGWA-17S**	3015	2467968	EPA 6020B	2467968
92781909002	**YAT-YGWA-18S**	3015	2467968	EPA 6020B	2467968
92781909003	**YAT-YGWA-18I**	3015	2467968	EPA 6020B	2467968
92781909004	**YAT-YGWA-39**	3015	2467968	EPA 6020B	2467968
92781909005	**YAT-YGWA-40**	3015	2467968	EPA 6020B	2467968
92781909006	**YAT-UGRD-FD-2**	3015	2467968	EPA 6020B	2467968
92781909007	**YAT-YGWA-21I**	3015	2467968	EPA 6020B	2467968
92781909008	**YAT-YGWA-4I**	3015	2467968	EPA 6020B	2467968
92781909009	**YAT-YGWA-5I**	3015	2467968	EPA 6020B	2467968
92781909010	**YAT-YGWA-5D**	3015	2467968	EPA 6020B	2467968
92781909011	**YAT-YGWA-20S**	3015	2467968	EPA 6020B	2467968
92781909012	**YAT-UGRD-EB-2**	3015	2467968	EPA 6020B	2467968
92781909013	**YAT-UGRD-FB-2**	3015	2467968	EPA 6020B	2467968
92781909014	**YAT-YGWA-30I**	3015	2467968	EPA 6020B	2467968
92781909015	**YAT-YGWA-14S**	3015	2467968	EPA 6020B	2467968
92781909016	**YAT-YGWA-2I**	3015	2467968	EPA 6020B	2467968
92781909017	**YAT-YGWA-47**	3015	2467968	EPA 6020B	2467968
92781909018	**YAT-UGRD-FB-1**	3015	2467968	EPA 6020B	2467968
92781909019	**YAT-YGWA-1I**	3015	2467968	EPA 6020B	2467968
92781909020	**YAT-YGWA-1D**	3015	2467968	EPA 6020B	2467968
92781909021	**YAT-YGWA-3I**	3015	2467969	EPA 6020B	2467969
92781909022	**YAT-YGWA-3D**	3015	2467969	EPA 6020B	2467969
92781909023	**YAT-UGRD-EB-1**	3015	2467969	EPA 6020B	2467969
92781909024	**YAT-UGRD-FD-1**	3015	2467969	EPA 6020B	2467969
92781909001	**YAT-YGWA-17S**	EPA 7470A	919335	EPA 7470A	919420
92781909002	**YAT-YGWA-18S**	EPA 7470A	919335	EPA 7470A	919420
92781909003	**YAT-YGWA-18I**	EPA 7470A	919335	EPA 7470A	919420
92781909004	**YAT-YGWA-39**	EPA 7470A	919335	EPA 7470A	919420
92781909005	**YAT-YGWA-40**	EPA 7470A	919335	EPA 7470A	919420
92781909006	**YAT-UGRD-FD-2**	EPA 7470A	919335	EPA 7470A	919420
92781909007	**YAT-YGWA-21I**	EPA 7470A	919335	EPA 7470A	919420
92781909008	**YAT-YGWA-4I**	EPA 7470A	919335	EPA 7470A	919420
92781909009	**YAT-YGWA-5I**	EPA 7470A	919335	EPA 7470A	919420
92781909010	**YAT-YGWA-5D**	EPA 7470A	919335	EPA 7470A	919420
92781909011	**YAT-YGWA-20S**	EPA 7470A	919335	EPA 7470A	919420
92781909012	**YAT-UGRD-EB-2**	EPA 7470A	919335	EPA 7470A	919420
92781909013	**YAT-UGRD-FB-2**	EPA 7470A	919335	EPA 7470A	919420
92781909014	**YAT-YGWA-30I**	EPA 7470A	919335	EPA 7470A	919420
92781909015	**YAT-YGWA-14S**	EPA 7470A	919335	EPA 7470A	919420
92781909016	**YAT-YGWA-2I**	EPA 7470A	919335	EPA 7470A	919420
92781909017	**YAT-YGWA-47**	EPA 7470A	919335	EPA 7470A	919420
92781909018	**YAT-UGRD-FB-1**	EPA 7470A	919335	EPA 7470A	919420
92781909019	**YAT-YGWA-1I**	EPA 7470A	919385	EPA 7470A	919421
92781909020	**YAT-YGWA-1D**	EPA 7470A	919385	EPA 7470A	919421
92781909021	**YAT-YGWA-3I**	EPA 7470A	919385	EPA 7470A	919421
92781909022	**YAT-YGWA-3D**	EPA 7470A	919385	EPA 7470A	919421
92781909023	**YAT-UGRD-EB-1**	EPA 7470A	919385	EPA 7470A	919421

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92781909024	**YAT-UGRD-FD-1**	EPA 7470A	919385	EPA 7470A	919421
92781909001	**YAT-YGWA-17S**	SM 2320B-2011	919354		
92781909002	**YAT-YGWA-18S**	SM 2320B-2011	919354		
92781909003	**YAT-YGWA-18I**	SM 2320B-2011	919354		
92781909004	**YAT-YGWA-39**	SM 2320B-2011	919960		
92781909005	**YAT-YGWA-40**	SM 2320B-2011	919354		
92781909006	**YAT-UGRD-FD-2**	SM 2320B-2011	919354		
92781909007	**YAT-YGWA-21I**	SM 2320B-2011	919354		
92781909008	**YAT-YGWA-4I**	SM 2320B-2011	919960		
92781909009	**YAT-YGWA-5I**	SM 2320B-2011	919354		
92781909010	**YAT-YGWA-5D**	SM 2320B-2011	919354		
92781909011	**YAT-YGWA-20S**	SM 2320B-2011	919354		
92781909012	**YAT-UGRD-EB-2**	SM 2320B-2011	919354		
92781909013	**YAT-UGRD-FB-2**	SM 2320B-2011	919354		
92781909014	**YAT-YGWA-30I**	SM 2320B-2011	919354		
92781909015	**YAT-YGWA-14S**	SM 2320B-2011	919354		
92781909016	**YAT-YGWA-2I**	SM 2320B-2011	919354		
92781909017	**YAT-YGWA-47**	SM 2320B-2011	919354		
92781909018	**YAT-UGRD-FB-1**	SM 2320B-2011	919354		
92781909019	**YAT-YGWA-1I**	SM 2320B-2011	919354		
92781909020	**YAT-YGWA-1D**	SM 2320B-2011	919795		
92781909021	**YAT-YGWA-3I**	SM 2320B-2011	919795		
92781909022	**YAT-YGWA-3D**	SM 2320B-2011	919795		
92781909023	**YAT-UGRD-EB-1**	SM 2320B-2011	919795		
92781909024	**YAT-UGRD-FD-1**	SM 2320B-2011	919795		
92781909001	**YAT-YGWA-17S**	SM 2540C-2015	919504		
92781909002	**YAT-YGWA-18S**	SM 2540C-2015	919504		
92781909003	**YAT-YGWA-18I**	SM 2540C-2015	919504		
92781909004	**YAT-YGWA-39**	SM 2540C-2015	919709		
92781909005	**YAT-YGWA-40**	SM 2540C-2015	919709		
92781909006	**YAT-UGRD-FD-2**	SM 2540C-2015	919709		
92781909007	**YAT-YGWA-21I**	SM 2540C-2015	919709		
92781909008	**YAT-YGWA-4I**	SM 2540C-2015	919709		
92781909009	**YAT-YGWA-5I**	SM 2540C-2015	919709		
92781909010	**YAT-YGWA-5D**	SM 2540C-2015	919709		
92781909011	**YAT-YGWA-20S**	SM 2540C-2015	919709		
92781909012	**YAT-UGRD-EB-2**	SM 2540C-2015	919709		
92781909013	**YAT-UGRD-FB-2**	SM 2540C-2015	919709		
92781909014	**YAT-YGWA-30I**	SM 2540C-2015	919709		
92781909015	**YAT-YGWA-14S**	SM 2540C-2015	919709		
92781909016	**YAT-YGWA-2I**	SM 2540C-2015	919709		
92781909017	**YAT-YGWA-47**	SM 2540C-2015	919709		
92781909018	**YAT-UGRD-FB-1**	SM 2540C-2015	919709		
92781909019	**YAT-YGWA-1I**	SM 2540C-2015	919709		
92781909020	**YAT-YGWA-1D**	SM 2540C-2015	919709		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92781909021	**YAT-YGWA-3I**	SM 2540C-2015	919709		
92781909022	**YAT-YGWA-3D**	SM 2540C-2015	919709		
92781909023	**YAT-UGRD-EB-1**	SM 2540C-2015	919709		
92781909024	**YAT-UGRD-FD-1**	SM 2540C-2015	919710		
92781909001	**YAT-YGWA-17S**	EPA 300.0 Rev 2.1 1993	919134		
92781909002	**YAT-YGWA-18S**	EPA 300.0 Rev 2.1 1993	919134		
92781909003	**YAT-YGWA-18I**	EPA 300.0 Rev 2.1 1993	919134		
92781909004	**YAT-YGWA-39**	EPA 300.0 Rev 2.1 1993	919134		
92781909005	**YAT-YGWA-40**	EPA 300.0 Rev 2.1 1993	919134		
92781909006	**YAT-UGRD-FD-2**	EPA 300.0 Rev 2.1 1993	919134		
92781909007	**YAT-YGWA-21I**	EPA 300.0 Rev 2.1 1993	919134		
92781909008	**YAT-YGWA-4I**	EPA 300.0 Rev 2.1 1993	919134		
92781909009	**YAT-YGWA-5I**	EPA 300.0 Rev 2.1 1993	919134		
92781909010	**YAT-YGWA-5D**	EPA 300.0 Rev 2.1 1993	919134		
92781909011	**YAT-YGWA-20S**	EPA 300.0 Rev 2.1 1993	919134		
92781909012	**YAT-UGRD-EB-2**	EPA 300.0 Rev 2.1 1993	919134		
92781909013	**YAT-UGRD-FB-2**	EPA 300.0 Rev 2.1 1993	919134		
92781909014	**YAT-YGWA-30I**	EPA 300.0 Rev 2.1 1993	919134		
92781909015	**YAT-YGWA-14S**	EPA 300.0 Rev 2.1 1993	919137		
92781909016	**YAT-YGWA-2I**	EPA 300.0 Rev 2.1 1993	919137		
92781909017	**YAT-YGWA-47**	EPA 300.0 Rev 2.1 1993	919137		
92781909018	**YAT-UGRD-FB-1**	EPA 300.0 Rev 2.1 1993	919137		
92781909019	**YAT-YGWA-1I**	EPA 300.0 Rev 2.1 1993	919137		
92781909020	**YAT-YGWA-1D**	EPA 300.0 Rev 2.1 1993	919137		
92781909021	**YAT-YGWA-3I**	EPA 300.0 Rev 2.1 1993	919137		
92781909022	**YAT-YGWA-3D**	EPA 300.0 Rev 2.1 1993	919137		
92781909023	**YAT-UGRD-EB-1**	EPA 300.0 Rev 2.1 1993	919137		
92781909024	**YAT-UGRD-FD-1**	EPA 300.0 Rev 2.1 1993	919137		
92781909001	**YAT-YGWA-17S**	EPA 3005A	921177	EPA 6020B	923563
92781909002	**YAT-YGWA-18S**	EPA 3005A	921177	EPA 6020B	923563
92781909003	**YAT-YGWA-18I**	EPA 3005A	921177	EPA 6020B	923563
92781909004	**YAT-YGWA-39**	EPA 3005A	921177	EPA 6020B	923563
92781909005	**YAT-YGWA-40**	EPA 3005A	921177	EPA 6020B	923563
92781909006	**YAT-UGRD-FD-2**	EPA 3005A	921177	EPA 6020B	923563
92781909007	**YAT-YGWA-21I**	EPA 3005A	921177	EPA 6020B	923563
92781909008	**YAT-YGWA-4I**	EPA 3005A	921177	EPA 6020B	923563
92781909009	**YAT-YGWA-5I**	EPA 3005A	921177	EPA 6020B	923563
92781909010	**YAT-YGWA-5D**	EPA 3005A	921177	EPA 6020B	923563
92781909011	**YAT-YGWA-20S**	EPA 3005A	921177	EPA 6020B	923563
92781909012	**YAT-UGRD-EB-2**	EPA 3005A	921177	EPA 6020B	923563
92781909013	**YAT-UGRD-FB-2**	EPA 3005A	921177	EPA 6020B	923563
92781909014	**YAT-YGWA-30I**	EPA 3005A	921177	EPA 6020B	923563
92781909015	**YAT-YGWA-14S**	EPA 3005A	921177	EPA 6020B	923563
92781909016	**YAT-YGWA-2I**	EPA 3005A	921177	EPA 6020B	923563
92781909017	**YAT-YGWA-47**	EPA 3005A	921177	EPA 6020B	923563
92781909018	**YAT-UGRD-FB-1**	EPA 3005A	921177	EPA 6020B	923563
92781909019	**YAT-YGWA-1I**	EPA 3005A	921177	EPA 6020B	923563

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT Pooled Upgradient
Pace Project No.: 92781909

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92781909020	**YAT-YGWA-1D**	EPA 3005A	921177	EPA 6020B	923563
92781909021	**YAT-YGWA-3I**	EPA 3005A	922429	EPA 6020B	923562
92781909022	**YAT-YGWA-3D**	EPA 3005A	922429	EPA 6020B	923562
92781909023	**YAT-UGRD-EB-1**	EPA 3005A	922429	EPA 6020B	923562
92781909024	**YAT-UGRD-FD-1**	EPA 3005A	922429	EPA 6020B	923562

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

Effective Date: 05/24/2024

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

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

WO#: 92781909

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

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

Date/Initials Person Examining Contents: 2/29/25

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

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

Thermometer: ☑ IR Gun ID: 083

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 1.1 Correction Factor: Add/Subtract (°C) +0.1

Cooler Temp Corrected (°C): 1.2

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

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

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

WO#: 92781909

PM: BV Due Date: 03/12/25

CLIENT: 92-GP-Yates

*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 #

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

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

ItemII	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 (NH4)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)
CC					BP/N																							
1		2	1		2	2																						
2		2	1		2	2																						
3		2	1		2	2																						
4		2	1		2	2																						
5		2	1		2	2																						
6		2	1		2	2																						
7		2	1		2	2																						
8		2	1		2	2																						
9		2	1		2	2																						
10		2	1		2	2																						
11		2	1		2	2																						
12		2	1		2	2																						

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.

WO#: 92781909

PM: BV Due Date: 03/12/25
CLIENT: 92-GP-Yates

*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 #

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

Client_____ Profile/EZ (Circle one)_____ Notes_____

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)	AGOU-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		2	1		2		2																							
2		2	1		2		2																							
3		2	1		2		2																							
4		2	1		2		2																							
5		2	1		2		2																							
6		2	1		2		2																							
7		2	1		2		2																							
8		2	1		2		2																							
9		2	1		2		2																							
10		2	1		2		2																							
11		2	1		2		2																							
12		2	1		2		2																							

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.

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

92781909

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2025S1	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT Pooled Upgradient	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [✓] No

Analysis:

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. CL2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment	Preservation non-conformance identified for sample
YAT-YGWA-47	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWA-21I	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWA-4I	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWA-5I	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWA-5D	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWA-17S	WG	G	2/25/25	1305	—	—		7		X	X	X	X	X	See Remarks DU1	
YAT-YGWA-18S	WG	G	2/25/25	1012	—	—		7		X	X	X	X	X	See Remarks DU2	
YAT-YGWA-18I	WG	G	2/25/25	1210	—	—		7		X	X	X	X	X	See Remarks DU3	
YAT-YGWA-20S	WG	G						7		X	X	X	X	X	See Remarks	
															See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) Jessica Ware
Signature: (Arcadis) Jessica Ware

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Jessica Ware / Arcadis	2/26/25 0830	Trey Singleton / ARCADIS	2/26/25 0830
Trey Singleton / ARCADIS	2/26/25 1143	Logan Williams / Pace	2/26/25 1143
Logan Williams / Pace	2/26/25 1355	Charles Hanks	2/26/25 1355
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In- Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

Page: 1 of 10

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ENV-FRM-CORC-0019_v01_082123

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

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Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2025S1	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____
Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [✓] No
Analysis:

Specify Container Size **: 3 3 2 1 3
Identify Container Preservative Type***: 2 1 1 2 1
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment	Preservation non-conformance identified for sample
YAT-YGWA-30I	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWA-14S	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWA-39	WG	G	2/25/25	1522	—			7		X	X	X	X	X	See Remarks 004	
YAT-YGWA-40	WG	G	2/25/25	1421	—			7		X	X	X	X	X	See Remarks 005	
YAT-YGWA-1I	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWA-1D	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWA-2I	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWA-3I	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWA-3D	WG	G						7		X	X	X	X	X	See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B, 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - Jessica Ware
Signature: (Arcadis) - Jessica Ware

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Jessica Ware / Arcadis	2/26/25 0830	[illegible] / ARCADIS	2/26/25 0830
[illegible] / ARCADIS	2/26/25 1143	Ryan Williams / Pace	2/26/25 1143
Ryan Williams / Pace	2/26/25 1355	[illegible]	2/26/25 1355
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier
[ ] FedEx [ ] UPS [ ] Other

Page: 2 of 10

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ENV-FRM-CORQ-0019_v01_082123

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singletori
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202551	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____
Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [✓] No

Analysis:

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

Preservation non conformance identified for sample.

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment
YAT-UGRD-EB-1	WG	G						7		X	X	X	X	X	See Remarks
YAT-UGRD-FB-1	WG	G						7		X	X	X	X	X	See Remarks
YAT-UGRD-EB-2	WG	G						7		X	X	X	X	X	See Remarks
YAT-UGRD-FB-2	WG	G						7		X	X	X	X	X	See Remarks
YAT-UGRD-FD-1	WG	G						7		X	X	X	X	X	See Remarks
YAT-UGRD-FD-2	WG	G	2/25/25	—				7		X	X	X	X	X	See Remarks UUU

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) Jessica Ware
Signature: (Arcadis) Jessica Ware

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Jessica Ware/Arcadis	2/26/25 0830	ARCADIS	2/26/25 0830
ARCADIS	2/26/25 1143	Pace	2/26/25 1143
Pace	2/26/25 1355		2/26/25 1355

Tracking Number:

Delivered by: [ ] In- Person [ ] Courier
[ ] FedEX [ ] UPS [ ] Other

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Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

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Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202551	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT Pooled Upgradient	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; Acct/Nam / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment	Preservation non-conformance identified for sample
YAT-YGWA-47	WG	G			—	—		7		X	X	X	X	X	See Remarks	
YAT-YGWA-21I	WG	G	2/25/25	1415	—	—		7		X	X	X	X	X	See Remarks W7	
YAT-YGWA-4I	WG	G	2/25/25	0948	—	—		7		X	X	X	X	X	See Remarks W6	
YAT-YGWA-5I	WG	G	2/25/25	1057	—	—		7		X	X	X	X	X	See Remarks W9	
YAT-YGWA-5D	WG	G	2/25/25	1156	—	—		7		X	X	X	X	X	See Remarks W10	
YAT-YGWA-17S	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWA-18S	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWA-18I	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWA-20S	WG	G	2/25/25	1548	—	—		7		X	X	X	X	X	See Remarks W11	
															See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - KIM LIAPSZYNSKI
Signature: (Arcadis) -

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In- Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 4 of 10

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ENV-FRM-CORQ-0019_v01_082123 ©

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

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Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2025S1	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [✓] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment
YAT-UGRD-EB-1	WG	G						7		X	X	X	X	X	See Remarks
YAT-UGRD-FB-1	WG	G						7		X	X	X	X	X	See Remarks
YAT-UGRD-EB-2	WG	G	2/25/25	1610	—	—		7		X	X	X	X	X	See Remarks 012
YAT-UGRD-FB-2	WG	G	2/25/25	1206	—	—		7		X	X	X	X	X	See Remarks 013
YAT-UGRD-FD-1	WG	G						7		X	X	X	X	X	See Remarks
YAT-UGRD-FD-2	WG	G						7		X	X	X	X	X	See Remarks

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample.

** Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B, 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - KIM WAPSZYNSKI
Signature: (Arcadis) -

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
ARCADIS	2/26/25 1143	Ryan Williams / Pace	2/26/25 1143
Ryan Williams / Pace	2/26/25 1355	[signature]	2/26/25 1355

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

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Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202551	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT Pooled Upgradient	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. CL2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment
YAT-YGWA-30I	WG	G	2/25/25	1455				7		X	X	X	X	X	See Remarks 014
YAT-YGWA-14S	WG	G	2/25/25	1300				7		X	X	X	X	X	See Remarks 015
YAT-YGWA-39	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-40	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-1I	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-1D	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-2I	WG	G	2/25/25	1125				7		X	X	X	X	X	See Remarks 016
YAT-YGWA-3I	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-3D	WG	G						7		X	X	X	X	X	See Remarks

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non conformance identified for sample.

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Ti; 7040A: Hg.
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - Perry Studebaker
Signature: (Arcadis) - Perry Studebaker

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Perry Studebaker / Arcadis	2/26/25 0830	Tiffani / ARCADIS	2/26/25 0830
Tiffani / ARCADIS	2/26/25 1143	Ryan Williams / Pace	2/26/25 1143
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time: 2/26/25 1354
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In- Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other

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Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

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Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202551	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT Pooled Upgradient	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____
Date Results Requested:

DW PWSID # or WW Permit # as applicable:
Field Filtered (if applicable): [ ] Yes [✓] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3
Identify Container Preservative Type***: 2 1 1 2 1
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment
YAT-YGWA-47	WG	G	2/25/25	1655	—	—		7		X	X	X	X	X	See Remarks 017
YAT-YGWA-21I	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-4I	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-5I	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-5D	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-17S	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-18S	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-18I	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-20S	WG	G						7		X	X	X	X	X	See Remarks
															See Remarks

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample.

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B, 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl, 7040A: Hg.
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - Perry Studebaker
Signature: (Arcadis) -

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Perry Studebaker / Arcadis	2/26/25 0830	[signature] / ARCADIS	2/26/25 0830
[signature] / ARCADIS	2/26/25 1143	Ryan Williams / Pace	2/26/25 1143
Ryan Williams / Pace	2/26/25 1355	[signature] 2/26/25	1355

Tracking Number:

Delivered by: [ ] In- Person [ ] Courier
[ ] FedEX [ ] UPS [ ] Other

Page: 7 of 10

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Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

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Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202551	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____
Date Results Requested:

DW PWSID # or WW Permit # as applicable:
Field Filtered (if applicable): [ ] Yes [✓] No
Analysis:

Specify Container Size **: 3 3 2 1 3
Identify Container Preservative Type***: 2 1 1 2 1
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment	Preservation non-conformance identified for sample
YAT-UGRD-EB-1	WG	G						7		X	X	X	X	X	See Remarks	
YAT-UGRD-FB-1	WG	G	2/25/25	1535	—			7		X	X	X	X	X	See Remarks 018	
YAT-UGRD-EB-2	WG	G						7		X	X	X	X	X	See Remarks	
YAT-UGRD-FB-2	WG	G						7		X	X	X	X	X	See Remarks	
YAT-UGRD-FD-1	WG	G						7		X	X	X	X	X	See Remarks	
YAT-UGRD-FD-2	WG	G						7		X	X	X	X	X	See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App iV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - Perry Studebaker
Signature: (Arcadis) - Perry Studebaker

Additional instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Perry Studebaker / Arcadis	2/26/25 0830	Ryan Williams / ARCADIS	2/26/25 0830
Ryan Williams / ARCADIS	2/26/25 1143	Ryan Williams / Pace	2/26/25 1143
Ryan Williams / Pace	2/26/25 1355	Carlos Hale 2/26/25	1355
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

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Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

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Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202551	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT Pooled Upgradient	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____
Date Results Requested:

OW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3
Identify Container Preservative Type***: 2 1 1 2 1
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment
YAT-YGWA-30I	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-14S	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-39	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-40	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-1I	WG	G	02/25/25	1640	—	—		7		X	X	X	X	X	See Remarks 019
YAT-YGWA-1D	WG	G	02/25/25	1425	—	—		7		X	X	X	X	X	See Remarks 020
YAT-YGWA-2I	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-3I	WG	G	02/25/25	1210	—	—		7		X	X	X	X	X	See Remarks 021
YAT-YGWA-3D	WG	G	02/25/25	1030	—	—		7		X	X	X	X	X	See Remarks 022

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:
Preservation non-conformance identified for sample

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - David Prouty
Signature: (Arcadis)

Additional Instructions from Pace®:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
	02/26/25 0815	ARCADIS	2/26/25 0815
ARCADIS	2/26/25 1143	Ryan Wilson / Pace	2/26/25 1143
Ryan Wilson / Pace	2/26/25 1355		2/26/25 1355

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

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Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

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Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202551	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample.

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment
YAT-UGRD-EB-1	WG	G	02/25/25	1730	—	—		7		X	X	X	X	X	See Remarks 023
YAT-UGRD-FB-1	WG	G						7		X	X	X	X	X	See Remarks
YAT-UGRD-EB-2	WG	G						7		X	X	X	X	X	See Remarks
YAT-UGRD-FB-2	WG	G						7		X	X	X	X	X	See Remarks
YAT-UGRD-FD-1	WG	G	02/25/25	—	—	—		7		X	X	X	X	X	See Remarks 024
YAT-UGRD-FD-2	WG	G						7		X	X	X	X	X	See Remarks

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) David Prouty
Signature: (Arcadis) David Prouty

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
David Prouty	02/26/25 0815	Arcadis	2/26/25 0815
Arcadis	2/26/25 1143	Ryan Williams / Pace	2/26/25 1143
Ryan Williams / Pace	2/26/25 1355	Charles Hanks	2/26/25 1355

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

Page: 10 of 10

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORO-0019_v01_082123

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

March 21, 2025

Trey Singleton
Southern Company
241 Ralp McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Dear Trey Singleton:

Enclosed are the analytical results for sample(s) received by the laboratory on February 26, 2025. 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
704-977-0968
Project Manager

Enclosures

cc: Geoffrey Gay, Arcadis-ATL
Laura Midkiff, Southern Company
Alex Simpson, Arcadis
Jessica Ware, Arcadis
Albert Zumbuhl, Arcadis

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CERTIFICATIONS

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
ANABISO/IEC 17025:2017 Rad Cert#: L24170
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 2950
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA010
Louisiana DEQ/TNI Certification #: 04086
Maine Certification #: 2023021
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 #: PA014572023-03
New Hampshire/TNI Certification #: 297622
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 #: PA200002-015
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN02867
Texas/TNI Certification #: T104704188-22-18
Utah/TNI Certification #: PA014572223-14
USDA Soil Permit #: 525-23-67-77263
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

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SAMPLE SUMMARY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92781912001	**YAT-YGWA-17S**	Water	02/25/25 13:05	02/26/25 13:55
92781912002	**YAT-YGWA-18S**	Water	02/25/25 10:12	02/26/25 13:55
92781912003	**YAT-YGWA-18I**	Water	02/25/25 12:10	02/26/25 13:55
92781912004	**YAT-YGWA-39**	Water	02/25/25 15:22	02/26/25 13:55
92781912005	**YAT-YGWA-40**	Water	02/25/25 14:21	02/26/25 13:55
92781912006	**YAT-UGRD-FD-2**	Water	02/25/25 00:00	02/26/25 13:55
92781912007	**YAT-YGWA-21I**	Water	02/25/25 14:15	02/26/25 13:55
92781912008	**YAT-YGWA-4I**	Water	02/25/25 09:48	02/26/25 13:55
92781912009	**YAT-YGWA-5I**	Water	02/25/25 10:57	02/26/25 13:55
92781912010	**YAT-YGWA-5D**	Water	02/25/25 11:56	02/26/25 13:55
92781912011	**YAT-YGWA-20S**	Water	02/25/25 15:48	02/26/25 13:55
92781912012	**YAT-UGRD-EB-2**	Water	02/25/25 16:10	02/26/25 13:55
92781912013	**YAT-UGRD-FB-2**	Water	02/25/25 12:06	02/26/25 13:55
92781912014	**YAT-YGWA-30I**	Water	02/25/25 14:55	02/26/25 13:55
92781912015	**YAT-YGWA-14S**	Water	02/25/25 13:00	02/26/25 13:55
92781912016	**YAT-YGWA-2I**	Water	02/25/25 11:25	02/26/25 13:55
92781912017	**YAT-YGWA-47**	Water	02/25/25 16:55	02/26/25 13:55
92781912018	**YAT-UGRD-FB-1**	Water	02/25/25 15:35	02/26/25 13:55
92781912019	**YAT-YGWA-1I**	Water	02/25/25 16:40	02/26/25 13:55
92781912020	**YAT-YGWA-1D**	Water	02/25/25 14:25	02/26/25 13:55
92781912021	**YAT-YGWA-3I**	Water	02/25/25 12:10	02/26/25 13:55
92781912022	**YAT-YGWA-3D**	Water	02/25/25 10:30	02/26/25 13:55
92781912023	**YAT-UGRD-EB-1**	Water	02/25/25 17:30	02/26/25 13:55
92781912024	**YAT-UGRD-FD-1**	Water	02/25/25 00:00	02/26/25 13:55

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
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(704)875-9092

SAMPLE ANALYTE COUNT

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92781912001	**YAT-YGWA-17S**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781912002	**YAT-YGWA-18S**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781912003	**YAT-YGWA-18I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781912004	**YAT-YGWA-39**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781912005	**YAT-YGWA-40**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781912006	**YAT-UGRD-FD-2**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781912007	**YAT-YGWA-21I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781912008	**YAT-YGWA-4I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781912009	**YAT-YGWA-5I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781912010	**YAT-YGWA-5D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781912011	**YAT-YGWA-20S**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781912012	**YAT-UGRD-EB-2**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781912013	**YAT-UGRD-FB-2**	EPA 9315	SLC	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781912014	**YAT-YGWA-30I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781912015	**YAT-YGWA-14S**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781912016	**YAT-YGWA-2I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781912017	**YAT-YGWA-47**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781912018	**YAT-UGRD-FB-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781912019	**YAT-YGWA-1I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781912020	**YAT-YGWA-1D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781912021	**YAT-YGWA-3I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781912022	**YAT-YGWA-3D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781912023	**YAT-UGRD-EB-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92781912024	**YAT-UGRD-FD-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92781912001	**YAT-YGWA-17S**					
EPA 9315	Radium-226	0.0768U ± 0.153 (0.353) C:75% T:NA	pCi/L		03/19/25 15:24	
EPA 9320	Radium-228	-0.0461U ± 0.349 (0.826) C:78% T:80%	pCi/L		03/19/25 14:13	
Total Radium Calculation	Total Radium	0.0768U ± 0.502 (1.18)	pCi/L		03/21/25 15:41	
92781912002	**YAT-YGWA-18S**					
EPA 9315	Radium-226	-0.0460U ± 0.140 (0.381) C:75% T:NA	pCi/L		03/19/25 15:24	
EPA 9320	Radium-228	0.359U ± 0.372 (0.770) C:81% T:88%	pCi/L		03/19/25 14:14	
Total Radium Calculation	Total Radium	0.359U ± 0.512 (1.15)	pCi/L		03/21/25 15:41	
92781912003	**YAT-YGWA-18I**					
EPA 9315	Radium-226	-0.0469U ± 0.103 (0.293) C:81% T:NA	pCi/L		03/19/25 15:24	
EPA 9320	Radium-228	0.391U ± 0.360 (0.725) C:77% T:88%	pCi/L		03/19/25 14:14	
Total Radium Calculation	Total Radium	0.391U ± 0.463 (1.02)	pCi/L		03/21/25 15:41	
92781912004	**YAT-YGWA-39**					
EPA 9315	Radium-226	0.259U ± 0.184 (0.341) C:76% T:NA	pCi/L		03/19/25 15:25	
EPA 9320	Radium-228	0.636U ± 0.433 (0.824) C:80% T:87%	pCi/L		03/19/25 14:14	
Total Radium Calculation	Total Radium	0.895U ± 0.617 (1.17)	pCi/L		03/21/25 15:41	

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SUMMARY OF DETECTION

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92781912005	**YAT-YGWA-40**					
EPA 9315	Radium-226	0.240U ± 0.173 (0.320) C:79% T:NA	pCi/L		03/19/25 15:26	
EPA 9320	Radium-228	0.445U ± 0.452 (0.940) C:76% T:82%	pCi/L		03/19/25 14:14	
Total Radium Calculation	Total Radium	0.685U ± 0.625 (1.26)	pCi/L		03/21/25 15:41	
92781912006	**YAT-UGRD-FD-2**					
EPA 9315	Radium-226	0.0937U ± 0.111 (0.228) C:84% T:NA	pCi/L		03/19/25 15:32	
EPA 9320	Radium-228	0.462U ± 0.344 (0.672) C:80% T:92%	pCi/L		03/19/25 14:14	
Total Radium Calculation	Total Radium	0.556U ± 0.455 (0.900)	pCi/L		03/21/25 15:41	
92781912007	**YAT-YGWA-21I**					
EPA 9315	Radium-226	0.384 ± 0.190 (0.298) C:82% T:NA	pCi/L		03/20/25 09:57	
EPA 9320	Radium-228	0.756U ± 0.503 (0.968) C:76% T:77%	pCi/L		03/19/25 14:14	
Total Radium Calculation	Total Radium	1.14U ± 0.693 (1.27)	pCi/L		03/21/25 15:41	
92781912008	**YAT-YGWA-4I**					
EPA 9315	Radium-226	0.757 ± 0.245 (0.239) C:78% T:NA	pCi/L		03/20/25 08:34	
EPA 9320	Radium-228	0.781U ± 0.453 (0.845) C:82% T:88%	pCi/L		03/19/25 14:14	
Total Radium Calculation	Total Radium	1.54 ± 0.698 (1.08)	pCi/L		03/21/25 15:41	

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SUMMARY OF DETECTION

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92781912009	**YAT-YGWA-5I**					
EPA 9315	Radium-226	0.0769U ± 0.134 (0.305) C:87% T:NA	pCi/L		03/20/25 08:35	
EPA 9320	Radium-228	0.690U ± 0.443 (0.843) C:76% T:87%	pCi/L		03/19/25 14:14	
Total Radium Calculation	Total Radium	0.767U ± 0.577 (1.15)	pCi/L		03/21/25 15:41	
92781912010	**YAT-YGWA-5D**					
EPA 9315	Radium-226	2.54 ± 0.523 (0.283) C:86% T:NA	pCi/L		03/20/25 08:35	
EPA 9320	Radium-228	1.11 ± 0.522 (0.903) C:78% T:85%	pCi/L		03/19/25 14:14	
Total Radium Calculation	Total Radium	3.65 ± 1.05 (1.19)	pCi/L		03/21/25 15:41	
92781912011	**YAT-YGWA-20S**					
EPA 9315	Radium-226	0.194U ± 0.155 (0.301) C:89% T:NA	pCi/L		03/20/25 08:35	
EPA 9320	Radium-228	1.01U ± 0.603 (1.15) C:74% T:82%	pCi/L		03/19/25 14:15	
Total Radium Calculation	Total Radium	1.20U ± 0.758 (1.45)	pCi/L		03/21/25 15:41	
92781912012	**YAT-UGRD-EB-2**					
EPA 9315	Radium-226	0.0555U ± 0.144 (0.340) C:83% T:NA	pCi/L		03/20/25 08:35	
EPA 9320	Radium-228	0.753U ± 0.520 (1.02) C:75% T:89%	pCi/L		03/19/25 14:15	
Total Radium Calculation	Total Radium	0.809U ± 0.664 (1.36)	pCi/L		03/21/25 15:41	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92781912013	**YAT-UGRD-FB-2**					
EPA 9315	Radium-226	-0.00958U ± 0.116 (0.304) C:85% T:NA	pCi/L		03/20/25 08:36	
EPA 9320	Radium-228	0.364U ± 0.429 (0.903) C:72% T:81%	pCi/L		03/19/25 14:15	
Total Radium Calculation	Total Radium	0.364U ± 0.545 (1.21)	pCi/L		03/21/25 15:41	
92781912014	**YAT-YGWA-30I**					
EPA 9315	Radium-226	0.0331U ± 0.135 (0.330) C:85% T:NA	pCi/L		03/20/25 09:36	
EPA 9320	Radium-228	0.352U ± 0.383 (0.799) C:78% T:84%	pCi/L		03/19/25 14:15	
Total Radium Calculation	Total Radium	0.385U ± 0.518 (1.13)	pCi/L		03/21/25 15:41	
92781912015	**YAT-YGWA-14S**					
EPA 9315	Radium-226	0.0794U ± 0.153 (0.350) C:72% T:NA	pCi/L		03/20/25 09:57	
EPA 9320	Radium-228	0.297U ± 0.385 (0.818) C:77% T:76%	pCi/L		03/19/25 14:15	
Total Radium Calculation	Total Radium	0.376U ± 0.538 (1.17)	pCi/L		03/21/25 15:41	
92781912016	**YAT-YGWA-2I**					
EPA 9315	Radium-226	0.0842U ± 0.113 (0.242) C:84% T:NA	pCi/L		03/20/25 08:37	
EPA 9320	Radium-228	0.0385U ± 0.350 (0.807) C:76% T:83%	pCi/L		03/19/25 14:15	
Total Radium Calculation	Total Radium	0.123U ± 0.463 (1.05)	pCi/L		03/21/25 15:41	

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SUMMARY OF DETECTION

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92781912017	**YAT-YGWA-47**					
EPA 9315	Radium-226	0.337U ± 0.201 (0.351) C:73% T:NA	pCi/L		03/20/25 09:58	
EPA 9320	Radium-228	0.761U ± 0.594 (1.20) C:80% T:74%	pCi/L		03/19/25 14:16	
Total Radium Calculation	Total Radium	1.10U ± 0.795 (1.55)	pCi/L		03/21/25 15:41	
92781912018	**YAT-UGRD-FB-1**					
EPA 9315	Radium-226	-0.104U ± 0.105 (0.321) C:89% T:NA	pCi/L		03/20/25 09:35	
EPA 9320	Radium-228	0.857U ± 0.525 (0.998) C:77% T:84%	pCi/L		03/19/25 14:16	
Total Radium Calculation	Total Radium	0.857U ± 0.630 (1.32)	pCi/L		03/21/25 15:41	
92781912019	**YAT-YGWA-1I**					
EPA 9315	Radium-226	0.168U ± 0.145 (0.282) C:88% T:NA	pCi/L		03/20/25 13:18	
EPA 9320	Radium-228	0.810U ± 0.492 (0.939) C:77% T:90%	pCi/L		03/20/25 10:54	
Total Radium Calculation	Total Radium	0.978U ± 0.637 (1.22)	pCi/L		03/21/25 15:45	
92781912020	**YAT-YGWA-1D**					
EPA 9315	Radium-226	0.295 ± 0.161 (0.242) C:81% T:NA	pCi/L		03/20/25 13:12	
EPA 9320	Radium-228	0.948 ± 0.510 (0.947) C:75% T:90%	pCi/L		03/20/25 10:54	
Total Radium Calculation	Total Radium	1.24 ± 0.671 (1.19)	pCi/L		03/21/25 15:45	

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SUMMARY OF DETECTION

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92781912021	**YAT-YGWA-3I**					
EPA 9315	Radium-226	0.529 ± 0.212 (0.286) C:87% T:NA	pCi/L		03/20/25 13:12	
EPA 9320	Radium-228	0.934 ± 0.432 (0.728) C:74% T:91%	pCi/L		03/20/25 10:54	
Total Radium Calculation	Total Radium	1.46 ± 0.644 (1.01)	pCi/L		03/21/25 15:45	
92781912022	**YAT-YGWA-3D**					
EPA 9315	Radium-226	1.33 ± 0.356 (0.320) C:76% T:NA	pCi/L		03/20/25 11:39	
EPA 9320	Radium-228	1.71 ± 0.581 (0.865) C:79% T:95%	pCi/L		03/20/25 10:54	
Total Radium Calculation	Total Radium	3.04 ± 0.937 (1.19)	pCi/L		03/21/25 15:45	
92781912023	**YAT-UGRD-EB-1**					
EPA 9315	Radium-226	0.0590U ± 0.129 (0.301) C:83% T:NA	pCi/L		03/20/25 11:42	
EPA 9320	Radium-228	1.09 ± 0.470 (0.792) C:80% T:95%	pCi/L		03/20/25 10:54	
Total Radium Calculation	Total Radium	1.15 ± 0.599 (1.09)	pCi/L		03/21/25 15:45	
92781912024	**YAT-UGRD-FD-1**					
EPA 9315	Radium-226	-0.0914U ± 0.104 (0.332) C:81% T:NA	pCi/L		03/20/25 13:11	
EPA 9320	Radium-228	0.270U ± 0.436 (0.946) C:72% T:91%	pCi/L		03/20/25 10:54	
Total Radium Calculation	Total Radium	0.270U ± 0.540 (1.28)	pCi/L		03/21/25 15:45	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Sample: YAT-YGWA-17S **Lab ID: 92781912001** Collected: 02/25/25 13:05 Received: 02/26/25 13:55 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	**0.0768U ± 0.153 (0.353) C:75% T:NA**	pCi/L	03/19/25 15:24	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.0461U ± 0.349 (0.826) C:78% T:80%**	pCi/L	03/19/25 14:13	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.0768U ± 0.502 (1.18)**	pCi/L	03/21/25 15:41	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Sample: YAT-YGWA-18S **Lab ID: 92781912002** Collected: 02/25/25 10:12 Received: 02/26/25 13:55 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	**-0.0460U ± 0.140 (0.381) C:75% T:NA**	pCi/L	03/19/25 15:24	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.359U ± 0.372 (0.770) C:81% T:88%**	pCi/L	03/19/25 14:14	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.359U ± 0.512 (1.15)**	pCi/L	03/21/25 15:41	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Sample: YAT-YGWA-18I **Lab ID: 92781912003** Collected: 02/25/25 12:10 Received: 02/26/25 13:55 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	**-0.0469U ± 0.103 (0.293) C:81% T:NA**	pCi/L	03/19/25 15:24	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.391U ± 0.360 (0.725) C:77% T:88%**	pCi/L	03/19/25 14:14	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.391U ± 0.463 (1.02)**	pCi/L	03/21/25 15:41	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Sample: YAT-YGWA-39 **Lab ID: 92781912004** Collected: 02/25/25 15:22 Received: 02/26/25 13:55 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	**0.259U ± 0.184 (0.341) C:76% T:NA**	pCi/L	03/19/25 15:25	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.636U ± 0.433 (0.824) C:80% T:87%**	pCi/L	03/19/25 14:14	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.895U ± 0.617 (1.17)**	pCi/L	03/21/25 15:41	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Sample: YAT-YGWA-40 **Lab ID: 92781912005** Collected: 02/25/25 14:21 Received: 02/26/25 13:55 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	**0.240U ± 0.173 (0.320) C:79% T:NA**	pCi/L	03/19/25 15:26	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.445U ± 0.452 (0.940) C:76% T:82%**	pCi/L	03/19/25 14:14	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.685U ± 0.625 (1.26)**	pCi/L	03/21/25 15:41	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Sample: YAT-UGRD-FD-2 **Lab ID: 92781912006** Collected: 02/25/25 00:00 Received: 02/26/25 13:55 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	**0.0937U ± 0.111 (0.228) C:84% T:NA**	pCi/L	03/19/25 15:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.462U ± 0.344 (0.672) C:80% T:92%**	pCi/L	03/19/25 14:14	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.556U ± 0.455 (0.900)**	pCi/L	03/21/25 15:41	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Sample: YAT-YGWA-21I **Lab ID: 92781912007** Collected: 02/25/25 14:15 Received: 02/26/25 13:55 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	**0.384 ± 0.190 (0.298) C:82% T:NA**	pCi/L	03/20/25 09:57	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.756U ± 0.503 (0.968) C:76% T:77%**	pCi/L	03/19/25 14:14	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.14U ± 0.693 (1.27)**	pCi/L	03/21/25 15:41	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Sample: YAT-YGWA-4I **Lab ID: 92781912008** Collected: 02/25/25 09:48 Received: 02/26/25 13:55 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	**0.757 ± 0.245 (0.239) C:78% T:NA**	pCi/L	03/20/25 08:34	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.781U ± 0.453 (0.845) C:82% T:88%**	pCi/L	03/19/25 14:14	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.54 ± 0.698 (1.08)**	pCi/L	03/21/25 15:41	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Sample: YAT-YGWA-5I **Lab ID: 92781912009** Collected: 02/25/25 10:57 Received: 02/26/25 13:55 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	**0.0769U ± 0.134 (0.305) C:87% T:NA**	pCi/L	03/20/25 08:35	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.690U ± 0.443 (0.843) C:76% T:87%**	pCi/L	03/19/25 14:14	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.767U ± 0.577 (1.15)**	pCi/L	03/21/25 15:41	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Sample: YAT-YGWA-5D **Lab ID: 92781912010** Collected: 02/25/25 11:56 Received: 02/26/25 13:55 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	**2.54 ± 0.523 (0.283) C:86% T:NA**	pCi/L	03/20/25 08:35	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.11 ± 0.522 (0.903) C:78% T:85%**	pCi/L	03/19/25 14:14	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**3.65 ± 1.05 (1.19)**	pCi/L	03/21/25 15:41	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Sample: YAT-YGWA-20S **Lab ID: 92781912011** Collected: 02/25/25 15:48 Received: 02/26/25 13:55 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	**0.194U ± 0.155 (0.301) C:89% T:NA**	pCi/L	03/20/25 08:35	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.01U ± 0.603 (1.15) C:74% T:82%**	pCi/L	03/19/25 14:15	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.20U ± 0.758 (1.45)**	pCi/L	03/21/25 15:41	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Sample: YAT-UGRD-EB-2 **Lab ID: 92781912012** Collected: 02/25/25 16:10 Received: 02/26/25 13:55 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	**0.0555U ± 0.144 (0.340) C:83% T:NA**	pCi/L	03/20/25 08:35	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.753U ± 0.520 (1.02) C:75% T:89%**	pCi/L	03/19/25 14:15	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.809U ± 0.664 (1.36)**	pCi/L	03/21/25 15:41	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Sample: YAT-UGRD-FB-2 **Lab ID: 92781912013** Collected: 02/25/25 12:06 Received: 02/26/25 13:55 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	**-0.00958U ± 0.116 (0.304) C:85% T:NA**	pCi/L	03/20/25 08:36	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.364U ± 0.429 (0.903) C:72% T:81%**	pCi/L	03/19/25 14:15	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.364U ± 0.545 (1.21)**	pCi/L	03/21/25 15:41	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Sample: YAT-YGWA-30I **Lab ID: 92781912014** Collected: 02/25/25 14:55 Received: 02/26/25 13:55 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	**0.0331U ± 0.135 (0.330) C:85% T:NA**	pCi/L	03/20/25 09:36	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.352U ± 0.383 (0.799) C:78% T:84%**	pCi/L	03/19/25 14:15	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.385U ± 0.518 (1.13)**	pCi/L	03/21/25 15:41	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Sample: YAT-YGWA-14S **Lab ID: 92781912015** Collected: 02/25/25 13:00 Received: 02/26/25 13:55 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	**0.0794U ± 0.153 (0.350) C:72% T:NA**	pCi/L	03/20/25 09:57	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.297U ± 0.385 (0.818) C:77% T:76%**	pCi/L	03/19/25 14:15	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.376U ± 0.538 (1.17)**	pCi/L	03/21/25 15:41	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Sample: YAT-YGWA-2I **Lab ID: 92781912016** Collected: 02/25/25 11:25 Received: 02/26/25 13:55 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	**0.0842U ± 0.113 (0.242) C:84% T:NA**	pCi/L	03/20/25 08:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.0385U ± 0.350 (0.807) C:76% T:83%**	pCi/L	03/19/25 14:15	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.123U ± 0.463 (1.05)**	pCi/L	03/21/25 15:41	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Sample: YAT-YGWA-47 **Lab ID: 92781912017** Collected: 02/25/25 16:55 Received: 02/26/25 13:55 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	**0.337U ± 0.201 (0.351) C:73% T:NA**	pCi/L	03/20/25 09:58	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.761U ± 0.594 (1.20) C:80% T:74%**	pCi/L	03/19/25 14:16	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.10U ± 0.795 (1.55)**	pCi/L	03/21/25 15:41	7440-14-4	

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(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Sample: YAT-UGRD-FB-1 **Lab ID: 92781912018** Collected: 02/25/25 15:35 Received: 02/26/25 13:55 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	**-0.104U ± 0.105 (0.321) C:89% T:NA**	pCi/L	03/20/25 09:35	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.857U ± 0.525 (0.998) C:77% T:84%**	pCi/L	03/19/25 14:16	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.857U ± 0.630 (1.32)**	pCi/L	03/21/25 15:41	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Sample: YAT-YGWA-1I **Lab ID: 92781912019** Collected: 02/25/25 16:40 Received: 02/26/25 13:55 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	**0.168U ± 0.145 (0.282) C:88% T:NA**	pCi/L	03/20/25 13:18	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.810U ± 0.492 (0.939) C:77% T:90%**	pCi/L	03/20/25 10:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.978U ± 0.637 (1.22)**	pCi/L	03/21/25 15:45	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Sample: YAT-YGWA-1D **Lab ID: 92781912020** Collected: 02/25/25 14:25 Received: 02/26/25 13:55 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	**0.295 ± 0.161 (0.242) C:81% T:NA**	pCi/L	03/20/25 13:12	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.948 ± 0.510 (0.947) C:75% T:90%**	pCi/L	03/20/25 10:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.24 ± 0.671 (1.19)**	pCi/L	03/21/25 15:45	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Sample: YAT-YGWA-3I **Lab ID: 92781912021** Collected: 02/25/25 12:10 Received: 02/26/25 13:55 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	**0.529 ± 0.212 (0.286) C:87% T:NA**	pCi/L	03/20/25 13:12	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.934 ± 0.432 (0.728) C:74% T:91%**	pCi/L	03/20/25 10:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.46 ± 0.644 (1.01)**	pCi/L	03/21/25 15:45	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Sample: YAT-YGWA-3D **Lab ID: 92781912022** Collected: 02/25/25 10:30 Received: 02/26/25 13:55 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	**1.33 ± 0.356 (0.320) C:76% T:NA**	pCi/L	03/20/25 11:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.71 ± 0.581 (0.865) C:79% T:95%**	pCi/L	03/20/25 10:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**3.04 ± 0.937 (1.19)**	pCi/L	03/21/25 15:45	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Sample: YAT-UGRD-EB-1 **Lab ID: 92781912023** Collected: 02/25/25 17:30 Received: 02/26/25 13:55 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	**0.0590U ± 0.129 (0.301) C:83% T:NA**	pCi/L	03/20/25 11:42	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.09 ± 0.470 (0.792) C:80% T:95%**	pCi/L	03/20/25 10:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.15 ± 0.599 (1.09)**	pCi/L	03/21/25 15:45	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Sample: YAT-UGRD-FD-1 **Lab ID: 92781912024** Collected: 02/25/25 00:00 Received: 02/26/25 13:55 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	**-0.0914U ± 0.104 (0.332) C:81% T:NA**	pCi/L	03/20/25 13:11	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.270U ± 0.436 (0.946) C:72% T:91%**	pCi/L	03/20/25 10:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.270U ± 0.540 (1.28)**	pCi/L	03/21/25 15:45	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

QC Batch: 730120
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92781912001, 92781912002, 92781912003, 92781912004, 92781912005, 92781912006, 92781912007, 92781912008, 92781912009, 92781912010, 92781912011, 92781912012, 92781912013, 92781912014, 92781912015, 92781912016, 92781912017, 92781912018

METHOD BLANK: 3553852
Matrix: Water
Associated Lab Samples: 92781912001, 92781912002, 92781912003, 92781912004, 92781912005, 92781912006, 92781912007, 92781912008, 92781912009, 92781912010, 92781912011, 92781912012, 92781912013, 92781912014, 92781912015, 92781912016, 92781912017, 92781912018

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.612 ± 0.395 (0.745) C:80% T:84%	pCi/L	03/19/25 14:13	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

QC Batch: 730410 Analysis Method: EPA 9315
QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92781912019, 92781912020, 92781912021, 92781912022, 92781912023, 92781912024

METHOD BLANK: 3555194 Matrix: Water
Associated Lab Samples: 92781912019, 92781912020, 92781912021, 92781912022, 92781912023, 92781912024

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0615 ± 0.123 (0.285) C:86% T:NA	pCi/L	03/20/25 11:32	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

QC Batch: 730117
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92781912001, 92781912002, 92781912003, 92781912004, 92781912005, 92781912006, 92781912007, 92781912008, 92781912009, 92781912010, 92781912011, 92781912012, 92781912013, 92781912014, 92781912015, 92781912016, 92781912017, 92781912018

METHOD BLANK: 3553848
Matrix: Water
Associated Lab Samples: 92781912001, 92781912002, 92781912003, 92781912004, 92781912005, 92781912006, 92781912007, 92781912008, 92781912009, 92781912010, 92781912011, 92781912012, 92781912013, 92781912014, 92781912015, 92781912016, 92781912017, 92781912018

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0406 ± 0.152 (0.373) C:63% T:NA	pCi/L	03/19/25 15:21	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

QC Batch: 730407 Analysis Method: EPA 9320
QC Batch Method: EPA 9320 Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92781912019, 92781912020, 92781912021, 92781912022, 92781912023, 92781912024

METHOD BLANK: 3555191 Matrix: Water
Associated Lab Samples: 92781912019, 92781912020, 92781912021, 92781912022, 92781912023, 92781912024

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.660 ± 0.368 (0.662) C:76% T:91%	pCi/L	03/20/25 10:54	

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QUALIFIERS

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

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: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92781912001	**YAT-YGWA-17S**	EPA 9315	730117		
92781912002	**YAT-YGWA-18S**	EPA 9315	730117		
92781912003	**YAT-YGWA-18I**	EPA 9315	730117		
92781912004	**YAT-YGWA-39**	EPA 9315	730117		
92781912005	**YAT-YGWA-40**	EPA 9315	730117		
92781912006	**YAT-UGRD-FD-2**	EPA 9315	730117		
92781912007	**YAT-YGWA-21I**	EPA 9315	730117		
92781912008	**YAT-YGWA-4I**	EPA 9315	730117		
92781912009	**YAT-YGWA-5I**	EPA 9315	730117		
92781912010	**YAT-YGWA-5D**	EPA 9315	730117		
92781912011	**YAT-YGWA-20S**	EPA 9315	730117		
92781912012	**YAT-UGRD-EB-2**	EPA 9315	730117		
92781912013	**YAT-UGRD-FB-2**	EPA 9315	730117		
92781912014	**YAT-YGWA-30I**	EPA 9315	730117		
92781912015	**YAT-YGWA-14S**	EPA 9315	730117		
92781912016	**YAT-YGWA-2I**	EPA 9315	730117		
92781912017	**YAT-YGWA-47**	EPA 9315	730117		
92781912018	**YAT-UGRD-FB-1**	EPA 9315	730117		
92781912019	**YAT-YGWA-1I**	EPA 9315	730410		
92781912020	**YAT-YGWA-1D**	EPA 9315	730410		
92781912021	**YAT-YGWA-3I**	EPA 9315	730410		
92781912022	**YAT-YGWA-3D**	EPA 9315	730410		
92781912023	**YAT-UGRD-EB-1**	EPA 9315	730410		
92781912024	**YAT-UGRD-FD-1**	EPA 9315	730410		
92781912001	**YAT-YGWA-17S**	EPA 9320	730120		
92781912002	**YAT-YGWA-18S**	EPA 9320	730120		
92781912003	**YAT-YGWA-18I**	EPA 9320	730120		
92781912004	**YAT-YGWA-39**	EPA 9320	730120		
92781912005	**YAT-YGWA-40**	EPA 9320	730120		
92781912006	**YAT-UGRD-FD-2**	EPA 9320	730120		
92781912007	**YAT-YGWA-21I**	EPA 9320	730120		
92781912008	**YAT-YGWA-4I**	EPA 9320	730120		
92781912009	**YAT-YGWA-5I**	EPA 9320	730120		
92781912010	**YAT-YGWA-5D**	EPA 9320	730120		
92781912011	**YAT-YGWA-20S**	EPA 9320	730120		
92781912012	**YAT-UGRD-EB-2**	EPA 9320	730120		
92781912013	**YAT-UGRD-FB-2**	EPA 9320	730120		
92781912014	**YAT-YGWA-30I**	EPA 9320	730120		
92781912015	**YAT-YGWA-14S**	EPA 9320	730120		
92781912016	**YAT-YGWA-2I**	EPA 9320	730120		
92781912017	**YAT-YGWA-47**	EPA 9320	730120		
92781912018	**YAT-UGRD-FB-1**	EPA 9320	730120		
92781912019	**YAT-YGWA-1I**	EPA 9320	730407		
92781912020	**YAT-YGWA-1D**	EPA 9320	730407		
92781912021	**YAT-YGWA-3I**	EPA 9320	730407		
92781912022	**YAT-YGWA-3D**	EPA 9320	730407		
92781912023	**YAT-UGRD-EB-1**	EPA 9320	730407		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92781912

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92781912024	**YAT-UGRD-FD-1**	EPA 9320	730407		
92781912001	**YAT-YGWA-17S**	Total Radium Calculation	734606		
92781912002	**YAT-YGWA-18S**	Total Radium Calculation	734606		
92781912003	**YAT-YGWA-18I**	Total Radium Calculation	734606		
92781912004	**YAT-YGWA-39**	Total Radium Calculation	734606		
92781912005	**YAT-YGWA-40**	Total Radium Calculation	734606		
92781912006	**YAT-UGRD-FD-2**	Total Radium Calculation	734606		
92781912007	**YAT-YGWA-21I**	Total Radium Calculation	734606		
92781912008	**YAT-YGWA-4I**	Total Radium Calculation	734606		
92781912009	**YAT-YGWA-5I**	Total Radium Calculation	734606		
92781912010	**YAT-YGWA-5D**	Total Radium Calculation	734606		
92781912011	**YAT-YGWA-20S**	Total Radium Calculation	734606		
92781912012	**YAT-UGRD-EB-2**	Total Radium Calculation	734606		
92781912013	**YAT-UGRD-FB-2**	Total Radium Calculation	734606		
92781912014	**YAT-YGWA-30I**	Total Radium Calculation	734606		
92781912015	**YAT-YGWA-14S**	Total Radium Calculation	734606		
92781912016	**YAT-YGWA-2I**	Total Radium Calculation	734606		
92781912017	**YAT-YGWA-47**	Total Radium Calculation	734606		
92781912018	**YAT-UGRD-FB-1**	Total Radium Calculation	734606		
92781912019	**YAT-YGWA-1I**	Total Radium Calculation	734608		
92781912020	**YAT-YGWA-1D**	Total Radium Calculation	734608		
92781912021	**YAT-YGWA-3I**	Total Radium Calculation	734608		
92781912022	**YAT-YGWA-3D**	Total Radium Calculation	734608		
92781912023	**YAT-UGRD-EB-1**	Total Radium Calculation	734608		
92781912024	**YAT-UGRD-FD-1**	Total Radium Calculation	734608		

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

Effective Date: 05/24/2024

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

WO# : 92781912

92781912

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

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

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

Date/Initials Person Examining Contents: 2/26/25 (22)

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

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

Thermometer: ☑ IR Gun ID: 083

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 1.1 Correction Factor: Add/Subtract (°C) +0.1

Cooler Temp Corrected (°C): 1.2

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

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

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

WO#: 92781912

PM: BV Due Date: 03/19/25

CLIENT: 92-GP-Yates

*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 #

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

Client_____ Profile/EZ (Circle one)_____ Notes_____

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)	BP1N	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved Vials (N/A)
CC																														
1		2	1		2		2																							
2		2	1		2		2																							
3		2	1		2		2																							
4		2	1		2		2																							
5		2	1		2		2																							
6		2	1		2		2																							
7		2	1		2		2																							
8		2	1		2		2																							
9		2	1		2		2																							
10		2	1		2		2																							
11		2	1		2		2																							
12		2	1		2		2																							

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.

WO#: 92781912

PM: BV Due Date: 03/19/25

CLIENT: 92-GP-Yates

*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 #

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

Client_____ Profile/FZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)		BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A ~ lab)	SP2T-250 mL Sterile Plastic (N/A ~ lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																													
1		2	1		2		2																						
2		2	1		2		2																						
3		2	1		2		2																						
4		2	1		2		2																						
5		2	1		2		2																						
6		2	1		2		2																						
7		2	1		2		2																						
8		2	1		2		2																						
9		2	1		2		2																						
10		2	1		2		2																						
11		2	1		2		2																						
12		2	1		2		2																						

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.

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

92781912

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2025S1	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT Pooled Upgradient	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____
Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [✓] No
Analysis:

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment
	Specify Container Size **							3	3	2	1	3			
	Identify Container Preservative Type***							2	1	1	2	1			
	Analysis Requested														
YAT-YGWA-47	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-21I	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-4I	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-5I	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-5D	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-17S	WG	G	2/25/25	1305				7		X	X	X	X	X	See Remarks 001
YAT-YGWA-18S	WG	G	2/25/25	1012				7		X	X	X	X	X	See Remarks 002
YAT-YGWA-18I	WG	G	2/25/25	1210				7		X	X	X	X	X	See Remarks 003
YAT-YGWA-20S	WG	G						7		X	X	X	X	X	See Remarks
															See Remarks

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample.

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) Jessica Ware
Signature: (Arcadis) Jessica Ware

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Jessica Ware / Arcadis	2/26/25 0830	[signature] / ARCADIS	2/26/25 0830
[signature] / ARCADIS	2/26/25 1143	Ryan Williams / Pace	2/26/25 1143
Ryan Williams / Pace	2/26/25 1355	[signature]	2/26/25 1355

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier
[ ] FedEx [ ] UPS [ ] Other

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

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LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202551	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT Pooled Upgradient	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [✓] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment	Preservation non-conformance identified for sample
YAT-YGWA-30I	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWA-14S	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWA-39	WG	G	2/25/25	1522	—	—		7		X	X	X	X	X	See Remarks WG	
YAT-YGWA-40	WG	G	2/25/25	1421	—	—		7		X	X	X	X	X	See Remarks DUP	
YAT-YGWA-1I	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWA-1D	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWA-2I	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWA-3I	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWA-3D	WG	G						7		X	X	X	X	X	See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - Jessica Ware
Signature: (Arcadis) - Jessica Ware

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Jessica Ware / Arcadis	2/26/25 0830	[illegible] / ARCADIS	2/26/25 0830
[illegible] / ARCADIS	2/26/25 1143	Ryan Williams / Pace	2/26/25 1143
Ryan Williams / Pace	2/26/25 1355	[illegible]	2/26/25 1355
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

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Pace® Location Requested (City/State): Pace Analytical Charlotte, 9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

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LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202551	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [✓] No

Analysis:

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non conformance identified for sample.

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment
YAT-UGRD-EB-1	WG	G						7		X	X	X	X	X	See Remarks
YAT-UGRD-FB-1	WG	G						7		X	X	X	X	X	See Remarks
YAT-UGRD-EB-2	WG	G						7		X	X	X	X	X	See Remarks
YAT-UGRD-FB-2	WG	G						7		X	X	X	X	X	See Remarks
YAT-UGRD-FD-1	WG	G						7		X	X	X	X	X	See Remarks
YAT-UGRD-FD-2	WG	G	2/25/25	—				7		X	X	X	X	X	See Remarks 006

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) Jessica Ware
Signature: (Arcadis)

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Jessica Ware / Arcadis	2/26/25 0830	ARCADIS	2/26/25 0830
ARCADIS	2/26/25 1143	Ryan Williams / Pace	2/26/25 1143
Ryan Williams / Pace	2/26/25 1355	Charles Hanks	2/26/25 1355

Tracking Number:

Delivered by: [ ] In- Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other

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Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

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		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2025S1	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT Pooled Upgradient	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected:	[ ] AK [ ] PT [ ] MT [ ] CT [X] ET	County / State origin of sample(s):	Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____
Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3
**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

Identify Container Preservative Type***: 2 1 1 2 1
*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Analysis Requested

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment
YAT-YGWA-47	WG	G			—	—		7		X	X	X	X	X	See Remarks
YAT-YGWA-21I	WG	G	2/25/25	1415	—	—		7		X	X	X	X	X	See Remarks 07
YAT-YGWA-4I	WG	G	2/25/25	0948	—	—		7		X	X	X	X	X	See Remarks 08
YAT-YGWA-5I	WG	G	2/25/25	1057	—	—		7		X	X	X	X	X	See Remarks 09
YAT-YGWA-5D	WG	G	2/25/25	1156	—	—		7		X	X	X	X	X	See Remarks 010
YAT-YGWA-17S	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-18S	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-18I	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-20S	WG	G	2/25/25	1548	—	—		7		X	X	X	X	X	See Remarks 011
															See Remarks

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:
Preservation non-conformance identified for sample.

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) KIM LARSZYNSKI
Signature: (Arcadis)

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
ARCADIS	2/26/25 1143	Lynn Williams / Pace	2/26/25 1143
Lynn Williams / Pace	2/26/25 1355		2/26/25 1355

Tracking Number:

Delivered by: [ ] In- Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other

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Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

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Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2025S1	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPCB2474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [✓] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size: ** — 3 | 3 | 2 | 1 | 3

Identify Container Preservative Type*** — 2 | 1 | 1 | 2 | 1

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers: Plastic	Number & Type of Containers: Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment
YAT-UGRD-EB-1	WG	G						7		X	X	X	X	X	See Remarks
YAT-UGRD-FB-1	WG	G						7		X	X	X	X	X	See Remarks
YAT-UGRD-EB-2	WG	G	2/25/25	1610	—	—		7		X	X	X	X	X	See Remarks 012
YAT-UGRD-FB-2	WG	G	2/25/25	1206	—	—		7		X	X	X	X	X	See Remarks 013
YAT-UGRD-FD-1	WG	G						7		X	X	X	X	X	See Remarks
YAT-UGRD-FD-2	WG	G						7		X	X	X	X	X	See Remarks

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample.

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B, 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - Kim Wapszynski
Signature: (Arcadis) -

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
ARCADIS	2/26/25 1143	Ryan Williams / Pace	2/26/25 1143
Ryan Williams / Pace	2/26/25 1355		2/26/25 1355

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

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Pace® Location Requested (City/State): Pace Analytical Charlotte, 9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

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LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2025S1	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET		County / State origin of sample(s):	Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment
Specify Container Size **										3	3	2	1	3	
Identify Container Preservative Type***										2	1	1	2	1	
Analysis Requested															
YAT-YGWA-30I	WG	G	2/25/25	1455				7		X	X	X	X	X	See Remarks 014
YAT-YGWA-14S	WG	G	2/25/25	1300				7		X	X	X	X	X	See Remarks 015
YAT-YGWA-39	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-40	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-1I	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-1D	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-2I	WG	G	2/25/25	1125				7		X	X	X	X	X	See Remarks 016
YAT-YGWA-3I	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-3D	WG	G						7		X	X	X	X	X	See Remarks

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non conformance identified for sample.

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Ti; 7040A: Hg.
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By: Printed Name: (Arcadis) - Perry Studebaker
Signature: (Arcadis) -

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Perry Studebaker / Arcadis	2/26/25 0830	Arcadis	2/26/25 0830
Arcadis	2/26/25 1143	Ryan Williams / Pace	2/26/25 1143
		Charles Hart	2/26/25 1354

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

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Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

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Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205 346 3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202551	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT Pooled Upgradient	Purchase Order # (if applicable):	GPCB2474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [✓] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment
								Specify Container Size:**		3	3	2	1	3	
								Identify Container Preservative Type***		2	1	1	2	1	
								Analysis Requested							
YAT-YGWA-47	WG	G	2/25/25	1655				7		X	X	X	X	X	See Remarks 017
YAT-YGWA-21I	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-4I	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-5I	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-5D	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-17S	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-18S	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-18I	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-20S	WG	G						7		X	X	X	X	X	See Remarks
															See Remarks

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non conformance identified for sample.

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - Perry Studebaker
Signature: (Arcadis) -

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Perry Studebaker / Arcadis	2/26/25 0830	[signature] / ARCADIS	2/26/25 0830
[signature] / ARCADIS	2/26/25 1143	Ryan Williams / Pace	2/26/25 1143
Ryan Williams / Pace	2/26/25 1355	[signature]	2/26/25 1355

Tracking Number:

Delivered by: [ ] In- Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other

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Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

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Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202551	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____
Date Results Requested:

DW PWSID # or WW Permit # as applicable:
Field Filtered (if applicable): [ ] Yes [✓] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3
Identify Container Preservative Type***: 2 1 1 2 1
Analysis Requested

** Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment	Preservation non-conformance identified for sample
YAT-UGRD-EB-1	WG	G						7		X	X	X	X	X	See Remarks	
YAT-UGRD-FB-1	WG	G	2/25/25	1535				7		X	X	X	X	X	See Remarks QB	
YAT-UGRD-EB-2	WG	G						7		X	X	X	X	X	See Remarks	
YAT-UGRD-FB-2	WG	G						7		X	X	X	X	X	See Remarks	
YAT-UGRD-FD-1	WG	G						7		X	X	X	X	X	See Remarks	
YAT-UGRD-FD-2	WG	G						7		X	X	X	X	X	See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App iV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - Perry Studebaker
Signature: (Arcadis) -

Additional instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Perry Studebaker / Arcadis	2/26/25 0830	[signature] / ARCADIS	2/26/25 0830
[signature] / ARCADIS	2/26/25 1143	Ryan Willis / Pace	2/26/25 1143
Ryan Willis / Pace	2/26/25 1355	[signature] 2/26/25	1355

Tracking Number:

Delivered by: [ ] In- Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

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Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

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Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202551	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT Pooled Upgradient	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected:	[ ] AK [ ] PT [ ] MT [ ] CT [X] ET	County / State origin of sample(s):	Georgia
Data Deliverables:	[X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other_____	Regulatory Program (DW, RCRA, etc.) as applicable:	
		Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____ Date Results Requested:	DW PWSID # or WW Permit # as applicable: Field Filtered (if applicable): [ ] Yes [X] No Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment
								Specify Container Size **		3	3	2	1	3	
								Identify Container Preservative Type***		2	1	1	2	1	
								Analysis Requested							
YAT-YGWA-30I	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-14S	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-39	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-40	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWA-1I	WG	G	02/25/25	1640	—	—		7		X	X	X	X	X	See Remarks 09
YAT-YGWA-1D	WG	G	02/25/25	1425	—	—		7		X	X	X	X	X	See Remarks 020
YAT-YGWA-2I	WG	G		↑				7		X	X	X	X	X	See Remarks
YAT-YGWA-3I	WG	G	02/25/25	1210	—	—		7		X	X	X	X	X	See Remarks 021
YAT-YGWA-3D	WG	G	02/25/25	1030	—	—		7		X	X	X	X	X	See Remarks 022

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample:

**Container Size- (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - David Beauty
Signature: (Arcadis) - David Beauty

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
	02/26/25 0815	ARCADIS	2/26/25 0815
ARCADIS	2/26/25 1143	Ryan Williams / Pace	2/26/25 1143
Ryan Williams / Pace	2/26/25 1355		2/26/25 1355

Tracking Number:

Delivered by: [ ] In- Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace® Location Requested (City/State): Pace Analytical Charlotte, 9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202551	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

**Containter Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCL (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)					Sample Comment
Specify Container Size **										3	3	2	1	3					
Identify Container Preservative Type***										2	1	1	2	1					
Analysis Requested																			
YAT-UGRD-EB-1	WG	G	02/25/25	1730	—	—		7		X	X	X	X	X					See Remarks 523
YAT-UGRD-FB-1	WG	G						7		X	X	X	X	X					See Remarks
YAT-UGRD-EB-2	WG	G						7		X	X	X	X	X					See Remarks
YAT-UGRD-FB-2	WG	G						7		X	X	X	X	X					See Remarks
YAT-UGRD-FD-1	WG	G	02/25/25	—	—	—		7		X	X	X	X	X					See Remarks 524
YAT-UGRD-FD-2	WG	G						7		X	X	X	X	X					See Remarks

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample.

Customer Remarks / Special Conditions / Possible Hazards:

App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - David Prouty
Signature: (Arcadis) - David Prouty

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
David Prouty	02/26/25 0815	Arcadis	2/26/25 0815
Arcadis	2/26/25 1143	Ryan Williams / Pace	2/26/25 1143
Ryan Williams / Pace	2/26/25 1355	Charles Hunt	2/26/25 1355
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

Page: 10 of 10

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Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test:	Ra-228
Analyst:	VAL
Date:	3/6/2025
Worklist:	83863
Matrix:	WT

Method Blank Assessment	
MB Sample ID	3553852
MB concentration:	0.612
M/B 2 Sigma CSU:	0.395
MB MDC:	0.745
MB Numerical Performance Indicator:	3.04
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS83863	**LCSD83863**
Count Date:	3/19/2025	3/19/2025
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	33.193	33.193
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.818	0.817
Target Conc. (pCi/L, g, F):	4.059	4.064
Uncertainty (Calculated):	0.199	0.199
Result (pCi/L, g, F):	3.620	4.765
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.970	1.179
Numerical Performance Indicator:	-0.87	1.15
Percent Recovery:	89.18%	117.25%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

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:		

Duplicate Sample Assessment		
Sample I.D.:	LCS83863	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD83863	
Sample Result (pCi/L, g, F):	3.620	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.970	
Sample Duplicate Result (pCi/L, g, F):	4.765	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.179	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-1.470	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	27.20%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

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:		
(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-prepped.~~

MB passes vs ~~recovery~~ activity < MDC

VAL 3/20/25

VAL
3/20/25

Quality Control Sample Performance Assessment

Pace Analytical™
www.pacelabs.com

Test:	Ra-228
Analyst:	VAL
Date:	3/7/2025
Worklist:	83888
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3555191
MB concentration:	0.660
M/B 2 Sigma CSU:	0.368
MB MDC:	0.662
MB Numerical Performance Indicator:	3.52
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS83888	LCSD83888
Count Date:	3/20/2025	3/20/2025
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	33.182	33.182
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.816	0.820
Target Conc. (pCi/L, g, F):	4.068	4.046
Uncertainty (Calculated):	0.199	0.198
Result (pCi/L, g, F):	3.452	3.288
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.832	0.806
Numerical Performance Indicator:	-1.41	-1.79
Percent Recovery:	84.85%	81.26%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

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:		

Duplicate Sample Assessment		
Sample I.D.:	LCS83888	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD83888	
Sample Result (pCi/L, g, F):	3.452	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.832	
Sample Duplicate Result (pCi/L, g, F):	3.288	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.806	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.278	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	4.33%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

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:		
(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-prepped.~~

MB activity < MDC, pass

VAL 3/21/25

VAL 3/21/25

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	3/9/2025
Worklist:	83862
Matrix:	W

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3553848
MB concentration:	0.041
M/B 2 Sigma CSU:	0.152
MB MDC:	0.373
MB Numerical Performance Indicator:	0.52
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS83862	**LCSD83862**
Count Date:	3/21/2025	3/20/2025
Spike I.D.:	24-046	24-046
Decay Corrected Spike Concentration (pCi/mL):	31.833	31.833
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.510	0.508
Target Conc. (pCi/L, g, F):	6.238	6.272
Uncertainty (Calculated):	0.293	0.295
Result (pCi/L, g, F):	5.033	4.963
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.906	0.895
Numerical Performance Indicator:	-2.48	-2.73
Percent Recovery:	80.68%	79.12%
Status vs Numerical Indicator:	Warning	Warning
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

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:		

Duplicate Sample Assessment		
Sample I.D.:	LCS83862	92781920001
Duplicate Sample I.D.	LCSD83862	92781920001DUP
Sample Result (pCi/L, g, F):	5.033	0.339
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.906	0.220
Sample Duplicate Result (pCi/L, g, F):	4.963	0.352
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.895	0.182
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	0.108	-0.088
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	1.95%	3.72%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	N/A	N/A
% RPD Limit:	25%	25%

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:		
(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:

KT 3-21-25

VAM 3/21/25

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	3/10/2025
Worklist:	83889
Matrix:	W

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3555194
MB concentration:	0.062
M/B 2 Sigma CSU:	0.123
MB MDC:	0.285
MB Numerical Performance Indicator:	0.98
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS83889	LCSD83889
Count Date:	3/20/2025	3/20/2025
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.014	25.014
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.510	0.510
Target Conc. (pCi/L, g, F):	4.901	4.903
Uncertainty (Calculated):	0.230	0.230
Result (pCi/L, g, F):	5.152	5.817
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.903	1.012
Numerical Performance Indicator:	0.53	1.73
Percent Recovery:	105.12%	118.64%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

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:		

Duplicate Sample Assessment		
Sample I.D.:	LCS83889	92781912019
Duplicate Sample I.D.	LCSD83889	92781912019DUP
Sample Result (pCi/L, g, F):	5.152	0.168
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.903	0.145
Sample Duplicate Result (pCi/L, g, F):	5.817	0.100
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.012	0.110
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	-0.960	0.732
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	12.08%	50.87%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	N/A	N/A
% RPD Limit:	25%	25%

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:		
(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:

UAM 3/21/25

CT 3-21-25

Appendix C

Statistical Analysis

Appendix III Statistically Significant Increase Summary (February 2025)

Appendix III Parameter	Monitoring Wells
Boron	YGWC-23S, YGWC-38, YGWC-41, YGWC-42, YGWC-43, YGWC-50
Calcium	YGWC-36A, YGWC-38, YGWC-42, YGWC-50
Sulfate	YGWC-36A, YGWC-38, YGWC-42, YGWC-50
Total Dissolved Solids	YGWC-36A, YGWC-38, YGWC-42, YGWC-43, YGWC-50

GROUNDWATER STATS CONSULTING

August 29, 2025

Southern Company Services
Attn: Mr. Trey Singleton
3535 Colonnade Parkway
Birmingham, AL 35243

Re: Plant Yates Ash Management Area (AMA) and R6 CCR Landfill
February/March/May 2025 Statistical Analysis

Dear Mr. Singleton,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the February/March/May 2025 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 at most wells. Semi-annual sampling of the majority of 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, and YGWC-50
    - **Assessment wells:** YAMW-1, YAMW-2, YAMW-3, YAMW-4, YAMW-5, PZ-35, PZ-37, PZ-37D, PZ-51, PZ-52D, and PZ-54D

Data from downgradient wells are evaluated for Appendix III and IV constituents, as described below, when a minimum of 8 samples is available. Note that downgradient well YGWC-50 was first sampled during the August 2023 event and now has a maximum of 8 samples; therefore, this well was evaluated with interwell prediction limits for Appendix III parameters and confidence intervals for Appendix IV parameters during this analysis. Assessment wells are evaluated for Appendix IV constituents when a minimum of 4 samples is available. Assessment well PZ-54D was first sampled in June 2024 and has a maximum of 3 samples. Data from this well was plotted on time series and box plots for all constituents.

Downgradient well YGWC-24SA was installed in June 2020 as a replacement well for well YGWC-24S; however, it was abandoned and replacement well YGWC-24SB was installed in late 2022 and first sampled in February 2023. Historical data from wells YGWC-24 and YGWC-24SA were combined with data from well YGWC-24SB. Downgradient well YGWC-36A was installed in September 2020 as a replacement well for YGWC-36 to supplement existing data for each constituent. Historical data from well YGWC-36 were combined with data from well YGWC-36A. Replacement wells YGWC-24SB and YGWC-36A are evaluated in this report for Appendix III and IV constituents.

When a minimum of 8 samples has been collected from new well YGWC-24SB, the Mann-Whitney test will be used to compare newer observations from this well to historical observations from abandoned well YGWC-24SA for Appendix IV constituents and evaluate whether the populations of data are statistically different. 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 current groundwater quality, are evaluated for the Appendix IV constituents in the confidence interval comparisons to respective Groundwater Protection Standards. This evaluation was previously performed for well YGWC-36A and is discussed below.

All data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Kristina Rayner, Senior Statistician and Founder of Groundwater Stats Consulting. In 2024, Georgia Power Company completed a data audit and migration of all CCR related groundwater data to the EarthSoft EQuIS Database Management Program (EQuIS). Data were then exported from EQuIS to Groundwater Stats Consulting (GSC) for use in completing this statistical analysis. Georgia Power Company contracted an independent third-party consultant, Environmental Resources Management (ERM), to support the data audit and migration to EQuIS. Based on the results of the audit and statistical analysis results from GSC, EQuIS will now be used by Georgia Power Company and its third-party geologists and engineers for management of data imported by independent third-party laboratories and data exported by Georgia Power Company and its Consultants. The data will be used in preparation of report submittals, modeling, strategic planning, and other purposes appropriate and consistent with EQuIS's data management and reporting tools and capabilities.

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. 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. Due to elevated reporting limits (at or above the MCL or CCR-specified level) during the May 2025 sample event, the following historic reporting limits were substituted across all wells in order to maintain conservative (i.e., lower) limits from a regulatory perspective:

- Antimony: 0.003 mg/L
- Arsenic: 0.005 mg/L
- Chromium: 0.005 mg/L
- Cobalt: 0.005 mg/L
- Lead: 0.001 mg/L

- Molybdenum: 0.01 mg/L
- Selenium: 0.005 mg/L
- Thallium: 0.001 mg/L

Combined upgradient well data from all units at Plant Yates are utilized to construct statistical limits for Appendix III and IV parameters. Although upgradient well GWA-2 is no longer sampled, data from this well represent groundwater quality upgradient of the facility and are, therefore, plotted on time series and box plots and included in the construction of interwell prediction limits and upper tolerance limits.

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 was previously provided and demonstrated 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 for parametric limits. 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.

Summary of Background Update Conducted in 2024

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. When the most recent value is identified as an outlier, values are not flagged in the database at this time as the measurements 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.

Using the Tukey box plot method, several outliers were identified and both Tukey's test and visual screening confirmed values flagged from previous analyses. An exception is for one detected value of 6.3 s.u. for pH at well YGWA-47 that was previously flagged as an outlier because it was high during a single event compared to all other values at neighboring wells. However, when compared among pooled upgradient well data, this value is no longer spurious and was unflagged. Although not identified by Tukey's test due to the high percentage of non-detects, elevated concentrations for cobalt at upgradient well GWA-2 remain flagged to reduce variation in the record and maintain statistical limits that are conservative (i.e., lower) from a regulatory perspective.

When any values are flagged in the database as outliers, the measurements 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 upgradient well to identify statistically significant increasing or decreasing trends. 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 and IV parameters. However, the trends noted were relatively low in magnitude compared to average pooled upgradient concentrations. Therefore, no adjustments were made to the data sets at this time. If the observed decreasing or increasing trends persist over a longer time frame and influence resulting statistical limits, some records may need to be truncated.

Statistical Analysis of Appendix III Parameters – February/March/May 2025

All Appendix III parameters were analyzed using interwell prediction limits. Background (upgradient) well data were reassessed 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. During a previous analysis, the data were not normally distributed for TDS which resulted in a nonparametric prediction limit. Therefore, the highest value observed during the February 2024 event at upgradient well YGWA-5D was flagged as an outlier TDS in order to maintain statistical limits that are conservative from a regulatory perspective. A previously flagged value for pH at upgradient well YGWA-47 was unflagged. 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/March 2025 (Figure D). Interwell

prediction limits pool upgradient well data to establish a background limit for an individual constituent. The February/March 2025 sample from each downgradient well is compared to the background limit to determine whether initial exceedances are present. Note that the May 2025 sample event was compared to established limits for downgradient well YGWC-50.

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. Prediction limit exceedances were noted for the following Appendix III well/constituent pairs:

- Boron: YGWC-23S, YGWC-38, YGWC-41, YGWC-42, YGWC-43, and YGWC-50
- Calcium: YGWC-36A, YGWC-38, YGWC-42, and YGWC-50
- Sulfate: YGWC-36A, YGWC-42, YGWC-43, and YGWC-50
- TDS: YGWC-36A, YGWC-38, YGWC-42, YGWC-43, and YGWC-50

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 spatial variability in groundwater quality that is 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 trends

- Boron: YGWA-18S and YGWA-39 (both upgradient), and YGWC-43
- Calcium: GWA-2, YGWA-1D, YGWA-5I, YGWA-17S, YGWA-30I, and YGWA-39 (all upgradient)

- Sulfate: GWA-2, YGWA-1D, YGWA-2I, YGWA-3D, YGWA-3I, and YGWA-5I (all upgradient)
- TDS: YGWA-21I, YGWA-39 (both upgradient), and YGWC-43

Decreasing trends

- Boron: YGWA-40 (upgradient), YGWC-38, YGWC-41, and YGWC-42
- Calcium: YGWA-1I, YGWA-5D, YGWA-18S, YGWA-47 (all upgradient), YGWC-38, and YGWC-42
- Sulfate: YGWA-5D, YGWA-18I, YGWA-18S, YGWA-30I, YGWA-39, YGWA-40, YGWA-47 (all upgradient), and YGWC-42
- TDS: YGWA-47 (upgradient), YGWC-38, and YGWC-42

Statistical Analysis of Appendix IV Parameters – February/March/May 2025

For analysis of Appendix IV parameters, confidence intervals for each downgradient and assessment well/constituent were compared against corresponding Groundwater Protection Standards (GWPS). GWPS were developed as described below. Data from all 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 spatial variation in groundwater quality, the values will be re-evaluated for construction of interwell tolerance limits. A November 2021 observation for lithium at YAMW-3 was previously added to the database, but was flagged as an outlier with an "ox" flag in the database since this sample was collected prior to the well's redevelopment. Note that more recent concentrations for cobalt at upgradient well YGWA-21I have been increasing and the most recent measurement was flagged as an outlier in order to maintain statistical limits that are capable of readily detecting changes in groundwater quality. All upgradient concentrations will be re-evaluated in future analyses and if future observations are similar to this measurement, then this observation may be unflagged as an outlier. A summary of flagged outliers follows this report (Figure C).

Mann-Whitney Test

During a previous analysis, the Mann-Whitney (Wilcoxon Rank Sum) test was used to compare the median of observations sampled before October 2020 at abandoned well YGWC-36 to the median of the 8 most recent observations sampled at well YGWC-36A

for each Appendix IV parameters. When no variation was present between historical data and compliance samples, the Mann-Whitney test was not performed, which was the case for mercury and thallium. When the populations of the two groups are statistically significantly different at the 99% confidence level (such as cadmium and lithium), the historical data sampled from abandoned well YGWC-36 are truncated to only use data from well YGWC-36A. The earlier data are shown on the time series as disconnected point and in a lighter font on the data pages. A list of constituents using truncated records follows this report.

Interwell Upper Tolerance Limits

Interwell tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through February/March 2025 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 on downgradient and assessment wells for each of the Appendix IV constituents in accordance with the state requirements. Assessment wells are included when a minimum of 4 samples is available.

The Sanitas software was used to calculate 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 appropriate order statistics, depending on the sample size, 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 achievable confidence level associated with nonparametric confidence intervals is dependent upon the number samples available.

Although trend analysis for Appendix IV parameters in downgradient wells is not routinely included in data screening, records with visually apparent trends may be formally tested using the Sen's Slope/Mann-Kendall trend test at the 95% confidence level. When statistically significant trends are identified, the record may require truncation prior to construction of confidence intervals if earlier concentrations no longer represent current average conditions (USEPA Unified Guidance, 2009, Chapter 7). Note that due to a statistically significant decreasing trend for selenium at downgradient well YGWC-38 and a statistically significant increasing trend for lithium at YGWC-42 (Figure H), only concentrations since March 2021 and, subsequently, relatively stable observations were used to construct confidence intervals for these well/constituent pairs to represent the current average and current groundwater quality conditions. As mentioned above, the records for cadmium and lithium at downgradient well YGWC-36A were also evaluated with confidence intervals using only the most recent measurements. Trend tests using both the full and truncated records follow this report and a list of well/constituent pairs that use a truncated portion of their record follows this letter.

Only when the entire confidence interval is above a GWPS is the 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 (Figure I). Exceedances were noted for the following well/constituent pairs:

- Cadmium: YGWC-50
- Lithium: YGWC-42 and YAMW-3
- Selenium: PZ-37

Trend Test Evaluation – Appendix IV

Assessment monitoring well/constituent pairs identified with confidence interval exceedances are further evaluated using the Sen's Slope/Mann-Kendall trend test using 95% confidence (Figure J). Although the trend tests for Assessment monitoring pairs were previously evaluated using 99% confidence, the 95% confidence level more rapidly identifies statistically significant trends. Additionally, the 95% confidence level is recommended in cases with limited sample sizes and, particularly, for new assessment wells. 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 wells, it is an indication of variability in groundwater quality unrelated to practices at the site. Significant trends were identified for the following well/constituent pairs:

Increasing trends

- Lithium: YGWA-3D, YGWA-3I, YGWA-39 (all upgradient), and YGWC-42
- Selenium: YGWA-17S (upgradient)

Decreasing trends

- Lithium: YGWA-1D, YGWA-18I, YGWA-18S, and YGWA-47 (all upgradient)
- Selenium: PZ-37

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

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Summary Tables

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100% Non-Detects: Appendix IV Downgradient & Assessment

Analysis Run 7/7/2025 2:56 PM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AMA-R6

Antimony (mg/L)
YAMW-2, YAMW-3, PZ-51, PZ-55

Arsenic (mg/L)
YAMW-2, PZ-55

Beryllium (mg/L)
YAMW-4, PZ-37D, PZ-55

Cadmium (mg/L)
YGWC-24SB, YGWC-43, YAMW-4, PZ-37D

Chromium (mg/L)
PZ-37D, PZ-51, PZ-55

Cobalt (mg/L)
YGWC-38, YGWC-23S, YGWC-24SB, PZ-37D

Fluoride (mg/L)
YAMW-1

Lead (mg/L)
YAMW-3, PZ-55

Lithium (mg/L)
YAMW-2

Mercury (mg/L)
YGWC-36A, YGWC-50, YAMW-2, YAMW-4, YAMW-5, PZ-35, PZ-37D, PZ-51, PZ-52D, PZ-54D, PZ-55

Molybdenum (mg/L)
YGWC-38, YGWC-24SB, YGWC-50, YAMW-5, PZ-51

Selenium (mg/L)
YGWC-24SB, YGWC-43, PZ-37D

Thallium (mg/L)
YGWC-38, YGWC-41, YGWC-23S, YGWC-24SB, YGWC-42, YGWC-43, YAMW-1, YAMW-2, YAMW-3, YAMW-4, YAMW-5, PZ-35, PZ-37D, PZ-37, PZ-51, PZ-52D, PZ-55

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Date Ranges

Date: 5/16/2025 11:08 AM

Plant Yates Client: Southern Company Data: Yates AMA-R6

Cadmium (mg/L)
- YGWC-36A overall:10/7/2020-2/26/2025

Lithium (mg/L)
- YGWC-36A overall:10/7/2020-2/26/2025
- YGWC-42 overall:3/4/2021-2/26/2025

Selenium (mg/L)
- YGWC-38 overall:3/4/2021-2/26/2025

Appendix III Interwell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Yates AMA-R6 Printed 7/7/2025, 2:47 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	YGWC-38	0.16	n/a	2/26/2025	3.1	Yes	443	n/a	n/a	51.92	n/a	n/a	0.00004916	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-41	0.16	n/a	2/26/2025	3.6	Yes	443	n/a	n/a	51.92	n/a	n/a	0.00004916	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-23S	0.16	n/a	2/27/2025	1.8	Yes	443	n/a	n/a	51.92	n/a	n/a	0.00004916	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-42	0.16	n/a	2/26/2025	12.9	Yes	443	n/a	n/a	51.92	n/a	n/a	0.00004916	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-43	0.16	n/a	2/27/2025	3.8	Yes	443	n/a	n/a	51.92	n/a	n/a	0.00004916	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-50	0.16	n/a	5/21/2025	21.1	Yes	443	n/a	n/a	51.92	n/a	n/a	0.00004916	NP Inter (NDs) 1 of 2
Calcium (mg/L)	YGWC-38	37	n/a	2/26/2025	39.2	Yes	449	n/a	n/a	0.6682	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-36A	37	n/a	2/26/2025	47.4	Yes	449	n/a	n/a	0.6682	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-42	37	n/a	2/26/2025	70.4	Yes	449	n/a	n/a	0.6682	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-50	37	n/a	5/21/2025	276	Yes	449	n/a	n/a	0.6682	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-36A	160	n/a	2/26/2025	199	Yes	449	n/a	n/a	4.454	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-42	160	n/a	2/26/2025	432	Yes	449	n/a	n/a	4.454	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-43	160	n/a	2/27/2025	187	Yes	449	n/a	n/a	4.454	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-50	160	n/a	5/21/2025	1220	Yes	449	n/a	n/a	4.454	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
TDS (mg/L)	YGWC-38	319	n/a	2/26/2025	347	Yes	442	n/a	n/a	0.4525	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
TDS (mg/L)	YGWC-36A	319	n/a	2/26/2025	421	Yes	442	n/a	n/a	0.4525	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
TDS (mg/L)	YGWC-42	319	n/a	2/26/2025	849	Yes	442	n/a	n/a	0.4525	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
TDS (mg/L)	YGWC-43	319	n/a	2/27/2025	415	Yes	442	n/a	n/a	0.4525	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
TDS (mg/L)	YGWC-50	319	n/a	5/21/2025	2090	Yes	442	n/a	n/a	0.4525	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Yates AMA-R6 Printed 7/7/2025, 2:47 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**YGWC-38**	**0.16**	**n/a**	**2/26/2025**	**3.1**	**Yes**	**443**	**n/a**	**n/a**	**51.92**	**n/a**	**n/a**	**0.00004916**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-41**	**0.16**	**n/a**	**2/26/2025**	**3.6**	**Yes**	**443**	**n/a**	**n/a**	**51.92**	**n/a**	**n/a**	**0.00004916**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-23S**	**0.16**	**n/a**	**2/27/2025**	**1.8**	**Yes**	**443**	**n/a**	**n/a**	**51.92**	**n/a**	**n/a**	**0.00004916**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	YGWC-24SB	0.16	n/a	3/17/2025	0.04ND	No	443	n/a	n/a	51.92	n/a	n/a	0.00004916	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-36A	0.16	n/a	2/26/2025	0.23J	No	443	n/a	n/a	51.92	n/a	n/a	0.00004916	NP Inter (NDs) 1 of 2
Boron (mg/L)	**YGWC-42**	**0.16**	**n/a**	**2/26/2025**	**12.9**	**Yes**	**443**	**n/a**	**n/a**	**51.92**	**n/a**	**n/a**	**0.00004916**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-43**	**0.16**	**n/a**	**2/27/2025**	**3.8**	**Yes**	**443**	**n/a**	**n/a**	**51.92**	**n/a**	**n/a**	**0.00004916**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	YGWC-49	0.16	n/a	2/26/2025	0.0087J	No	443	n/a	n/a	51.92	n/a	n/a	0.00004916	NP Inter (NDs) 1 of 2
Boron (mg/L)	**YGWC-50**	**0.16**	**n/a**	**5/21/2025**	**21.1**	**Yes**	**443**	**n/a**	**n/a**	**51.92**	**n/a**	**n/a**	**0.00004916**	**NP Inter (NDs) 1 of 2**
Calcium (mg/L)	**YGWC-38**	**37**	**n/a**	**2/26/2025**	**39.2**	**Yes**	**449**	**n/a**	**n/a**	**0.6682**	**n/a**	**n/a**	**0.00004916**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	YGWC-41	37	n/a	2/26/2025	14.2	No	449	n/a	n/a	0.6682	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-23S	37	n/a	2/27/2025	16.2	No	449	n/a	n/a	0.6682	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-24SB	37	n/a	3/17/2025	2.9	No	449	n/a	n/a	0.6682	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
Calcium (mg/L)	**YGWC-36A**	**37**	**n/a**	**2/26/2025**	**47.4**	**Yes**	**449**	**n/a**	**n/a**	**0.6682**	**n/a**	**n/a**	**0.00004916**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**YGWC-42**	**37**	**n/a**	**2/26/2025**	**70.4**	**Yes**	**449**	**n/a**	**n/a**	**0.6682**	**n/a**	**n/a**	**0.00004916**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	YGWC-43	37	n/a	2/27/2025	17.1	No	449	n/a	n/a	0.6682	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-49	37	n/a	2/26/2025	10.9	No	449	n/a	n/a	0.6682	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
Calcium (mg/L)	**YGWC-50**	**37**	**n/a**	**5/21/2025**	**276**	**Yes**	**449**	**n/a**	**n/a**	**0.6682**	**n/a**	**n/a**	**0.00004916**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	YGWC-38	12.7	n/a	2/26/2025	3.9	No	448	n/a	n/a	0	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-41	12.7	n/a	2/26/2025	3.6	No	448	n/a	n/a	0	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-23S	12.7	n/a	2/27/2025	2.8	No	448	n/a	n/a	0	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-24SB	12.7	n/a	3/17/2025	8.6	No	448	n/a	n/a	0	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-36A	12.7	n/a	2/26/2025	4.5	No	448	n/a	n/a	0	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-42	12.7	n/a	2/26/2025	2.9	No	448	n/a	n/a	0	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-43	12.7	n/a	2/27/2025	2.6	No	448	n/a	n/a	0	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-49	12.7	n/a	2/26/2025	3.7	No	448	n/a	n/a	0	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-50	12.7	n/a	5/21/2025	10.6	No	448	n/a	n/a	0	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
Fluoride (mg/L)	YGWC-38	1.1	n/a	2/26/2025	0.1ND	No	518	n/a	n/a	54.25	n/a	n/a	0.00004916	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-41	1.1	n/a	2/26/2025	0.1ND	No	518	n/a	n/a	54.25	n/a	n/a	0.00004916	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-23S	1.1	n/a	2/27/2025	0.1ND	No	518	n/a	n/a	54.25	n/a	n/a	0.00004916	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-24SB	1.1	n/a	3/17/2025	0.1ND	No	518	n/a	n/a	54.25	n/a	n/a	0.00004916	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-36A	1.1	n/a	2/26/2025	0.1ND	No	518	n/a	n/a	54.25	n/a	n/a	0.00004916	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-42	1.1	n/a	2/26/2025	0.1ND	No	518	n/a	n/a	54.25	n/a	n/a	0.00004916	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-43	1.1	n/a	2/27/2025	0.1ND	No	518	n/a	n/a	54.25	n/a	n/a	0.00004916	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-49	1.1	n/a	2/26/2025	0.1ND	No	518	n/a	n/a	54.25	n/a	n/a	0.00004916	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-50	1.1	n/a	5/21/2025	0.07J	No	518	n/a	n/a	54.25	n/a	n/a	0.00004916	NP Inter (NDs) 1 of 2
pH, Field (SU)	YGWC-38	8.39	4.4	2/26/2025	5.08	No	527	n/a	n/a	0	n/a	n/a	0.00009831	NP Inter (normality) 1 of 2
pH, Field (SU)	YGWC-41	8.39	4.4	2/26/2025	4.77	No	527	n/a	n/a	0	n/a	n/a	0.00009831	NP Inter (normality) 1 of 2
pH, Field (SU)	YGWC-23S	8.39	4.4	2/27/2025	5.5	No	527	n/a	n/a	0	n/a	n/a	0.00009831	NP Inter (normality) 1 of 2
pH, Field (SU)	YGWC-24SB	8.39	4.4	3/17/2025	5.65	No	527	n/a	n/a	0	n/a	n/a	0.00009831	NP Inter (normality) 1 of 2
pH, Field (SU)	YGWC-36A	8.39	4.4	2/26/2025	5.13	No	527	n/a	n/a	0	n/a	n/a	0.00009831	NP Inter (normality) 1 of 2
pH, Field (SU)	YGWC-42	8.39	4.4	2/26/2025	5.42	No	527	n/a	n/a	0	n/a	n/a	0.00009831	NP Inter (normality) 1 of 2
pH, Field (SU)	YGWC-43	8.39	4.4	2/27/2025	5.65	No	527	n/a	n/a	0	n/a	n/a	0.00009831	NP Inter (normality) 1 of 2
pH, Field (SU)	YGWC-49	8.39	4.4	2/26/2025	5.75	No	527	n/a	n/a	0	n/a	n/a	0.00009831	NP Inter (normality) 1 of 2
pH, Field (SU)	YGWC-50	8.39	4.4	2/26/2025	5	No	527	n/a	n/a	0	n/a	n/a	0.00009831	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-38	160	n/a	2/26/2025	159	No	449	n/a	n/a	4.454	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-41	160	n/a	2/26/2025	96.4	No	449	n/a	n/a	4.454	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-23S	160	n/a	2/27/2025	92.2	No	449	n/a	n/a	4.454	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-24SB	160	n/a	3/17/2025	0.5ND	No	449	n/a	n/a	4.454	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**YGWC-36A**	**160**	**n/a**	**2/26/2025**	**199**	**Yes**	**449**	**n/a**	**n/a**	**4.454**	**n/a**	**n/a**	**0.00004916**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**YGWC-42**	**160**	**n/a**	**2/26/2025**	**432**	**Yes**	**449**	**n/a**	**n/a**	**4.454**	**n/a**	**n/a**	**0.00004916**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**YGWC-43**	**160**	**n/a**	**2/27/2025**	**187**	**Yes**	**449**	**n/a**	**n/a**	**4.454**	**n/a**	**n/a**	**0.00004916**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	YGWC-49	160	n/a	2/26/2025	56.8	No	449	n/a	n/a	4.454	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**YGWC-50**	**160**	**n/a**	**5/21/2025**	**1220**	**Yes**	**449**	**n/a**	**n/a**	**4.454**	**n/a**	**n/a**	**0.00004916**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	**YGWC-38**	**319**	**n/a**	**2/26/2025**	**347**	**Yes**	**442**	**n/a**	**n/a**	**0.4525**	**n/a**	**n/a**	**0.00004916**	**NP Inter (normality) 1 of 2**

Appendix III Interwell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Yates AMA-R6 Printed 7/7/2025, 2:47 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
TDS (mg/L)	YGWC-41	319	n/a	2/26/2025	215	No	442	n/a	n/a	0.4525	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
TDS (mg/L)	YGWC-23S	319	n/a	2/27/2025	218	No	442	n/a	n/a	0.4525	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
TDS (mg/L)	YGWC-24SB	319	n/a	3/17/2025	70	No	442	n/a	n/a	0.4525	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
TDS (mg/L)	**YGWC-36A**	**319**	**n/a**	**2/26/2025**	**421**	**Yes**	**442**	**n/a**	**n/a**	**0.4525**	**n/a**	**n/a**	**0.00004916**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	**YGWC-42**	**319**	**n/a**	**2/26/2025**	**849**	**Yes**	**442**	**n/a**	**n/a**	**0.4525**	**n/a**	**n/a**	**0.00004916**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	**YGWC-43**	**319**	**n/a**	**2/27/2025**	**415**	**Yes**	**442**	**n/a**	**n/a**	**0.4525**	**n/a**	**n/a**	**0.00004916**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	YGWC-49	319	n/a	2/26/2025	150	No	442	n/a	n/a	0.4525	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
TDS (mg/L)	**YGWC-50**	**319**	**n/a**	**5/21/2025**	**2090**	**Yes**	**442**	**n/a**	**n/a**	**0.4525**	**n/a**	**n/a**	**0.00004916**	**NP Inter (normality) 1 of 2**

Appendix III Trend Tests - Significant Results

Plant Yates Client: Southern Company Data: Yates AMA-R6 Printed 7/7/2025, 2:54 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	YGWA-18S (bg)	0.001383	106	105	Yes	24	29.17	n/a	0.01	NP
Boron (mg/L)	YGWA-39 (bg)	0.01699	128	87	Yes	21	4.762	n/a	0.01	NP
Boron (mg/L)	YGWA-40 (bg)	-0.01069	-141	-87	Yes	21	0	n/a	0.01	NP
Boron (mg/L)	YGWC-38	-2.835	-187	-87	Yes	21	0	n/a	0.01	NP
Boron (mg/L)	YGWC-41	-1.642	-151	-87	Yes	21	0	n/a	0.01	NP
Boron (mg/L)	YGWC-42	-1.239	-140	-87	Yes	21	0	n/a	0.01	NP
Boron (mg/L)	YGWC-43	0.3609	135	87	Yes	21	0	n/a	0.01	NP
Calcium (mg/L)	GWA-2 (bg)	2.258	92	81	Yes	20	5	n/a	0.01	NP
Calcium (mg/L)	YGWA-1D (bg)	0.5297	156	105	Yes	24	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-1I (bg)	-0.07121	-145	-105	Yes	24	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-5D (bg)	-0.954	-118	-111	Yes	25	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-5I (bg)	0.07137	183	111	Yes	25	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-17S (bg)	0.1399	224	111	Yes	25	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-18S (bg)	-0.05985	-185	-105	Yes	24	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-30I (bg)	0.02843	114	105	Yes	24	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-39 (bg)	2.416	139	87	Yes	21	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-47 (bg)	-0.7627	-140	-87	Yes	21	4.762	n/a	0.01	NP
Calcium (mg/L)	YGWC-38	-23.52	-196	-87	Yes	21	0	n/a	0.01	NP
Calcium (mg/L)	YGWC-42	-9.638	-160	-87	Yes	21	0	n/a	0.01	NP
Sulfate (mg/L)	GWA-2 (bg)	9.755	89	81	Yes	20	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-1D (bg)	0.8411	210	105	Yes	24	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-2I (bg)	1.308	141	105	Yes	24	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3D (bg)	0.2228	127	105	Yes	24	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3I (bg)	0.6848	128	105	Yes	24	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5D (bg)	-2.029	-218	-111	Yes	25	4	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5I (bg)	0.07442	179	111	Yes	25	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18I (bg)	-0.08662	-107	-105	Yes	24	16.67	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18S (bg)	-0.1227	-171	-105	Yes	24	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-30I (bg)	-0.0618	-109	-105	Yes	24	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-39 (bg)	-2.355	-162	-87	Yes	21	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-40 (bg)	-5.328	-161	-87	Yes	21	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-47 (bg)	-9.679	-165	-87	Yes	21	0	n/a	0.01	NP
Sulfate (mg/L)	YGWC-42	-82.83	-170	-87	Yes	21	0	n/a	0.01	NP
TDS (mg/L)	YGWA-21I (bg)	8.192	112	105	Yes	24	0	n/a	0.01	NP
TDS (mg/L)	YGWA-39 (bg)	23.65	120	87	Yes	21	0	n/a	0.01	NP
TDS (mg/L)	YGWA-47 (bg)	-9.065	-118	-87	Yes	21	0	n/a	0.01	NP
TDS (mg/L)	YGWC-38	-157.7	-172	-87	Yes	21	0	n/a	0.01	NP
TDS (mg/L)	YGWC-42	-104.1	-158	-87	Yes	21	0	n/a	0.01	NP
TDS (mg/L)	YGWC-43	30.9	106	87	Yes	21	0	n/a	0.01	NP

Appendix III Trend Tests - All Results

Plant Yates Client: Southern Company Data: Yates AMA-R6 Printed 7/7/2025, 2:54 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	GWA-2 (bg)	0	26	81	No	20	65	n/a	0.01	NP
Boron (mg/L)	YGWA-1D (bg)	0.001316	85	105	No	24	45.83	n/a	0.01	NP
Boron (mg/L)	YGWA-1I (bg)	0	-8	-105	No	24	70.83	n/a	0.01	NP
Boron (mg/L)	YGWA-2I (bg)	0	14	105	No	24	83.33	n/a	0.01	NP
Boron (mg/L)	YGWA-3D (bg)	0	40	105	No	24	66.67	n/a	0.01	NP
Boron (mg/L)	YGWA-3I (bg)	0	6	105	No	24	87.5	n/a	0.01	NP
Boron (mg/L)	YGWA-4I (bg)	0	31	105	No	24	75	n/a	0.01	NP
Boron (mg/L)	YGWA-5D (bg)	0.0006459	88	105	No	24	25	n/a	0.01	NP
Boron (mg/L)	YGWA-5I (bg)	0	10	105	No	24	70.83	n/a	0.01	NP
Boron (mg/L)	YGWA-14S (bg)	-0.0001609	-34	-105	No	24	4.167	n/a	0.01	NP
Boron (mg/L)	YGWA-17S (bg)	0.0005253	92	105	No	24	16.67	n/a	0.01	NP
Boron (mg/L)	YGWA-18I (bg)	0	-2	-105	No	24	83.33	n/a	0.01	NP
Boron (mg/L)	**YGWA-18S (bg)**	**0.001383**	**106**	**105**	**Yes**	**24**	**29.17**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWA-20S (bg)	0	1	105	No	24	91.67	n/a	0.01	NP
Boron (mg/L)	YGWA-21I (bg)	0	-14	-105	No	24	54.17	n/a	0.01	NP
Boron (mg/L)	YGWA-30I (bg)	0	-4	-105	No	24	87.5	n/a	0.01	NP
Boron (mg/L)	**YGWA-39 (bg)**	**0.01699**	**128**	**87**	**Yes**	**21**	**4.762**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWA-40 (bg)**	**-0.01069**	**-141**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWA-47 (bg)	-0.0001691	-18	-87	No	21	9.524	n/a	0.01	NP
Boron (mg/L)	**YGWC-38**	**-2.835**	**-187**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWC-41**	**-1.642**	**-151**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWC-23S	0.02539	47	105	No	24	0	n/a	0.01	NP
Boron (mg/L)	**YGWC-42**	**-1.239**	**-140**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWC-43**	**0.3609**	**135**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWC-50	1.377	10	21	No	8	0	n/a	0.01	NP
Calcium (mg/L)	**GWA-2 (bg)**	**2.258**	**92**	**81**	**Yes**	**20**	**5**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-1D (bg)**	**0.5297**	**156**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-1I (bg)**	**-0.07121**	**-145**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-2I (bg)	0.2799	55	105	No	24	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-3D (bg)	0.2329	70	105	No	24	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-3I (bg)	0.4036	98	105	No	24	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-4I (bg)	0.04754	29	111	No	25	0	n/a	0.01	NP
Calcium (mg/L)	**YGWA-5D (bg)**	**-0.954**	**-118**	**-111**	**Yes**	**25**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-5I (bg)**	**0.07137**	**183**	**111**	**Yes**	**25**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-14S (bg)	0.01105	65	105	No	24	0	n/a	0.01	NP
Calcium (mg/L)	**YGWA-17S (bg)**	**0.1399**	**224**	**111**	**Yes**	**25**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-18I (bg)	0.06656	87	105	No	24	0	n/a	0.01	NP
Calcium (mg/L)	**YGWA-18S (bg)**	**-0.05985**	**-185**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-20S (bg)	0.0347	98	111	No	25	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-21I (bg)	0.3697	85	111	No	25	0	n/a	0.01	NP
Calcium (mg/L)	**YGWA-30I (bg)**	**0.02843**	**114**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-39 (bg)**	**2.416**	**139**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-40 (bg)	-0.1992	-62	-87	No	21	4.762	n/a	0.01	NP
Calcium (mg/L)	**YGWA-47 (bg)**	**-0.7627**	**-140**	**-87**	**Yes**	**21**	**4.762**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWC-38**	**-23.52**	**-196**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWC-36A	0.5688	33	111	No	25	0	n/a	0.01	NP
Calcium (mg/L)	**YGWC-42**	**-9.638**	**-160**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWC-50	36.03	14	21	No	8	0	n/a	0.01	NP
Sulfate (mg/L)	**GWA-2 (bg)**	**9.755**	**89**	**81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-1D (bg)**	**0.8411**	**210**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-1I (bg)	-0.09313	-44	-105	No	24	0	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-2I (bg)**	**1.308**	**141**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-3D (bg)**	**0.2228**	**127**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-3I (bg)**	**0.6848**	**128**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-4I (bg)	0	9	111	No	25	0	n/a	0.01	NP

Appendix III Trend Tests - All Results

Plant Yates Client: Southern Company Data: Yates AMA-R6 Printed 7/7/2025, 2:54 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Sulfate (mg/L)	**YGWA-5D (bg)**	**-2.029**	**-218**	**-111**	**Yes**	**25**	**4**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-5I (bg)**	**0.07442**	**179**	**111**	**Yes**	**25**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-14S (bg)	0	4	105	No	24	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-17S (bg)	-0.05102	-55	-111	No	25	0	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-18I (bg)**	**-0.08662**	**-107**	**-105**	**Yes**	**24**	**16.67**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-18S (bg)**	**-0.1227**	**-171**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-20S (bg)	0.003345	107	111	No	25	60	n/a	0.01	NP
Sulfate (mg/L)	YGWA-21I (bg)	-0.1796	-102	-111	No	25	0	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-30I (bg)**	**-0.0618**	**-109**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-39 (bg)**	**-2.355**	**-162**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-40 (bg)**	**-5.328**	**-161**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-47 (bg)**	**-9.679**	**-165**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWC-36A	-0.6826	-13	-105	No	24	0	n/a	0.01	NP
Sulfate (mg/L)	**YGWC-42**	**-82.83**	**-170**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWC-43	8.979	58	87	No	21	0	n/a	0.01	NP
Sulfate (mg/L)	YGWC-50	-61.16	-7	-21	No	8	0	n/a	0.01	NP
TDS (mg/L)	GWA-2 (bg)	12.15	73	81	No	20	0	n/a	0.01	NP
TDS (mg/L)	YGWA-1D (bg)	2.993	99	105	No	24	0	n/a	0.01	NP
TDS (mg/L)	YGWA-1I (bg)	0	2	105	No	24	0	n/a	0.01	NP
TDS (mg/L)	YGWA-2I (bg)	0.4129	20	105	No	24	0	n/a	0.01	NP
TDS (mg/L)	YGWA-3D (bg)	2.591	59	105	No	24	0	n/a	0.01	NP
TDS (mg/L)	YGWA-3I (bg)	2.067	45	105	No	24	0	n/a	0.01	NP
TDS (mg/L)	YGWA-4I (bg)	2.052	50	105	No	24	0	n/a	0.01	NP
TDS (mg/L)	YGWA-5D (bg)	-5.897	-61	-98	No	23	0	n/a	0.01	NP
TDS (mg/L)	YGWA-5I (bg)	0.3624	18	105	No	24	0	n/a	0.01	NP
TDS (mg/L)	YGWA-14S (bg)	1.401	67	105	No	24	0	n/a	0.01	NP
TDS (mg/L)	YGWA-17S (bg)	2.373	77	105	No	24	0	n/a	0.01	NP
TDS (mg/L)	YGWA-18I (bg)	0.2504	7	105	No	24	0	n/a	0.01	NP
TDS (mg/L)	YGWA-18S (bg)	1.39	46	105	No	24	0	n/a	0.01	NP
TDS (mg/L)	YGWA-20S (bg)	2.836	81	105	No	24	0	n/a	0.01	NP
TDS (mg/L)	**YGWA-21I (bg)**	**8.192**	**112**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
TDS (mg/L)	YGWA-30I (bg)	1.9	69	105	No	24	8.333	n/a	0.01	NP
TDS (mg/L)	**YGWA-39 (bg)**	**23.65**	**120**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
TDS (mg/L)	YGWA-40 (bg)	-3.94	-62	-87	No	21	0	n/a	0.01	NP
TDS (mg/L)	**YGWA-47 (bg)**	**-9.065**	**-118**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**YGWC-38**	**-157.7**	**-172**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
TDS (mg/L)	YGWC-36A	-18.6	-56	-105	No	24	0	n/a	0.01	NP
TDS (mg/L)	**YGWC-42**	**-104.1**	**-158**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**YGWC-43**	**30.9**	**106**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
TDS (mg/L)	YGWC-50	74.43	16	21	No	8	0	n/a	0.01	NP

Upper Tolerance Limits Summary Table

Plant Yates Client: Southern Company Data: Yates AMA-R6 Printed 5/20/2025, 9:48 PM

Constituent	Upper Lim.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.0047	467	n/a	n/a	87.58	n/a	n/a	NaN	NP Inter(NDs)
Arsenic (mg/L)	0.005	515	n/a	n/a	74.56	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	0.21	515	n/a	n/a	2.136	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	0.0011	499	n/a	n/a	80.36	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	0.00063	499	n/a	n/a	94.79	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	0.0093	467	n/a	n/a	80.51	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	0.035	508	n/a	n/a	69.49	n/a	n/a	NaN	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	6.92	493	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Fluoride (mg/L)	1.1	518	n/a	n/a	54.25	n/a	n/a	NaN	NP Inter(NDs)
Lead (mg/L)	0.0013	469	n/a	n/a	87.85	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	0.03	493	n/a	n/a	27.18	n/a	n/a	NaN	NP Inter(normality)
Mercury (mg/L)	0.00064	423	n/a	n/a	87.23	n/a	n/a	NaN	NP Inter(NDs)
Molybdenum (mg/L)	0.03	457	n/a	n/a	61.49	n/a	n/a	NaN	NP Inter(NDs)
Selenium (mg/L)	0.005	497	n/a	n/a	92.96	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	0.001	431	n/a	n/a	97.22	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		1.1	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	0.03	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*

Lithium YGWC-42 & Selenium YGWC-38 Trend Tests - All/Significant Results

Plant Yates Client: Southern Company Data: Yates AMA-R6 Printed 5/16/2025, 11:12 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Lithium (mg/L)	**YGWC-42**	**0.003719**	**164**	**76**	**Yes**	**23**	**0**	**n/a**	**0.05**	**NP**
Selenium (mg/L)	**YGWC-38**	**-0.03408**	**-237**	**-76**	**Yes**	**23**	**0**	**n/a**	**0.05**	**NP**

Lithium YGWC-42 & Selenium YGWC-38 Trend Tests
Truncated Records - Significant Results

Plant Yates Client: Southern Company Data: Yates AMA-R6 Printed 5/16/2025, 11:09 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Selenium (mg/L)	**YGWC-38**	**-0.00611**	**-31**	**-20**	**Yes**	**9**	**0**	**n/a**	**0.05**	**NP**

Lithium YGWC-42 & Selenium YGWC-38 Trend Tests - Truncated Records - All Results

Plant Yates Client: Southern Company Data: Yates AMA-R6 Printed 5/16/2025, 11:09 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Lithium (mg/L)	YGWC-42	-0.0007604	-5	-20	No	9	0	n/a	0.05	NP
Selenium (mg/L)	**YGWC-38**	**-0.00611**	**-31**	**-20**	**Yes**	**9**	**0**	**n/a**	**0.05**	**NP**

Appendix IV Confidence Intervals - Significant Results

Plant Yates Client: Southern Company Data: Yates AMA-R6 Printed 7/7/2025, 3:02 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cadmium (mg/L)	**YGWC-50**	**0.01555**	**0.008925**	**0.005**	**Yes**	**8**	**0.01224**	**0.003125**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**YGWC-42**	**0.05626**	**0.04899**	**0.04**	**Yes**	**9**	**0.05262**	**0.003766**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**YAMW-3**	**0.05371**	**0.04062**	**0.04**	**Yes**	**8**	**0.04716**	**0.006175**	**0**	**None**	**No**	**0.01**	**Param.**
Selenium (mg/L)	**PZ-37**	**0.2513**	**0.177**	**0.05**	**Yes**	**21**	**0.2141**	**0.06742**	**0**	**None**	**No**	**0.01**	**Param.**

Appendix IV Confidence Intervals - All Results

Plant Yates Client: Southern Company Data: Yates AMA-R6 Printed 7/7/2025, 3:02 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	YGWC-38	0.003	0.0015	0.006	No	22	0.002471	0.001021	77.27	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-41	0.003	0.0014	0.006	No	22	0.002927	0.0003411	95.45	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-23S	0.003	0.00085	0.006	No	25	0.00261	0.0009166	84	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-24SB	0.003	0.0009	0.006	No	24	0.002913	0.0004287	95.83	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-36A	0.003	0.0015	0.006	No	26	0.00355	0.005129	50	None	No	0.01	NP (normality)
Antimony (mg/L)	YGWC-42	0.003	0.00053	0.006	No	22	0.002888	0.0005266	95.45	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-43	0.003	0.0026	0.006	No	22	0.00286	0.0005758	90.91	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-49	0.003	0.0011	0.006	No	22	0.002801	0.0006489	90.91	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-50	0.0034	0.00062	0.006	No	8	0.001935	0.001255	37.5	None	No	0.004	NP (normality)
Antimony (mg/L)	YAMW-1	0.025	0.0016	0.006	No	13	0.004282	0.006274	61.54	None	No	0.01	NP (NDs)
Antimony (mg/L)	YAMW-4	0.003	0.00065	0.006	No	11	0.002243	0.001067	63.64	None	No	0.006	NP (NDs)
Antimony (mg/L)	YAMW-5	0.003	0.003	0.006	No	11	0.002757	0.000805	90.91	None	No	0.006	NP (NDs)
Antimony (mg/L)	PZ-35	0.003	0.00039	0.006	No	13	0.002799	0.0007239	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-37D	0.003	0.00052	0.006	No	9	0.002369	0.0009814	66.67	None	No	0.002	NP (NDs)
Antimony (mg/L)	PZ-37	0.0085	0.0014	0.006	No	21	0.002865	0.001546	76.19	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-52D	0.016	0.00081	0.006	No	8	0.004351	0.004769	75	None	No	0.004	NP (NDs)
Arsenic (mg/L)	YGWC-38	0.005	0.00096	0.01	No	23	0.002546	0.001887	34.78	None	No	0.01	NP (normality)
Arsenic (mg/L)	YGWC-41	0.005	0.001	0.01	No	23	0.003327	0.002007	56.52	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-23S	0.005	0.0025	0.01	No	27	0.004481	0.001304	85.19	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-24SB	0.005	0.0035	0.01	No	26	0.004535	0.001198	84.62	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-36A	0.005	0.0047	0.01	No	27	0.004127	0.001673	74.07	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-42	0.002289	0.001498	0.01	No	23	0.002664	0.001411	21.74	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	YGWC-43	0.005	0.0033	0.01	No	23	0.004072	0.001679	73.91	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-49	0.005	0.0028	0.01	No	22	0.00433	0.001503	81.82	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-50	0.005	0.0014	0.01	No	8	0.0036	0.00165	37.5	None	No	0.004	NP (normality)
Arsenic (mg/L)	YAMW-1	0.005	0.0034	0.01	No	14	0.004402	0.001283	78.57	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YAMW-3	0.005	0.0015	0.01	No	7	0.003929	0.0015	57.14	None	No	0.008	NP (NDs)
Arsenic (mg/L)	YAMW-4	0.005	0.001	0.01	No	11	0.003317	0.001811	45.45	None	No	0.006	NP (normality)
Arsenic (mg/L)	YAMW-5	0.005	0.0011	0.01	No	11	0.003386	0.001723	45.45	None	No	0.006	NP (normality)
Arsenic (mg/L)	PZ-35	0.005	0.0014	0.01	No	14	0.003761	0.001785	64.29	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-37D	0.005	0.0014	0.01	No	9	0.004467	0.001217	77.78	None	No	0.002	NP (NDs)
Arsenic (mg/L)	PZ-37	0.005	0.0012	0.01	No	21	0.003026	0.001791	38.1	None	No	0.01	NP (normality)
Arsenic (mg/L)	PZ-51	0.005	0.0013	0.01	No	7	0.004	0.001712	71.43	None	No	0.008	NP (NDs)
Arsenic (mg/L)	PZ-52D	0.0055	0.0013	0.01	No	8	0.003537	0.001798	37.5	None	No	0.004	NP (normality)
Barium (mg/L)	YGWC-38	0.02127	0.01699	2	No	23	0.01913	0.004087	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-41	0.02657	0.02033	2	No	23	0.02345	0.005963	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-23S	0.04976	0.03513	2	No	27	0.04245	0.01534	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-24SB	0.025	0.019	2	No	26	0.02217	0.004565	0	None	No	0.01	NP (normality)
Barium (mg/L)	YGWC-36A	0.05832	0.0352	2	No	27	0.05294	0.0368	0	None	ln(x)	0.01	Param.
Barium (mg/L)	YGWC-42	0.03844	0.0274	2	No	23	0.0335	0.01111	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	YGWC-43	0.0332	0.02183	2	No	23	0.02752	0.01087	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-49	0.0744	0.06406	2	No	22	0.06923	0.009637	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-50	0.0204	0.0156	2	No	8	0.018	0.002268	0	None	No	0.01	Param.
Barium (mg/L)	YAMW-1	0.086	0.039	2	No	14	0.06479	0.02352	0	None	No	0.01	NP (normality)
Barium (mg/L)	YAMW-2	0.009245	0.007301	2	No	11	0.008273	0.001166	0	None	No	0.01	Param.
Barium (mg/L)	YAMW-3	0.04132	0.02439	2	No	7	0.03286	0.007128	0	None	No	0.01	Param.
Barium (mg/L)	YAMW-4	0.02	0.003	2	No	11	0.006618	0.006932	0	None	No	0.006	NP (normality)
Barium (mg/L)	YAMW-5	0.042	0.034	2	No	11	0.03864	0.006577	0	None	No	0.006	NP (normality)
Barium (mg/L)	PZ-35	0.1416	0.04804	2	No	14	0.1001	0.07256	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	PZ-37D	0.0267	0.01419	2	No	9	0.02044	0.006483	0	None	No	0.01	Param.
Barium (mg/L)	PZ-37	0.04573	0.02949	2	No	21	0.03761	0.01472	0	None	No	0.01	Param.
Barium (mg/L)	PZ-51	0.0162	0.01323	2	No	7	0.01471	0.001254	0	None	No	0.01	Param.
Barium (mg/L)	PZ-52D	0.02518	0.007068	2	No	8	0.01613	0.008545	0	None	No	0.01	Param.
Beryllium (mg/L)	YGWC-38	0.004604	0.002988	0.004	No	23	0.003796	0.001545	0	None	No	0.01	Param.
Beryllium (mg/L)	YGWC-41	0.0036	0.0014	0.004	No	23	0.0024	0.001048	0	None	No	0.01	NP (normality)

Appendix IV Confidence Intervals - All Results

Plant Yates Client: Southern Company Data: Yates AMA-R6 Printed 7/7/2025, 3:02 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	YGWC-23S	0.00022	0.00009	0.004	No	27	0.0003403	0.0004963	14.81	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-24SB	0.00015	0.0001	0.004	No	26	0.0002262	0.0003762	7.692	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-36A	0.0005623	0.0002334	0.004	No	27	0.0005833	0.0007097	3.704	None	ln(x)	0.01	Param.
Beryllium (mg/L)	YGWC-42	0.0005	0.00009	0.004	No	23	0.0003515	0.0002082	65.22	None	No	0.01	NP (NDs)
Beryllium (mg/L)	YGWC-43	0.00057	0.00033	0.004	No	23	0.001053	0.001188	26.09	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-49	0.00013	0.0001	0.004	No	22	0.0001277	0.00004375	9.091	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-50	0.005058	0.003117	0.004	No	8	0.004088	0.0009156	0	None	No	0.01	Param.
Beryllium (mg/L)	YAMW-1	0.0005	0.000095	0.004	No	14	0.0002813	0.0001868	35.71	None	No	0.01	NP (normality)
Beryllium (mg/L)	YAMW-2	0.0005	0.000055	0.004	No	11	0.000261	0.0002289	45.45	None	No	0.006	NP (normality)
Beryllium (mg/L)	YAMW-3	0.0002193	0.00006072	0.004	No	7	0.00014	0.00006674	14.29	None	No	0.01	Param.
Beryllium (mg/L)	YAMW-5	0.0001469	0.0001108	0.004	No	12	0.0001288	0.000023	0	None	No	0.01	Param.
Beryllium (mg/L)	PZ-35	0.001226	0.0004426	0.004	No	15	0.0008847	0.0006565	13.33	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	PZ-37	0.0012	0.0003	0.004	No	21	0.0007924	0.0004815	9.524	None	No	0.01	NP (normality)
Beryllium (mg/L)	PZ-51	0.00364	0.002531	0.004	No	7	0.003086	0.000467	0	None	No	0.01	Param.
Beryllium (mg/L)	PZ-52D	0.0005	0.000059	0.004	No	8	0.0003931	0.000198	75	None	No	0.004	NP (NDs)
Cadmium (mg/L)	YGWC-38	0.0027	0.00094	0.005	No	23	0.001807	0.0008835	0	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-41	0.0005	0.00018	0.005	No	23	0.0003417	0.000159	47.83	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-23S	0.0005	0.00007	0.005	No	27	0.0004841	0.00008275	96.3	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-36A	0.0005	0.00014	0.005	No	11	0.0004045	0.0001643	72.73	None	No	0.006	NP (NDs)
Cadmium (mg/L)	YGWC-42	0.0005	0.00021	0.005	No	23	0.0003983	0.0001551	56.52	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-49	0.0005	0.00007	0.005	No	22	0.0004805	0.00009168	95.45	None	No	0.01	NP (NDs)
Cadmium (mg/L)	**YGWC-50**	**0.01555**	**0.008925**	**0.005**	**Yes**	**8**	**0.01224**	**0.003125**	**0**	**None**	**No**	**0.01**	**Param.**
Cadmium (mg/L)	YAMW-1	0.0005	0.00015	0.005	No	14	0.0002736	0.0001516	28.57	None	No	0.01	NP (normality)
Cadmium (mg/L)	YAMW-2	0.0005	0.0005	0.005	No	11	0.0004682	0.0001055	90.91	None	No	0.006	NP (NDs)
Cadmium (mg/L)	YAMW-3	0.0005	0.00022	0.005	No	7	0.0004	0.000125	42.86	None	No	0.008	NP (normality)
Cadmium (mg/L)	YAMW-5	0.00025	0.00018	0.005	No	11	0.0002373	0.00007669	0	None	No	0.006	NP (normality)
Cadmium (mg/L)	PZ-35	0.00074	0.0002	0.005	No	14	0.0003886	0.0001842	50	None	No	0.01	NP (normality)
Cadmium (mg/L)	PZ-37	0.0007969	0.0005116	0.005	No	21	0.0006543	0.0002586	9.524	None	No	0.01	Param.
Cadmium (mg/L)	PZ-51	0.0019	0.0017	0.005	No	7	0.001757	0.00007868	0	None	No	0.008	NP (normality)
Cadmium (mg/L)	PZ-52D	0.0005	0.00025	0.005	No	8	0.0004688	0.00008839	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	YGWC-38	0.005	0.0023	0.1	No	23	0.004498	0.00136	86.96	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-41	0.005	0.00039	0.1	No	23	0.0048	0.0009613	95.65	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-23S	0.005	0.00086	0.1	No	23	0.003257	0.002047	56.52	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-24SB	0.005	0.0022	0.1	No	22	0.004152	0.001617	77.27	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-36A	0.005	0.0035	0.1	No	23	0.004412	0.001392	82.61	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-42	0.005	0.0013	0.1	No	23	0.004449	0.001461	86.96	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-43	0.005	0.00074	0.1	No	23	0.004242	0.001689	82.61	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-49	0.002014	0.001701	0.1	No	21	0.001857	0.0002839	4.762	None	No	0.01	Param.
Chromium (mg/L)	YGWC-50	0.005	0.00041	0.1	No	8	0.004426	0.001623	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	YAMW-1	0.005	0.00074	0.1	No	12	0.003282	0.00213	58.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	YAMW-2	0.005	0.0011	0.1	No	11	0.003728	0.001851	63.64	None	No	0.006	NP (NDs)
Chromium (mg/L)	YAMW-3	0.005	0.0011	0.1	No	7	0.004443	0.001474	85.71	None	No	0.008	NP (NDs)
Chromium (mg/L)	YAMW-4	0.005	0.005	0.1	No	11	0.004597	0.001336	90.91	None	No	0.006	NP (NDs)
Chromium (mg/L)	YAMW-5	0.005	0.005	0.1	No	11	0.004691	0.001025	90.91	None	No	0.006	NP (NDs)
Chromium (mg/L)	PZ-35	0.005	0.00061	0.1	No	12	0.003017	0.002093	50	None	No	0.01	NP (normality)
Chromium (mg/L)	PZ-37	0.005	0.0019	0.1	No	21	0.004505	0.001252	85.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-52D	0.005	0.0011	0.1	No	8	0.00405	0.00176	75	None	No	0.004	NP (NDs)
Cobalt (mg/L)	YGWC-41	0.005	0.0011	0.035	No	23	0.004234	0.001712	82.61	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-36A	0.005	0.00086	0.035	No	27	0.004004	0.0019	77.78	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-42	0.002115	0.001711	0.035	No	23	0.001913	0.0003865	4.348	None	No	0.01	Param.
Cobalt (mg/L)	YGWC-43	0.005	0.00057	0.035	No	23	0.002575	0.00196	34.78	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-49	0.005	0.0008	0.035	No	22	0.004205	0.001728	81.82	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-50	0.007725	0.003775	0.035	No	8	0.00575	0.001863	12.5	None	No	0.01	Param.
Cobalt (mg/L)	YAMW-1	0.01512	0.004036	0.035	No	16	0.01222	0.01109	12.5	None	ln(x)	0.01	Param.
Cobalt (mg/L)	YAMW-2	0.003776	0.0004137	0.035	No	11	0.002783	0.002317	18.18	Kaplan-Meier	No	0.01	Param.

Appendix IV Confidence Intervals - All Results

Plant Yates Client: Southern Company Data: Yates AMA-R6 Printed 7/7/2025, 3:02 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cobalt (mg/L)	YAMW-3	0.1375	0.0251	0.035	No	7	0.07686	0.05193	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	YAMW-4	0.005	0.00044	0.035	No	11	0.002212	0.002217	36.36	None	No	0.006	NP (normality)
Cobalt (mg/L)	YAMW-5	0.005	0.005	0.035	No	11	0.004615	0.001275	90.91	None	No	0.006	NP (NDs)
Cobalt (mg/L)	PZ-35	0.0059	0.005	0.035	No	14	0.005064	0.0002405	92.86	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-37	0.007377	0.003059	0.035	No	21	0.005933	0.004723	0	None	x^(1/3)	0.01	Param.
Cobalt (mg/L)	PZ-51	0.033	0.0043	0.035	No	7	0.01113	0.01077	0	None	No	0.008	NP (normality)
Cobalt (mg/L)	PZ-52D	0.003285	0.00122	0.035	No	8	0.002253	0.0009741	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-38	1.065	0.575	6.92	No	23	0.8202	0.4688	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-41	1.186	0.65	6.92	No	23	0.9178	0.5119	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-23S	0.7977	0.4239	6.92	No	27	0.6108	0.3918	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-24SB	0.7085	0.4399	6.92	No	26	0.5742	0.2755	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-36A	0.9297	0.5265	6.92	No	27	0.7281	0.4227	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-42	2.199	1.006	6.92	No	23	1.603	1.141	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-43	4.069	2.274	6.92	No	23	3.172	1.716	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-49	1.057	0.6027	6.92	No	22	0.8301	0.4236	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-50	1.039	0.4581	6.92	No	8	0.7488	0.2742	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YAMW-1	0.642	0.3869	6.92	No	13	0.5145	0.1715	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YAMW-2	0.6885	0.1491	6.92	No	11	0.4188	0.3237	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YAMW-3	2.395	0.7469	6.92	No	7	1.571	0.6937	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YAMW-4	0.8165	0.2264	6.92	No	11	0.5215	0.3541	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YAMW-5	1.1	0.6127	6.92	No	11	0.8563	0.2923	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-35	0.8944	0.4433	6.92	No	13	0.6688	0.3033	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-37D	3.838	1.418	6.92	No	9	2.628	1.253	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-37	1.759	1.083	6.92	No	19	1.421	0.5769	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-51	0.9804	0.5983	6.92	No	7	0.7816	0.2451	0	None	x^5	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-52D	1.488	0.2507	6.92	No	8	0.8691	0.5835	0	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-38	0.2	0.1	4	No	24	0.1385	0.09679	75	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-41	0.11	0.1	4	No	24	0.1004	0.002041	91.67	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-23S	0.1	0.057	4	No	29	0.0909	0.02386	75.86	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-24SB	0.1	0.098	4	No	27	0.09007	0.02444	81.48	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-36A	0.1	0.094	4	No	28	0.09629	0.02847	71.43	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-42	0.1	0.08	4	No	24	0.0885	0.02267	75	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-43	0.1009	0.06141	4	No	24	0.101	0.0465	20.83	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	YGWC-49	0.14	0.09	4	No	24	0.09917	0.02041	70.83	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-50	0.1445	0.07847	4	No	8	0.1115	0.03116	0	None	No	0.01	Param.
Fluoride (mg/L)	YAMW-2	0.1	0.061	4	No	11	0.08855	0.01987	72.73	None	No	0.006	NP (NDs)
Fluoride (mg/L)	YAMW-3	0.08807	0.06873	4	No	7	0.08457	0.0129	28.57	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	YAMW-4	0.09562	0.0612	4	No	11	0.09718	0.0253	45.45	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	YAMW-5	0.1	0.05	4	No	11	0.08227	0.02463	63.64	None	No	0.006	NP (NDs)
Fluoride (mg/L)	PZ-35	0.1	0.055	4	No	14	0.09679	0.01203	92.86	None	No	0.01	NP (NDs)
Fluoride (mg/L)	PZ-37D	0.2728	0.1449	4	No	9	0.2089	0.06623	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-37	0.23	0.064	4	No	21	0.1388	0.09456	76.19	None	No	0.01	NP (NDs)
Fluoride (mg/L)	PZ-51	0.1557	0.09487	4	No	7	0.1253	0.0256	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-52D	0.101	0.05047	4	No	8	0.07575	0.02385	12.5	None	No	0.01	Param.
Lead (mg/L)	YGWC-38	0.001	0.0001	0.015	No	23	0.0008826	0.0003099	86.96	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-41	0.001	0.0002	0.015	No	23	0.0008503	0.0003467	78.26	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-23S	0.001	0.00044	0.015	No	25	0.000873	0.0003029	84	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-24SB	0.001	0.00036	0.015	No	24	0.0009043	0.000263	87.5	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-36A	0.001	0.00025	0.015	No	25	0.0006436	0.0004231	40	None	No	0.01	NP (normality)
Lead (mg/L)	YGWC-42	0.001	0.0002	0.015	No	23	0.0008431	0.0003506	82.61	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-43	0.001	0.00008	0.015	No	23	0.0009198	0.0002658	91.3	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-49	0.001	0.000071	0.015	No	22	0.000915	0.0002751	90.91	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-50	0.001	0.0002	0.015	No	8	0.0004613	0.0003402	25	None	No	0.004	NP (normality)
Lead (mg/L)	YAMW-1	0.001	0.00019	0.015	No	13	0.0009377	0.0002247	92.31	None	No	0.01	NP (NDs)
Lead (mg/L)	YAMW-2	0.001	0.00011	0.015	No	11	0.0008355	0.0003662	81.82	None	No	0.006	NP (NDs)

Appendix IV Confidence Intervals - All Results

Plant Yates Client: Southern Company Data: Yates AMA-R6 Printed 7/7/2025, 3:02 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	YAMW-4	0.001	0.00028	0.015	No	11	0.0008105	0.0003395	72.73	None	No	0.006	NP (NDs)
Lead (mg/L)	YAMW-5	0.001	0.000073	0.015	No	11	0.0007476	0.0004325	72.73	None	No	0.006	NP (NDs)
Lead (mg/L)	PZ-35	0.0014	0.00015	0.015	No	13	0.0008482	0.0003861	69.23	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-37D	0.001	0.000049	0.015	No	9	0.0008943	0.000317	88.89	None	No	0.002	NP (NDs)
Lead (mg/L)	PZ-37	0.001	0.0002	0.015	No	21	0.0007559	0.0003967	71.43	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-51	0.001	0.00019	0.015	No	7	0.0008843	0.0003062	85.71	None	No	0.008	NP (NDs)
Lead (mg/L)	PZ-52D	0.0031	0.001	0.015	No	8	0.001313	0.0007357	50	None	No	0.004	NP (normality)
Lithium (mg/L)	YGWC-38	0.008198	0.006785	0.04	No	23	0.007492	0.001351	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-41	0.004	0.0021	0.04	No	23	0.003946	0.004678	4.348	None	No	0.01	NP (normality)
Lithium (mg/L)	YGWC-23S	0.002654	0.002134	0.04	No	27	0.002394	0.0005458	3.704	None	No	0.01	Param.
Lithium (mg/L)	YGWC-24SB	0.03	0.000839	0.04	No	26	0.02888	0.005719	96.15	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-36A	0.00237	0.00089	0.04	No	11	0.002605	0.00414	9.091	None	No	0.006	NP (normality)
Lithium (mg/L)	**YGWC-42**	**0.05626**	**0.04899**	**0.04**	**Yes**	**9**	**0.05262**	**0.003766**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	YGWC-43	0.01742	0.01288	0.04	No	23	0.01515	0.004341	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-49	0.003694	0.003315	0.04	No	22	0.003505	0.0003525	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-50	0.003506	0.002916	0.04	No	8	0.003211	0.0002783	0	None	No	0.01	Param.
Lithium (mg/L)	YAMW-1	0.02063	0.01077	0.04	No	14	0.0157	0.006954	7.143	None	No	0.01	Param.
Lithium (mg/L)	**YAMW-3**	**0.05371**	**0.04062**	**0.04**	**Yes**	**8**	**0.04716**	**0.006175**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	YAMW-4	0.03677	0.02672	0.04	No	11	0.03149	0.006751	0	None	x^2	0.01	Param.
Lithium (mg/L)	YAMW-5	0.01566	0.01358	0.04	No	11	0.01462	0.00125	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-35	0.004654	0.001514	0.04	No	14	0.003777	0.004088	7.143	None	ln(x)	0.01	Param.
Lithium (mg/L)	PZ-37D	0.0114	0.006684	0.04	No	9	0.009044	0.002444	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-37	0.028	0.016	0.04	No	21	0.027	0.02336	4.762	None	No	0.01	NP (normality)
Lithium (mg/L)	PZ-51	0.005785	0.00462	0.04	No	8	0.005203	0.0005493	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-52D	0.03141	0.01787	0.04	No	8	0.02464	0.006387	0	None	No	0.01	Param.
Mercury (mg/L)	YGWC-38	0.0002	0.00008	0.002	No	20	0.0001858	0.00004411	90	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-41	0.0002	0.00006	0.002	No	20	0.000193	0.0000313	95	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-23S	0.0002	0.00015	0.002	No	22	0.0001904	0.00002624	86.36	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-24SB	0.0002	0.00014	0.002	No	21	0.0001971	0.00001309	95.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-42	0.0002	0.000048	0.002	No	20	0.0001924	0.00003399	95	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-43	0.0002	0.00009	0.002	No	20	0.0001871	0.00004018	90	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-49	0.0002	0.00014	0.002	No	19	0.0001895	0.00003402	89.47	None	No	0.01	NP (NDs)
Mercury (mg/L)	YAMW-1	0.0002	0.0002	0.002	No	11	0.0001945	0.00001809	90.91	None	No	0.006	NP (NDs)
Mercury (mg/L)	YAMW-3	0.0002	0.00016	0.002	No	7	0.0001943	0.00001512	85.71	None	No	0.008	NP (NDs)
Mercury (mg/L)	PZ-37	0.0002	0.00019	0.002	No	21	0.0001929	0.00003052	90.48	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-41	0.01	0.0019	0.1	No	23	0.009648	0.001689	95.65	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-23S	0.01	0.0016	0.1	No	23	0.009635	0.001752	95.65	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-36A	0.01	0.0071	0.1	No	23	0.008217	0.00323	73.91	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-42	0.01	0.00081	0.1	No	23	0.004309	0.004292	34.78	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-43	0.01	0.0013	0.1	No	23	0.005022	0.004203	39.13	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-49	0.01	0.0007	0.1	No	21	0.009557	0.002029	95.24	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YAMW-1	0.01	0.0014	0.1	No	12	0.006832	0.003995	58.33	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YAMW-2	0.01	0.01	0.1	No	11	0.009245	0.002503	90.91	None	No	0.006	NP (NDs)
Molybdenum (mg/L)	YAMW-3	0.00739	0.00341	0.1	No	7	0.0054	0.001675	0	None	No	0.01	Param.
Molybdenum (mg/L)	YAMW-4	0.007749	0.006615	0.1	No	11	0.007145	0.0008323	0	None	x^3	0.01	Param.
Molybdenum (mg/L)	PZ-35	0.01	0.0019	0.1	No	12	0.009325	0.002338	91.67	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-37D	0.006017	0.002494	0.1	No	9	0.004256	0.001825	0	None	No	0.01	Param.
Molybdenum (mg/L)	PZ-37	0.01	0.0021	0.1	No	21	0.006862	0.004107	61.9	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-52D	0.01061	0.002364	0.1	No	8	0.006488	0.00389	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-38	0.06541	0.04615	0.05	No	9	0.05578	0.009972	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-41	0.061	0.027	0.05	No	23	0.04456	0.01904	0	None	No	0.01	NP (normality)
Selenium (mg/L)	YGWC-23S	0.03761	0.02866	0.05	No	27	0.03314	0.009378	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-36A	0.005	0.0024	0.05	No	27	0.003611	0.001425	33.33	None	No	0.01	NP (normality)
Selenium (mg/L)	YGWC-42	0.05041	0.03804	0.05	No	23	0.04422	0.01182	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-49	0.007973	0.006127	0.05	No	22	0.00705	0.00172	4.545	None	No	0.01	Param.

Appendix IV Confidence Intervals - All Results

Plant Yates Client: Southern Company Data: Yates AMA-R6 Printed 7/7/2025, 3:02 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Selenium (mg/L)	YGWC-50	0.005	0.0012	0.05	No	8	0.0029	0.001762	37.5	None	No	0.004	NP (normality)
Selenium (mg/L)	YAMW-1	0.005442	0.003001	0.05	No	14	0.004814	0.001548	35.71	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	YAMW-2	0.005	0.0012	0.05	No	12	0.004683	0.001097	91.67	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	YAMW-3	0.028	0.005	0.05	No	8	0.01331	0.01092	50	None	No	0.004	NP (normality)
Selenium (mg/L)	YAMW-4	0.01755	0.006196	0.05	No	12	0.0139	0.006618	16.67	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	YAMW-5	0.05825	0.04605	0.05	No	12	0.05175	0.009265	0	None	x^2	0.01	Param.
Selenium (mg/L)	PZ-35	0.005	0.0033	0.05	No	14	0.004093	0.001017	42.86	None	No	0.01	NP (normality)
Selenium (mg/L)	**PZ-37**	**0.2513**	**0.177**	**0.05**	**Yes**	**21**	**0.2141**	**0.06742**	**0**	**None**	**No**	**0.01**	**Param.**
Selenium (mg/L)	PZ-51	0.02838	0.02133	0.05	No	7	0.02486	0.002968	0	None	No	0.01	Param.
Selenium (mg/L)	PZ-52D	0.01097	0.003373	0.05	No	8	0.00705	0.003475	0	None	sqrt(x)	0.01	Param.
Thallium (mg/L)	YGWC-36A	0.001	0.000057	0.002	No	23	0.000959	0.0001966	95.65	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-49	0.001	0.00009	0.002	No	20	0.0009545	0.0002035	95	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-50	0.001	0.00015	0.002	No	8	0.0008938	0.0003005	87.5	None	No	0.004	NP (NDs)

Appendix IV Trend Tests - Significant Results

Plant Yates Client: Southern Company Data: Yates AMA-R6 Printed 7/7/2025, 3:08 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Lithium (mg/L)	**YGWA-1D (bg)**	**-0.0007935**	**-136**	**-96**	**Yes**	**27**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**YGWA-3D (bg)**	**0.0005113**	**166**	**96**	**Yes**	**27**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**YGWA-3I (bg)**	**0.001189**	**200**	**96**	**Yes**	**27**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**YGWA-18I (bg)**	**-0.000202**	**-150**	**-96**	**Yes**	**27**	**7.407**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**YGWA-18S (bg)**	**-0.0002014**	**-108**	**-96**	**Yes**	**27**	**3.704**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**YGWA-39 (bg)**	**0.0008044**	**128**	**76**	**Yes**	**23**	**4.348**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**YGWA-47 (bg)**	**-0.0001811**	**-118**	**-71**	**Yes**	**22**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**YGWC-42**	**0.003719**	**164**	**76**	**Yes**	**23**	**0**	**n/a**	**0.05**	**NP**
Selenium (mg/L)	**YGWA-17S (bg)**	**0**	**136**	**96**	**Yes**	**27**	**77.78**	**n/a**	**0.05**	**NP**
Selenium (mg/L)	**PZ-37**	**-0.02392**	**-130**	**-66**	**Yes**	**21**	**0**	**n/a**	**0.05**	**NP**

Appendix IV Trend Tests - All Results

Plant Yates Client: Southern Company Data: Yates AMA-R6 Printed 7/7/2025, 3:08 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Cadmium (mg/L)	GWA-2 (bg)	0	-1.486	-1.96	No	42	97.62	n/a	0.05	NP
Cadmium (mg/L)	YGWA-1D (bg)	0	16	85	No	25	96	n/a	0.05	NP
Cadmium (mg/L)	YGWA-1I (bg)	0	0	85	No	25	100	n/a	0.05	NP
Cadmium (mg/L)	YGWA-2I (bg)	0	0	85	No	25	100	n/a	0.05	NP
Cadmium (mg/L)	YGWA-3D (bg)	0	39	85	No	25	92	n/a	0.05	NP
Cadmium (mg/L)	YGWA-3I (bg)	0	-21	-85	No	25	88	n/a	0.05	NP
Cadmium (mg/L)	YGWA-4I (bg)	0	-24	-96	No	27	96.3	n/a	0.05	NP
Cadmium (mg/L)	YGWA-5D (bg)	0	0	96	No	27	100	n/a	0.05	NP
Cadmium (mg/L)	YGWA-5I (bg)	0	18	96	No	27	96.3	n/a	0.05	NP
Cadmium (mg/L)	YGWA-14S (bg)	0	14	85	No	25	96	n/a	0.05	NP
Cadmium (mg/L)	YGWA-17S (bg)	0	18	96	No	27	96.3	n/a	0.05	NP
Cadmium (mg/L)	YGWA-18I (bg)	0	0	96	No	27	100	n/a	0.05	NP
Cadmium (mg/L)	YGWA-18S (bg)	0	18	96	No	27	96.3	n/a	0.05	NP
Cadmium (mg/L)	YGWA-20S (bg)	0	0	96	No	27	100	n/a	0.05	NP
Cadmium (mg/L)	YGWA-21I (bg)	0	-19	-96	No	27	88.89	n/a	0.05	NP
Cadmium (mg/L)	YGWA-30I (bg)	0	0	85	No	25	100	n/a	0.05	NP
Cadmium (mg/L)	YGWA-39 (bg)	0	-35	-76	No	23	73.91	n/a	0.05	NP
Cadmium (mg/L)	YGWA-40 (bg)	0	0	76	No	23	100	n/a	0.05	NP
Cadmium (mg/L)	YGWA-47 (bg)	0	56	62	No	20	75	n/a	0.05	NP
Cadmium (mg/L)	YGWC-50	-0.002859	-13	-17	No	8	0	n/a	0.05	NP
Lithium (mg/L)	GWA-2 (bg)	-0.0001531	-31	-62	No	20	35	n/a	0.05	NP
Lithium (mg/L)	**YGWA-1D (bg)**	**-0.0007935**	**-136**	**-96**	**Yes**	**27**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	YGWA-1I (bg)	0	12	96	No	27	18.52	n/a	0.05	NP
Lithium (mg/L)	YGWA-2I (bg)	0.000001843	14	96	No	27	14.81	n/a	0.05	NP
Lithium (mg/L)	**YGWA-3D (bg)**	**0.0005113**	**166**	**96**	**Yes**	**27**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**YGWA-3I (bg)**	**0.001189**	**200**	**96**	**Yes**	**27**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	YGWA-4I (bg)	-0.0001542	-76	-96	No	27	0	n/a	0.05	NP
Lithium (mg/L)	YGWA-5D (bg)	0.00007676	53	96	No	27	0	n/a	0.05	NP
Lithium (mg/L)	YGWA-5I (bg)	0.00002938	72	96	No	27	11.11	n/a	0.05	NP
Lithium (mg/L)	YGWA-14S (bg)	0	0	96	No	27	100	n/a	0.05	NP
Lithium (mg/L)	YGWA-17S (bg)	0	13	96	No	27	92.59	n/a	0.05	NP
Lithium (mg/L)	**YGWA-18I (bg)**	**-0.000202**	**-150**	**-96**	**Yes**	**27**	**7.407**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**YGWA-18S (bg)**	**-0.0002014**	**-108**	**-96**	**Yes**	**27**	**3.704**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	YGWA-20S (bg)	0	-14	-96	No	27	96.3	n/a	0.05	NP
Lithium (mg/L)	YGWA-21I (bg)	0.00008913	76	96	No	27	3.704	n/a	0.05	NP
Lithium (mg/L)	YGWA-30I (bg)	0	-64	-96	No	27	44.44	n/a	0.05	NP
Lithium (mg/L)	**YGWA-39 (bg)**	**0.0008044**	**128**	**76**	**Yes**	**23**	**4.348**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	YGWA-40 (bg)	0	-45	-76	No	23	86.96	n/a	0.05	NP
Lithium (mg/L)	**YGWA-47 (bg)**	**-0.0001811**	**-118**	**-71**	**Yes**	**22**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**YGWC-42**	**0.003719**	**164**	**76**	**Yes**	**23**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	YAMW-3	0.002244	7	17	No	8	0	n/a	0.05	NP
Selenium (mg/L)	GWA-2 (bg)	0	0	1.96	No	42	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-1D (bg)	0	0	85	No	25	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-1I (bg)	0	0	85	No	25	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-2I (bg)	0	0	85	No	25	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-3D (bg)	0	0	85	No	25	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-3I (bg)	0	0	85	No	25	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-4I (bg)	0	15	96	No	27	92.59	n/a	0.05	NP
Selenium (mg/L)	YGWA-5D (bg)	0	0	96	No	27	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-5I (bg)	0	24	96	No	27	96.3	n/a	0.05	NP
Selenium (mg/L)	YGWA-14S (bg)	0	-14	-85	No	25	60	n/a	0.05	NP
Selenium (mg/L)	**YGWA-17S (bg)**	**0**	**136**	**96**	**Yes**	**27**	**77.78**	**n/a**	**0.05**	**NP**
Selenium (mg/L)	YGWA-18I (bg)	0	0	96	No	27	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-18S (bg)	0	0	96	No	27	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-20S (bg)	0	0	96	No	27	100	n/a	0.05	NP

Appendix IV Trend Tests - All Results

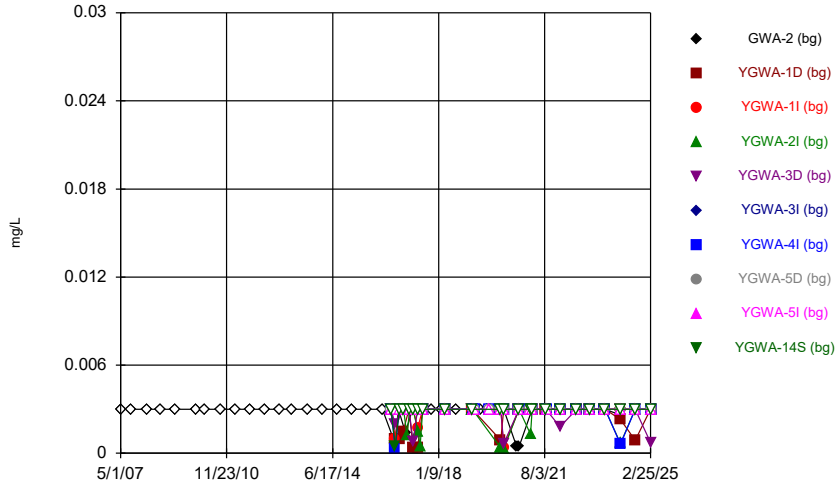
Plant Yates Client: Southern Company Data: Yates AMA-R6 Printed 7/7/2025, 3:08 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Selenium (mg/L)	YGWA-21I (bg)	0	49	96	No	27	92.59	n/a	0.05	NP
Selenium (mg/L)	YGWA-30I (bg)	0	0	85	No	25	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-39 (bg)	0	8	76	No	23	95.65	n/a	0.05	NP
Selenium (mg/L)	YGWA-40 (bg)	0	19	76	No	23	52.17	n/a	0.05	NP
Selenium (mg/L)	YGWA-47 (bg)	0	29	53	No	18	88.89	n/a	0.05	NP
Selenium (mg/L)	**PZ-37**	**-0.02392**	**-130**	**-66**	**Yes**	**21**	**0**	**n/a**	**0.05**	**NP**

FIGURE A.

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Hollow symbols indicate censored values.

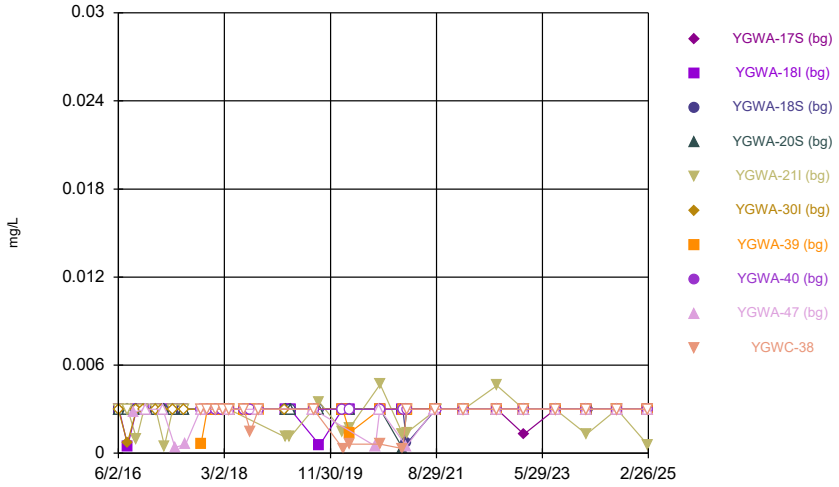
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Constituent: Antimony Analysis Run 7/7/2025 12:14 PM
Plant Yates Client: Southern Company Data: Yates AMA-R6

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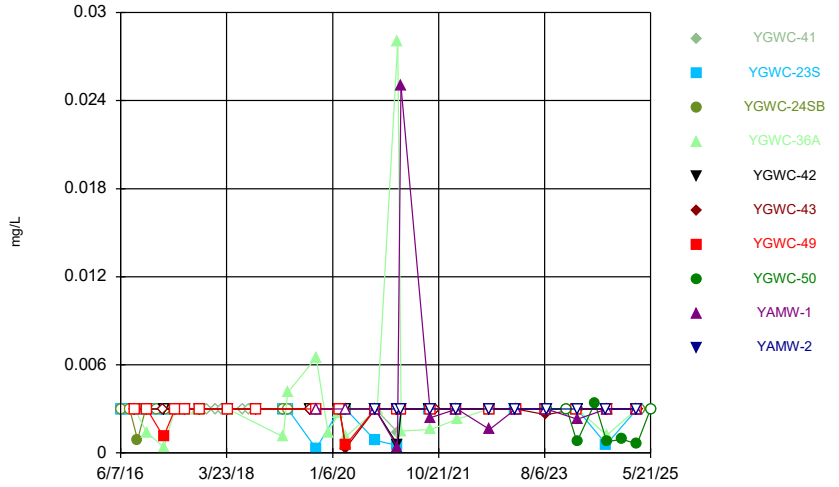
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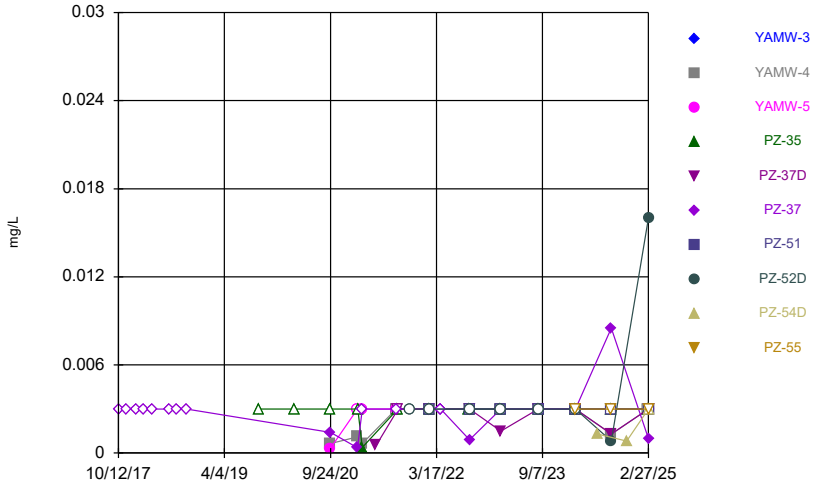
Time Series



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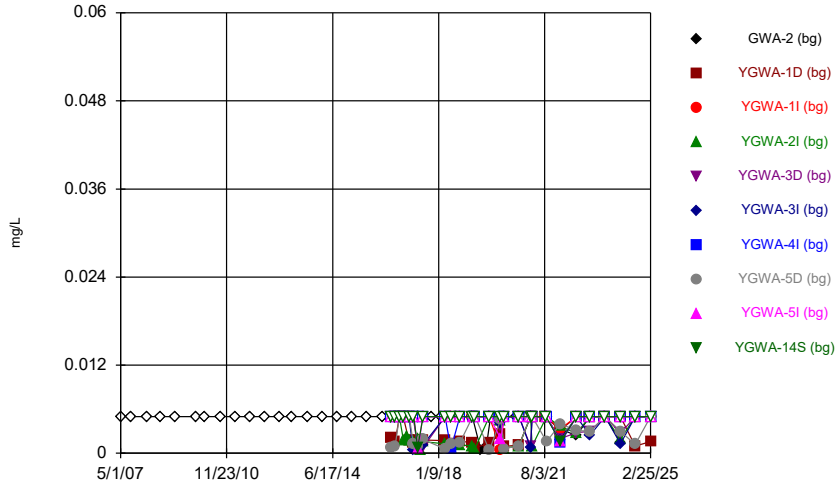
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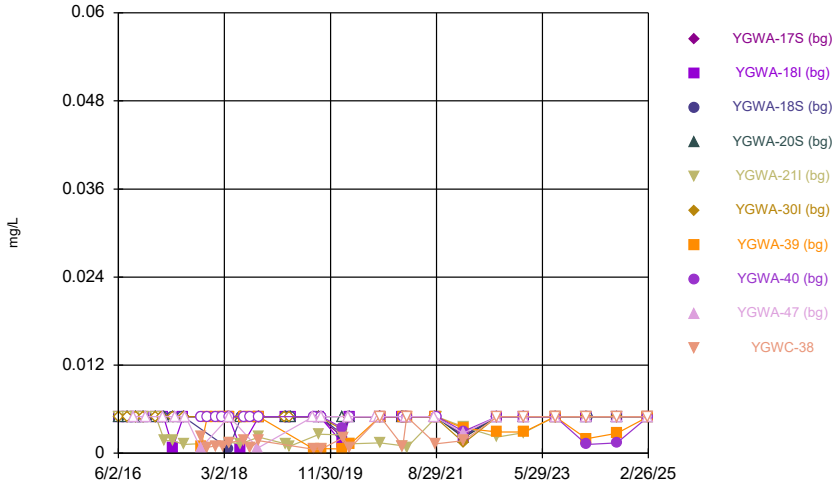
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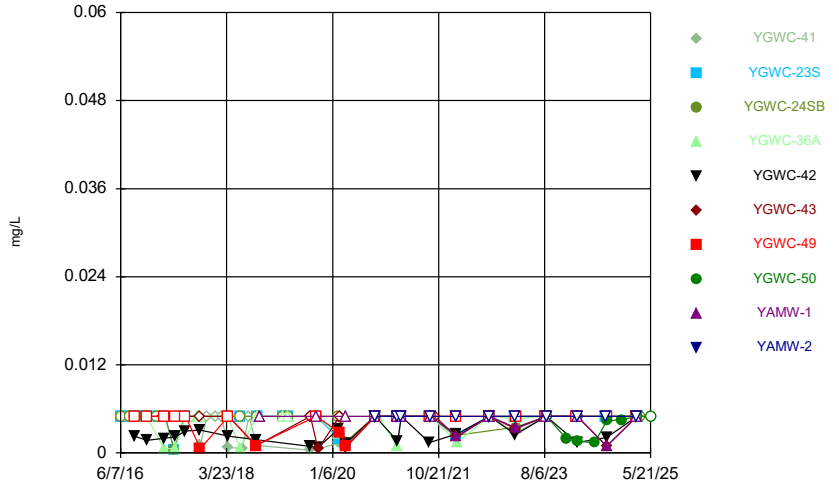
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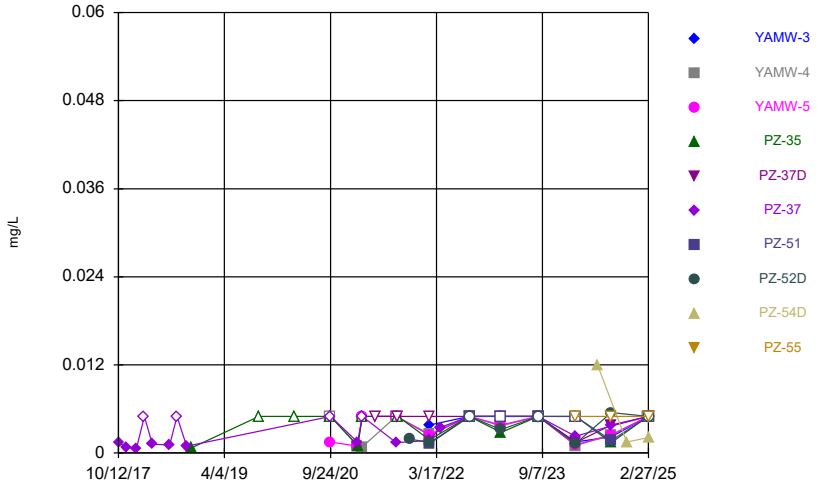
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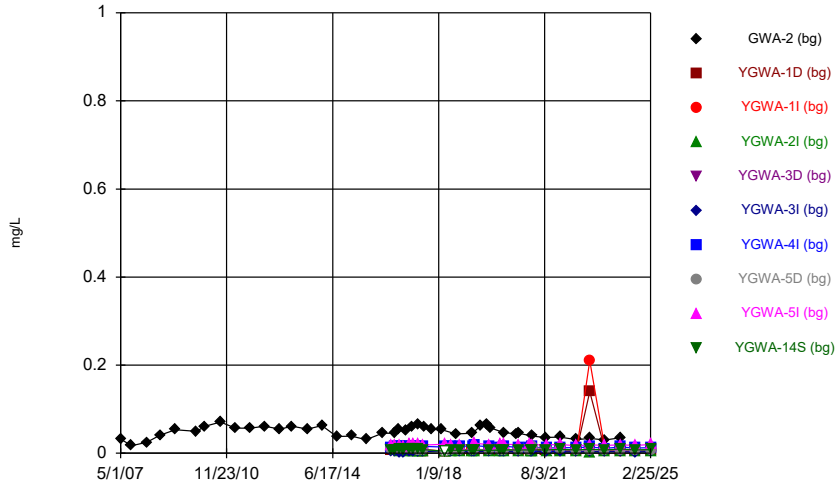
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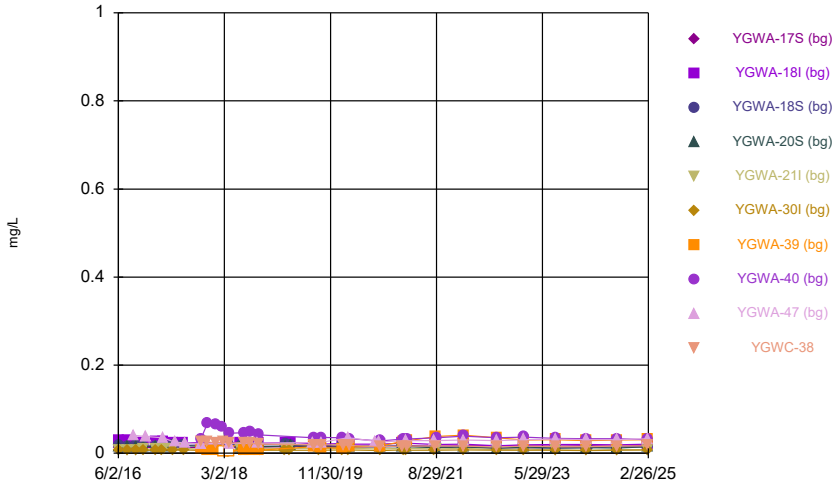
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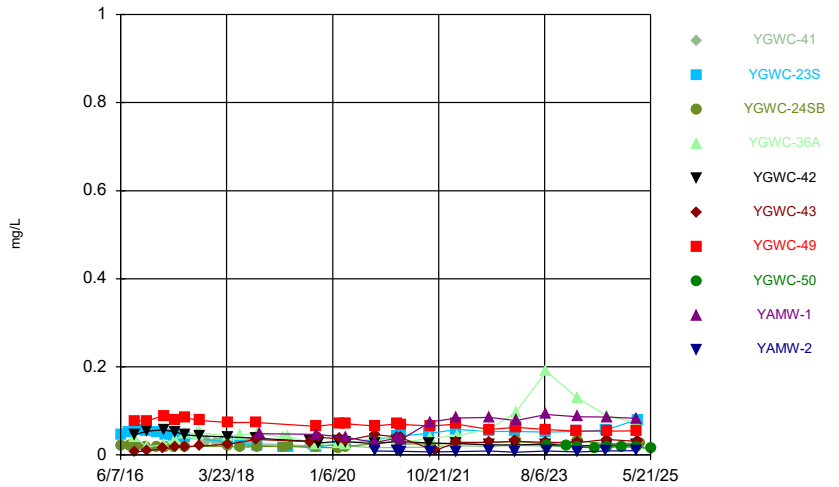
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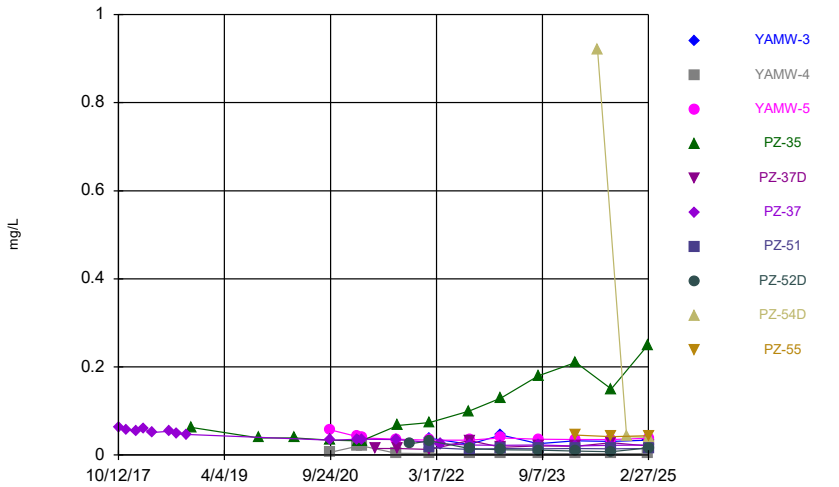
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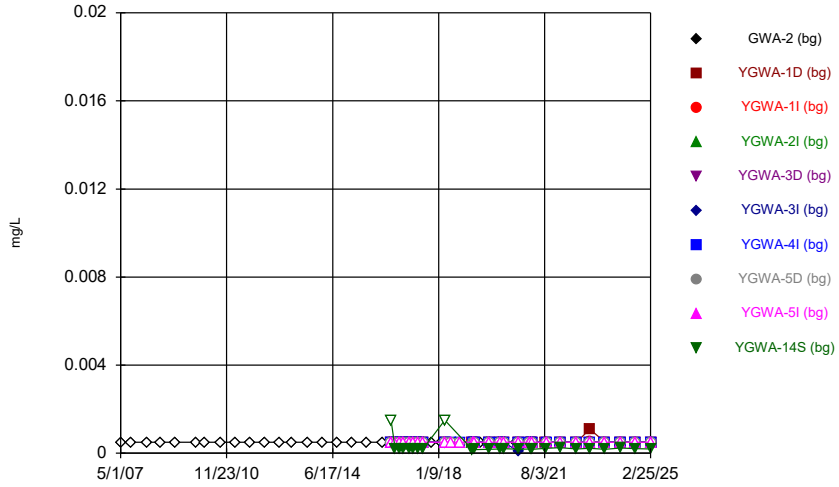
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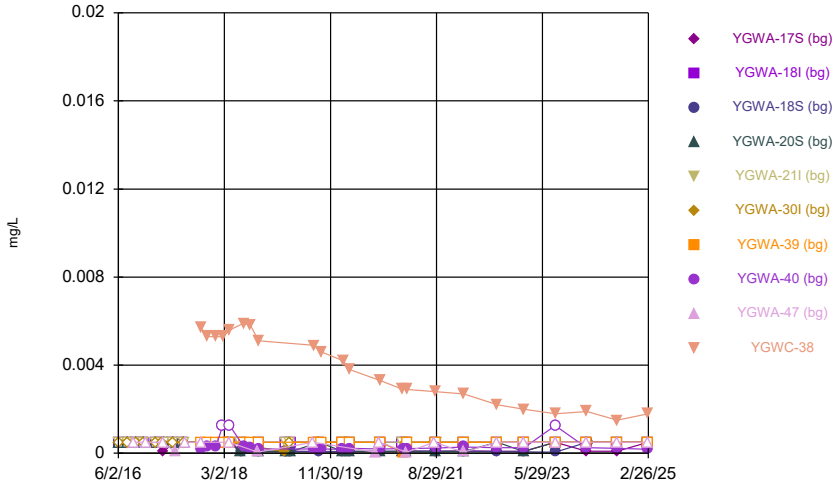
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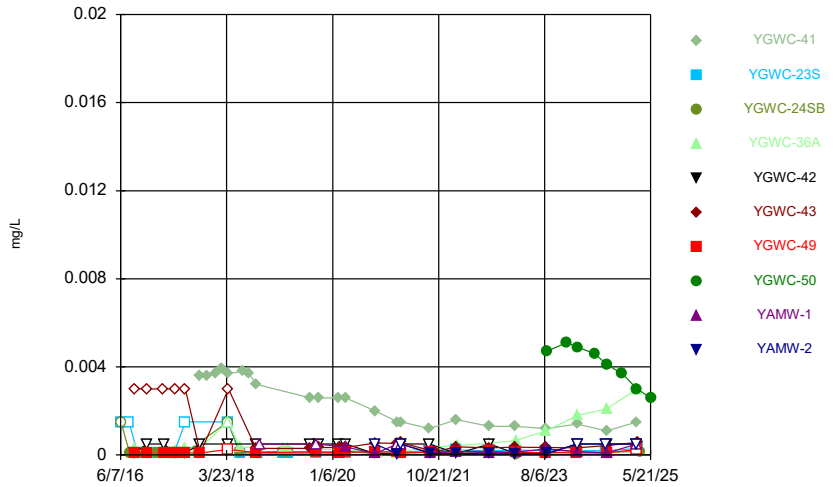
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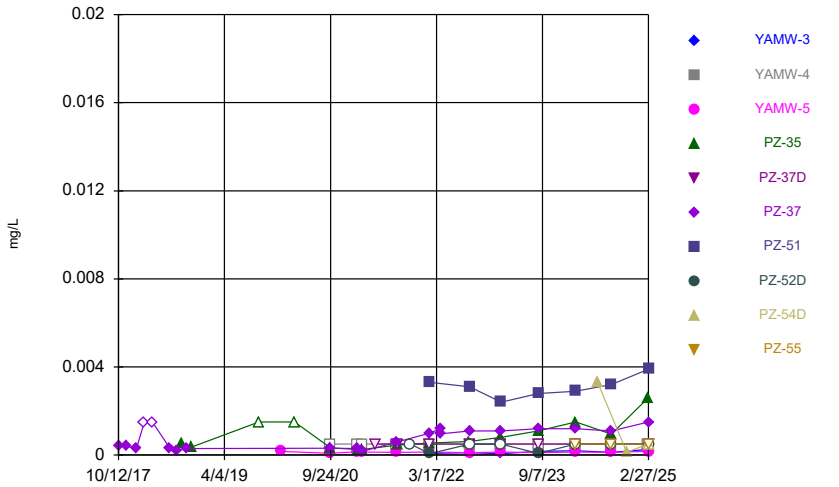
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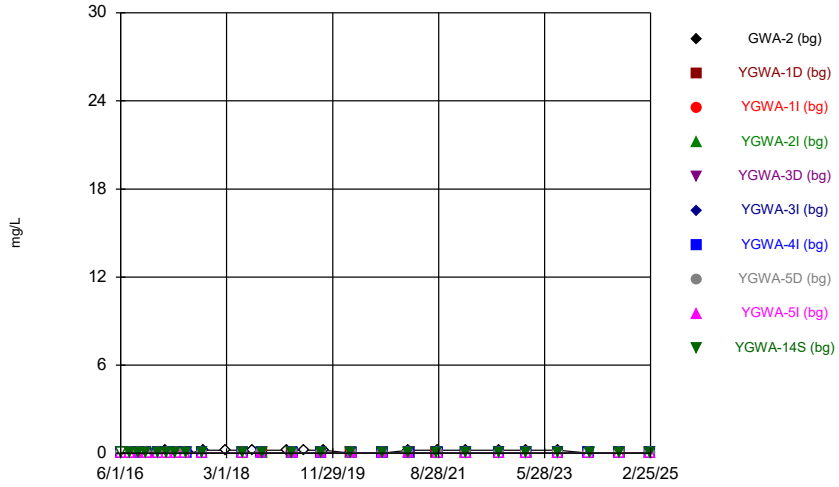
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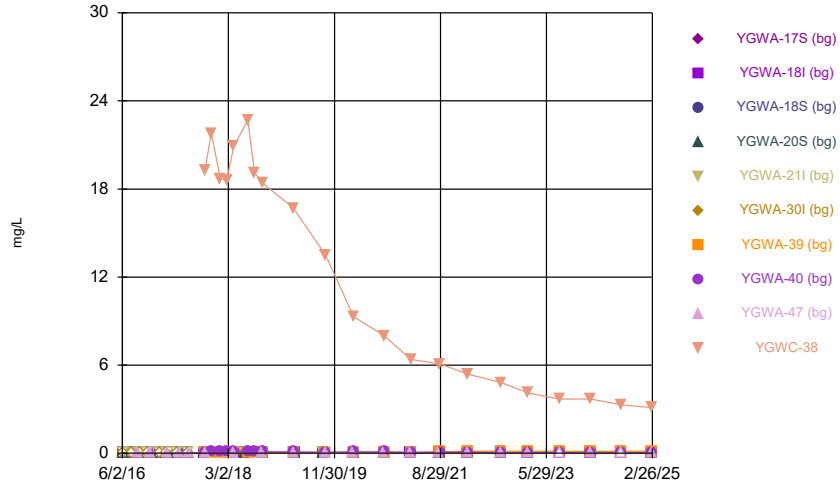
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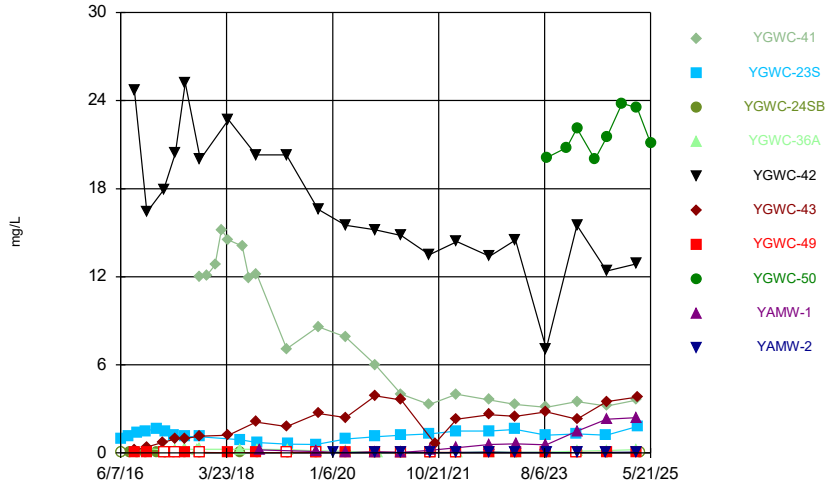
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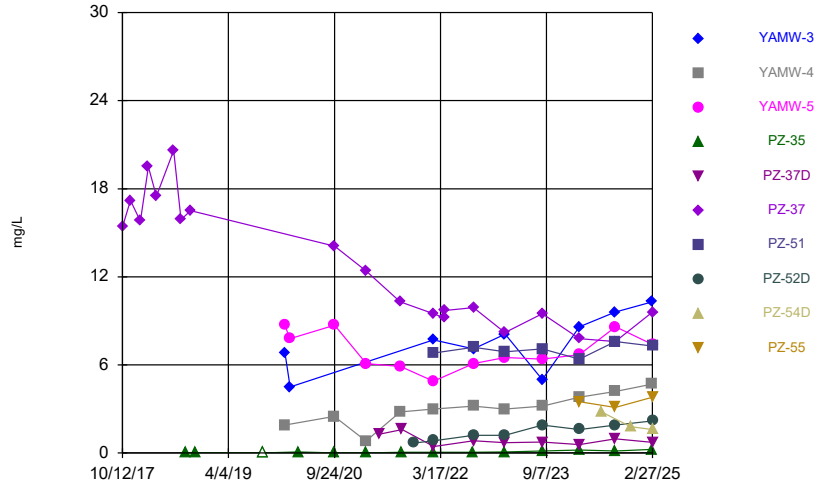
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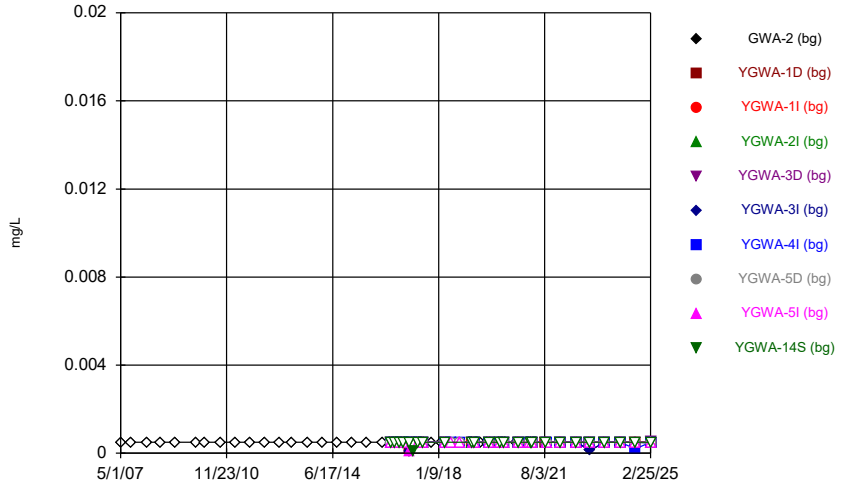
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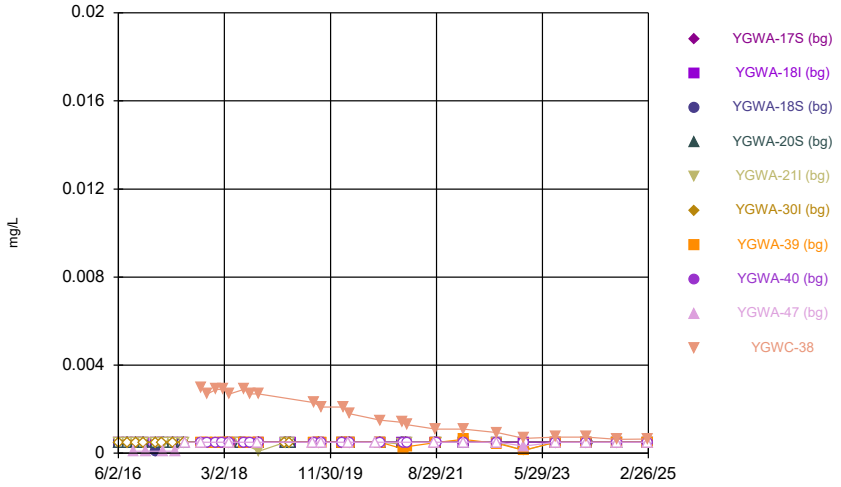
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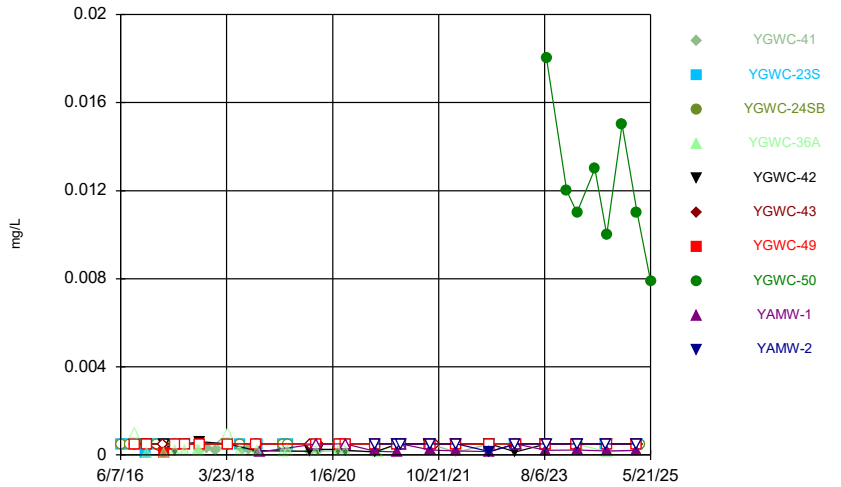
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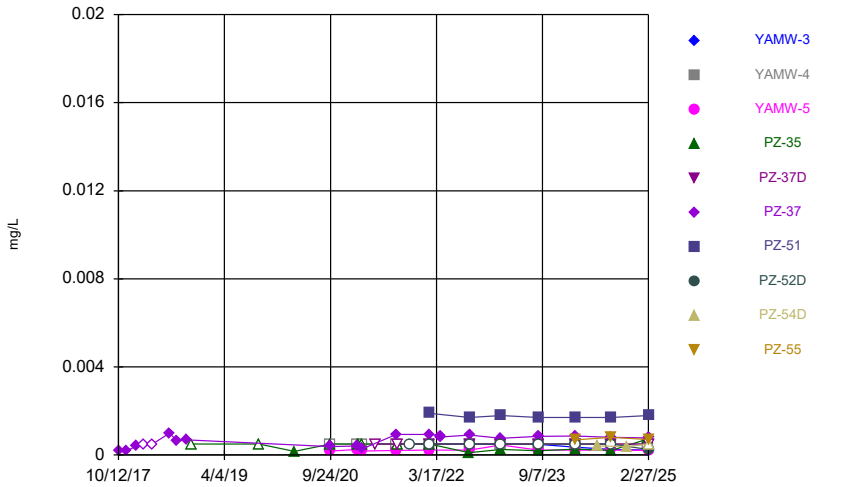
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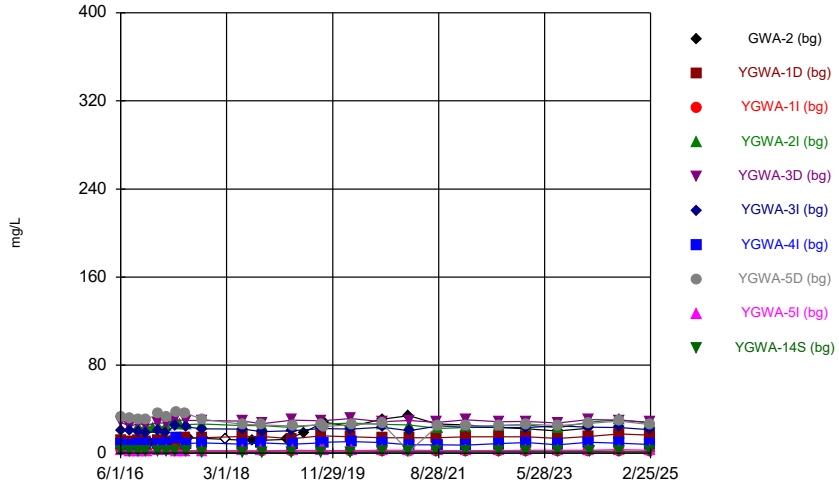
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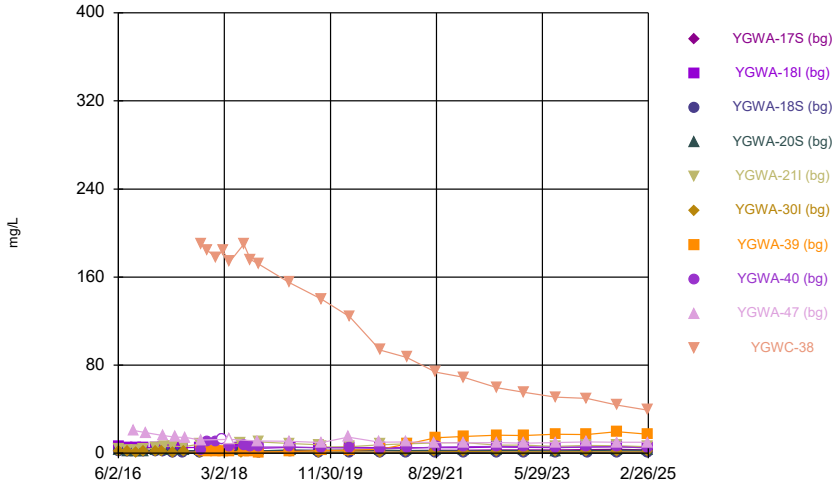
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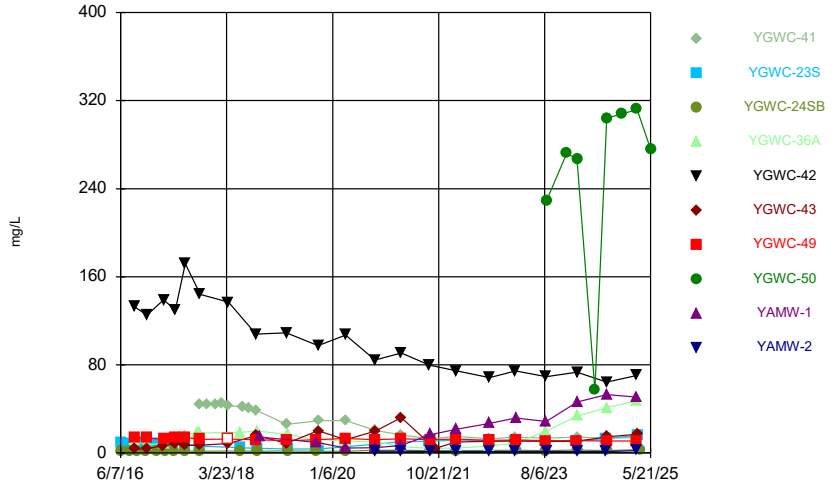
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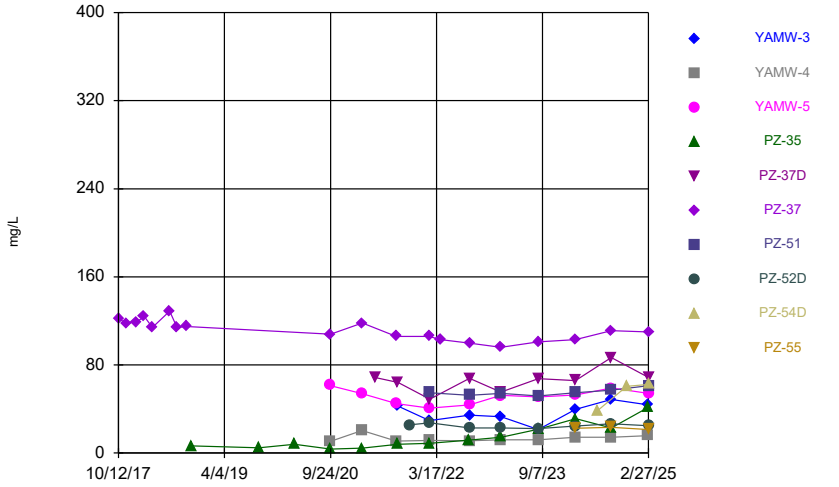
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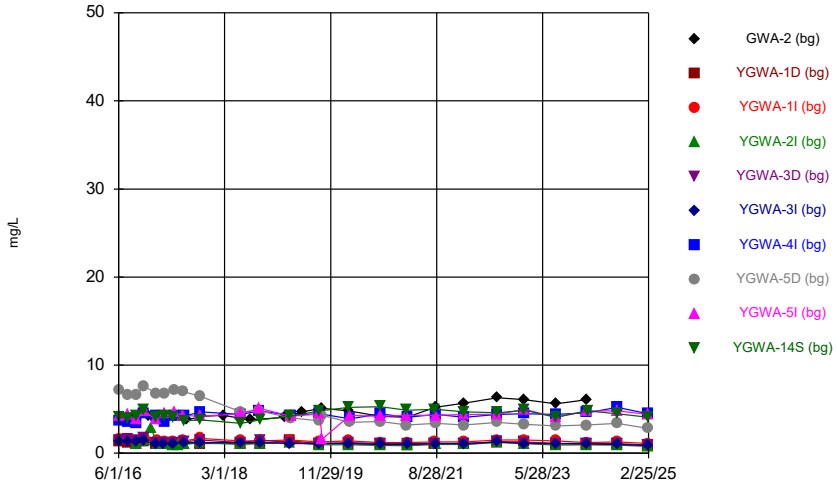
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Time Series

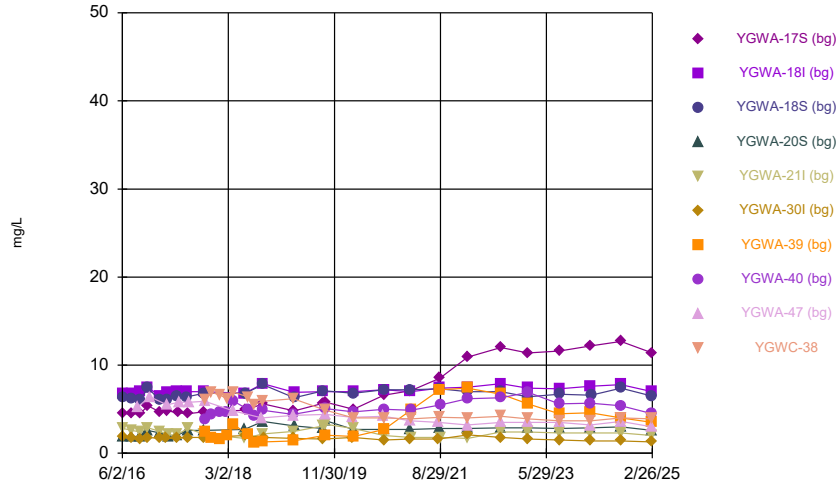


Constituent: Chloride Analysis Run 7/7/2025 12:15 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

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Time Series

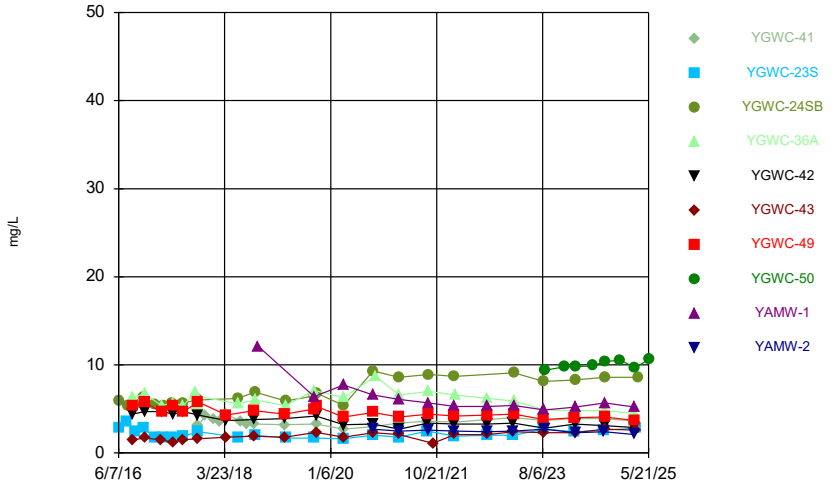


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Plant Yates Client: Southern Company Data: Yates AMA-R6

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Time Series

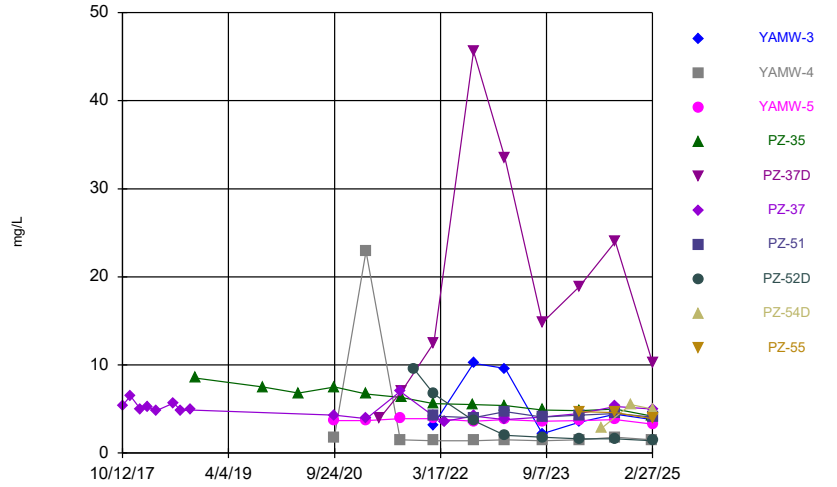


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Time Series

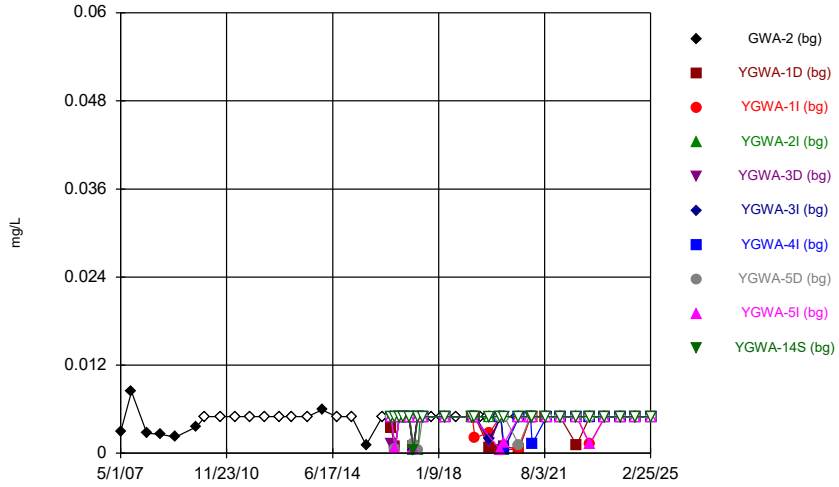


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Plant Yates Client: Southern Company Data: Yates AMA-R6

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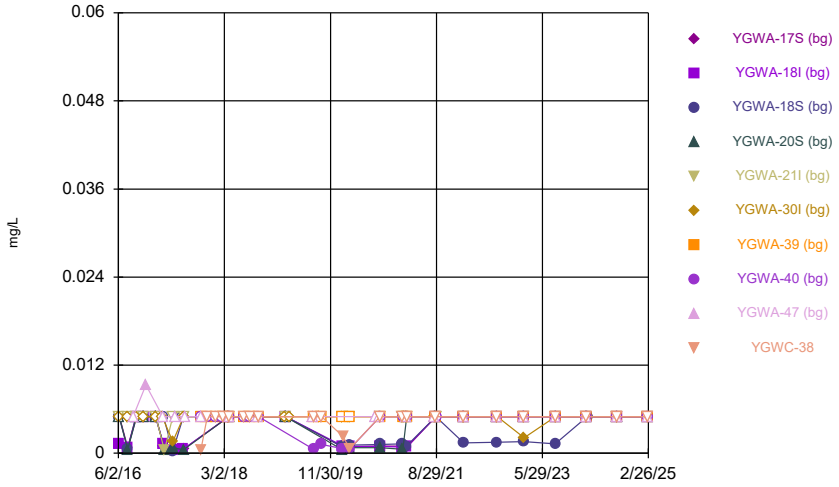
Time Series



Constituent: Chromium Analysis Run 7/7/2025 12:15 PM
Plant Yates Client: Southern Company Data: Yates AMA-R6

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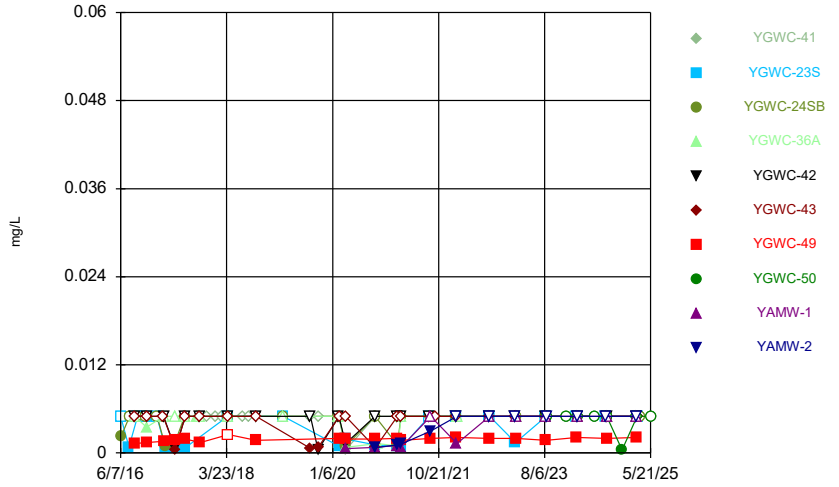
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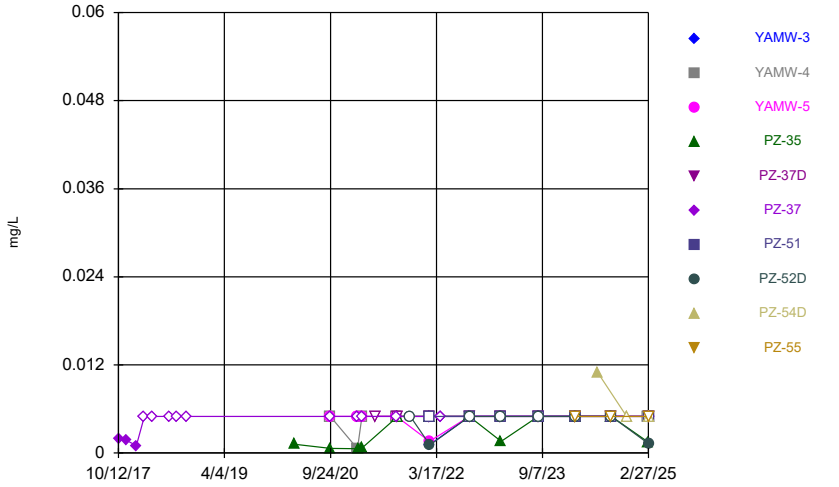
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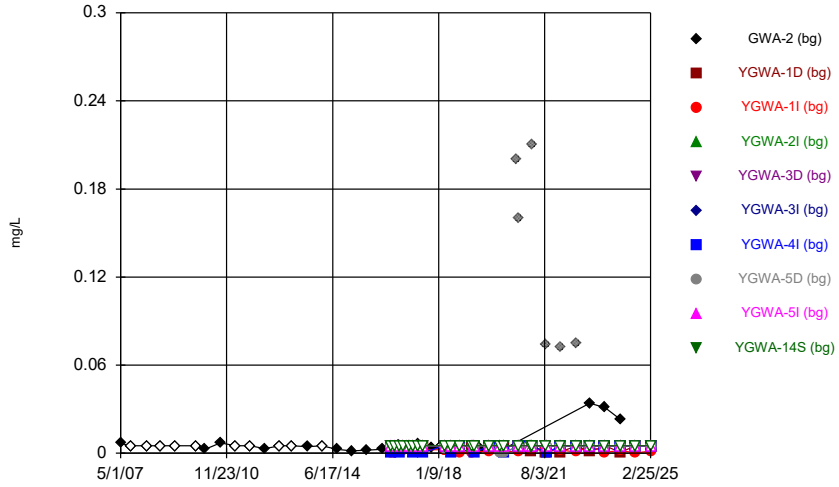
Time Series



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Plant Yates Client: Southern Company Data: Yates AMA-R6

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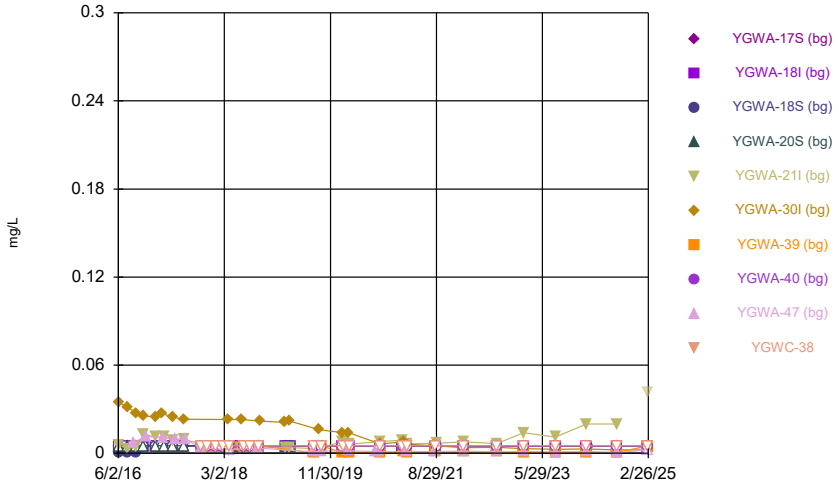
Time Series



Constituent: Cobalt Analysis Run 7/7/2025 12:15 PM
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

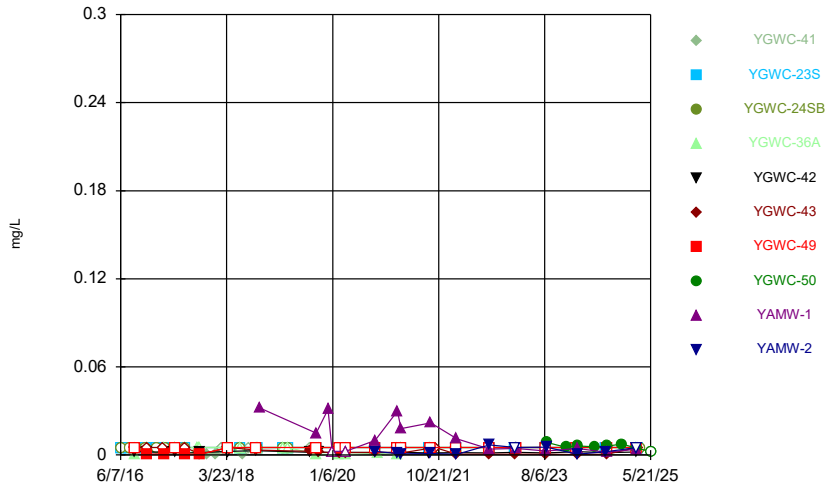
Time Series



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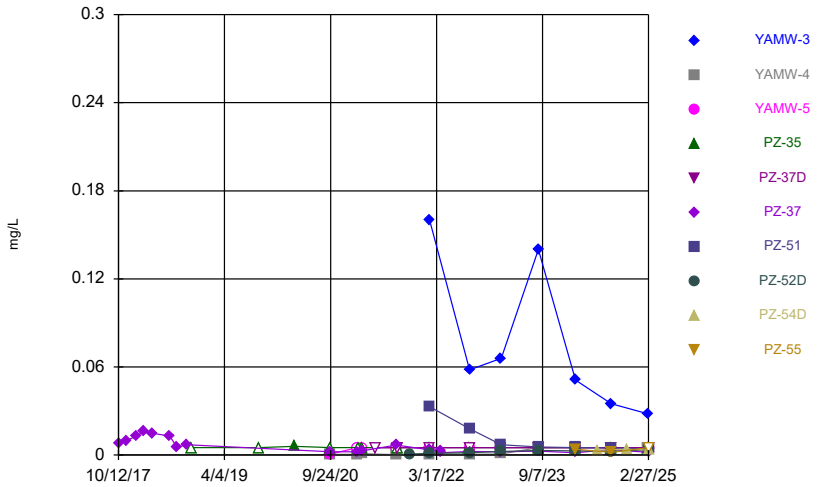
Time Series



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Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG
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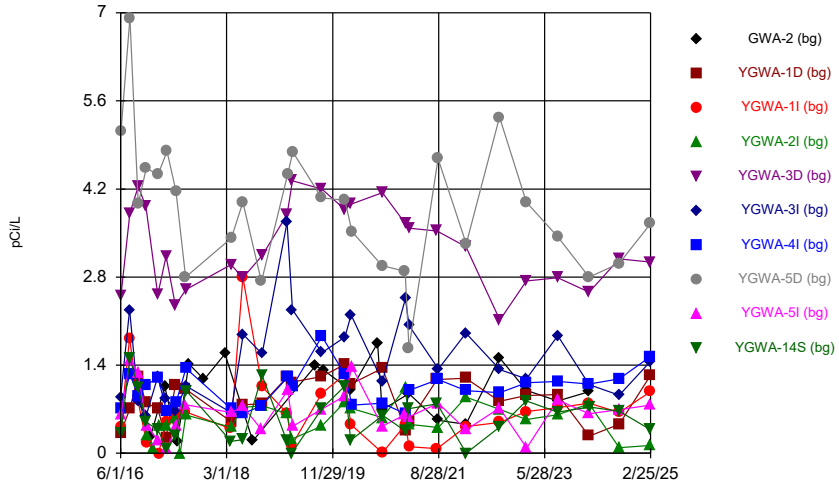
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Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG

Time Series

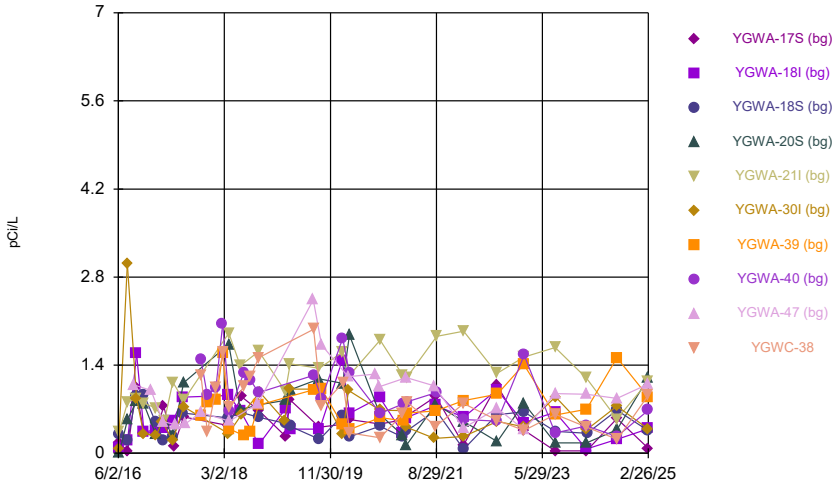


Constituent: Combined Radium 226 + 228 Analysis Run 7/7/2025 12:15 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG

Time Series

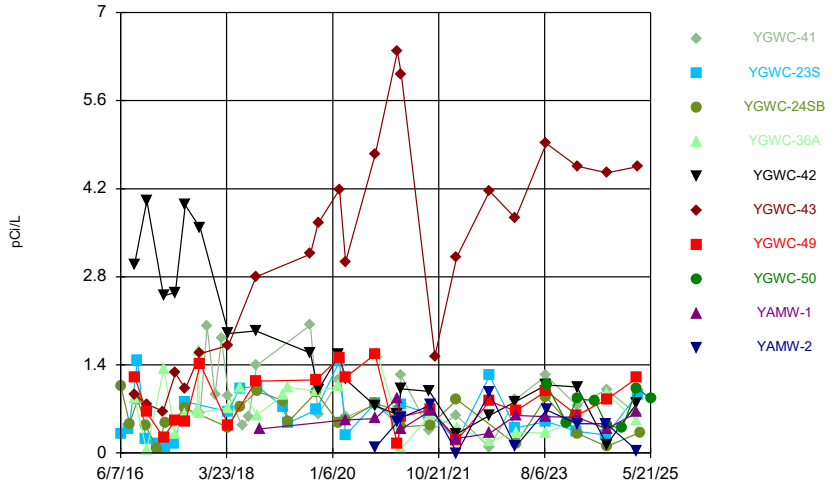


Constituent: Combined Radium 226 + 228 Analysis Run 7/7/2025 12:15 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG

Time Series

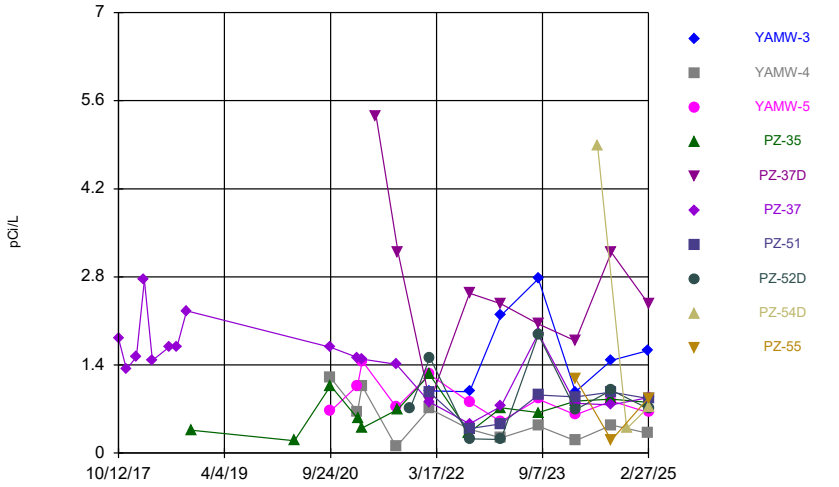


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Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG

Time Series

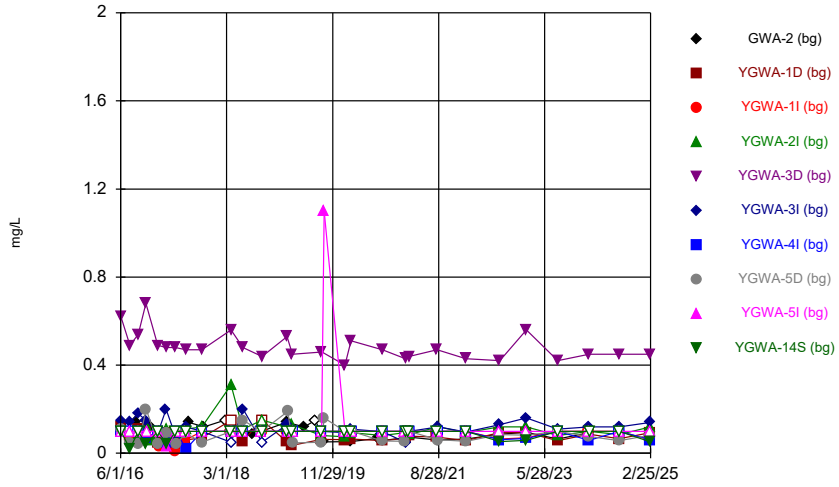


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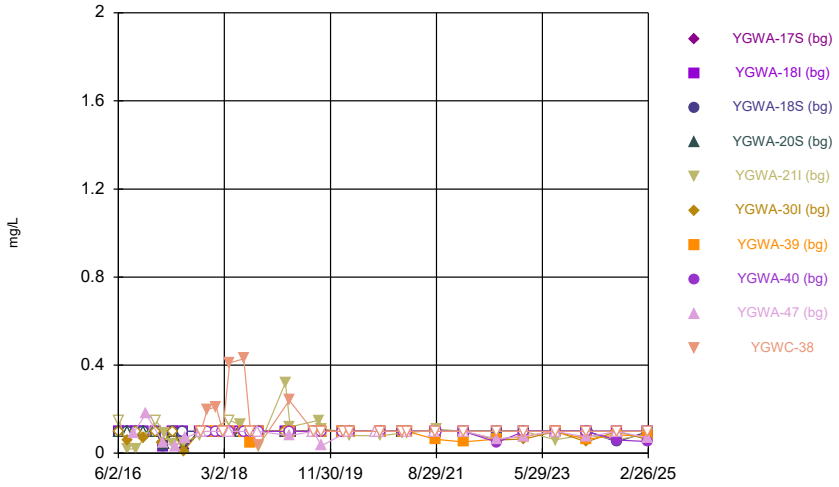
Time Series



Constituent: Fluoride Analysis Run 7/7/2025 12:15 PM
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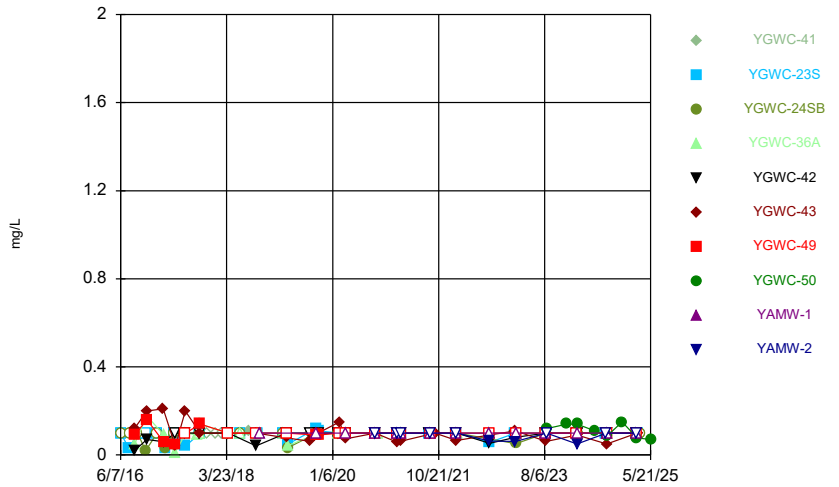
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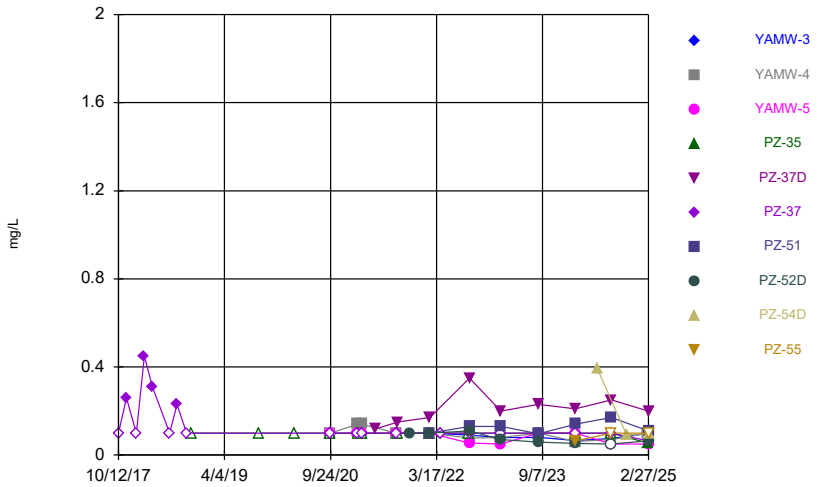
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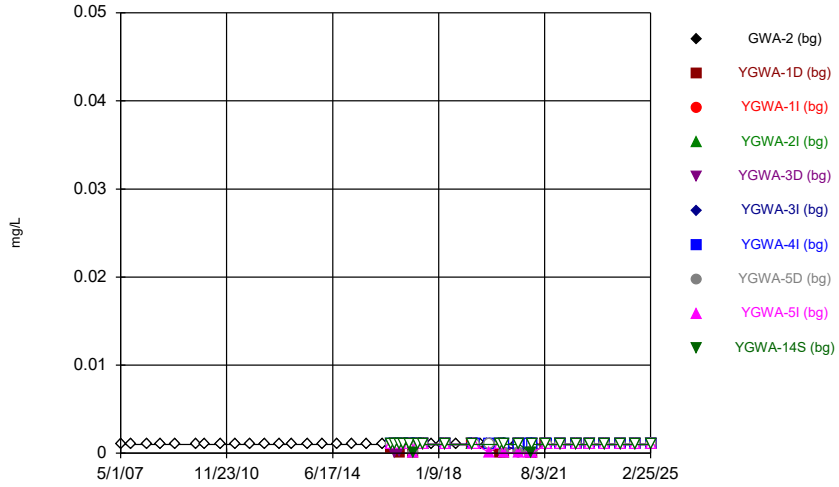
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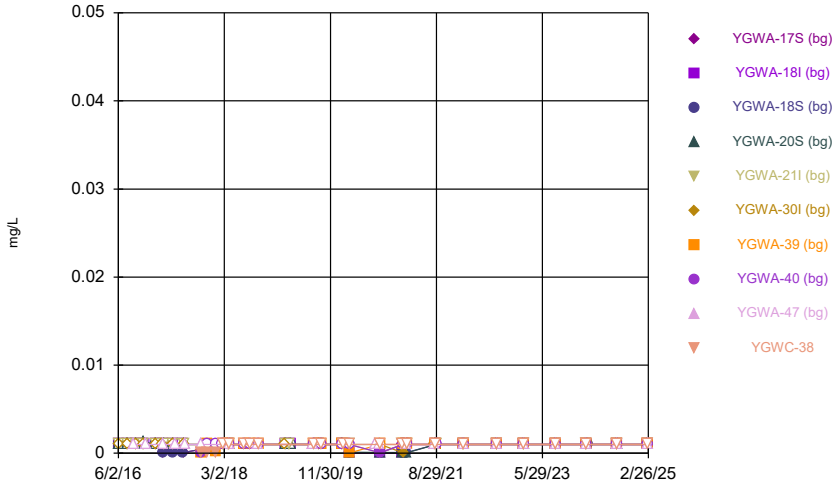
Time Series



Constituent: Lead Analysis Run 7/7/2025 12:15 PM
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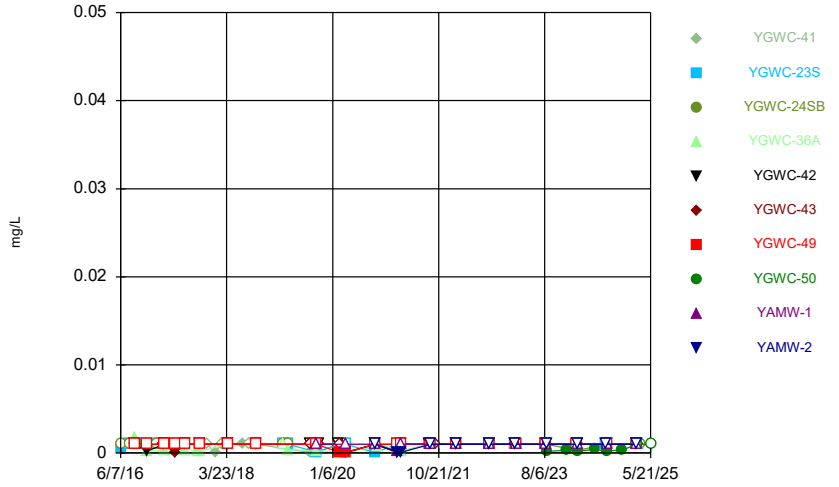
Time Series



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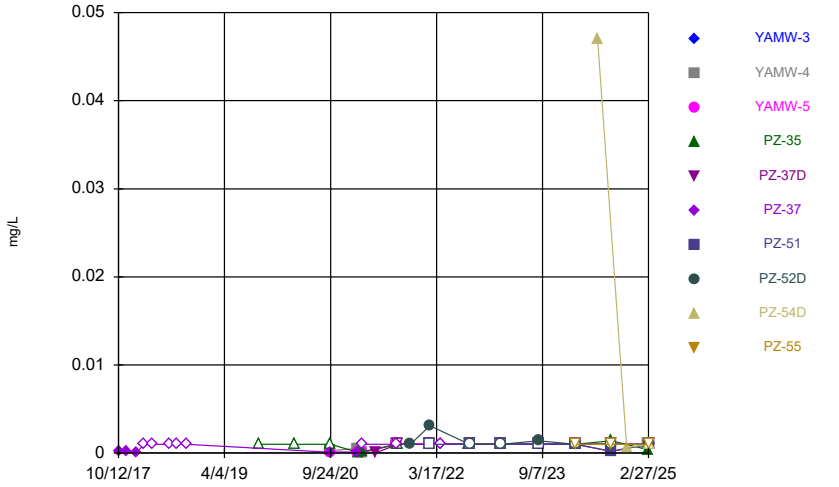
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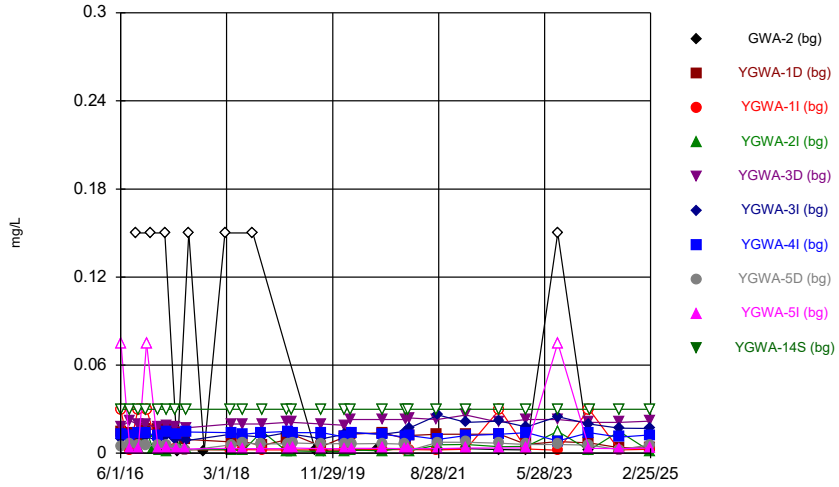
Time Series



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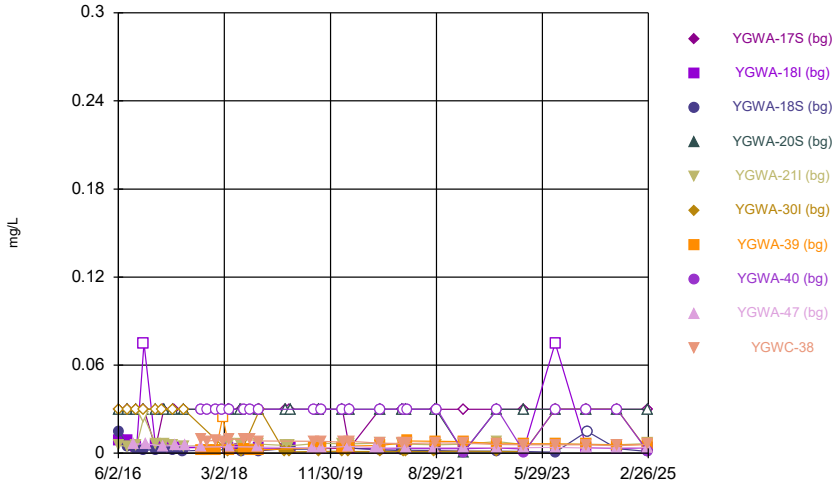
Time Series



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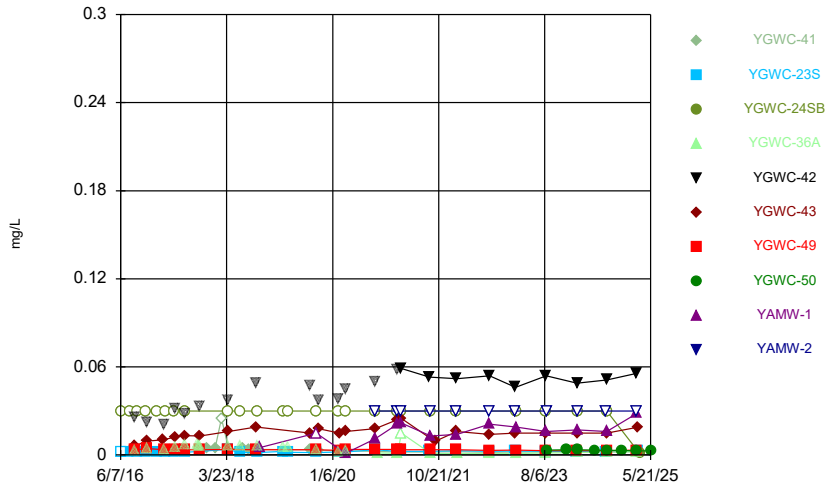
Time Series



Constituent: Lithium Analysis Run 7/7/2025 12:16 PM
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Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG
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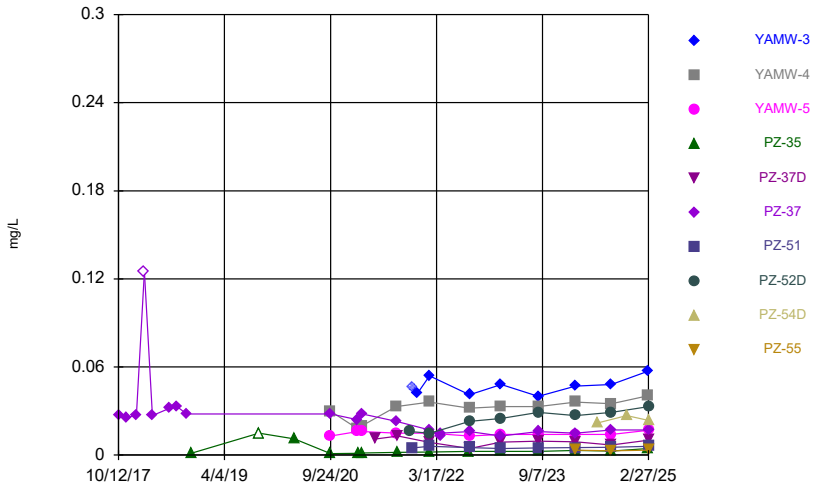
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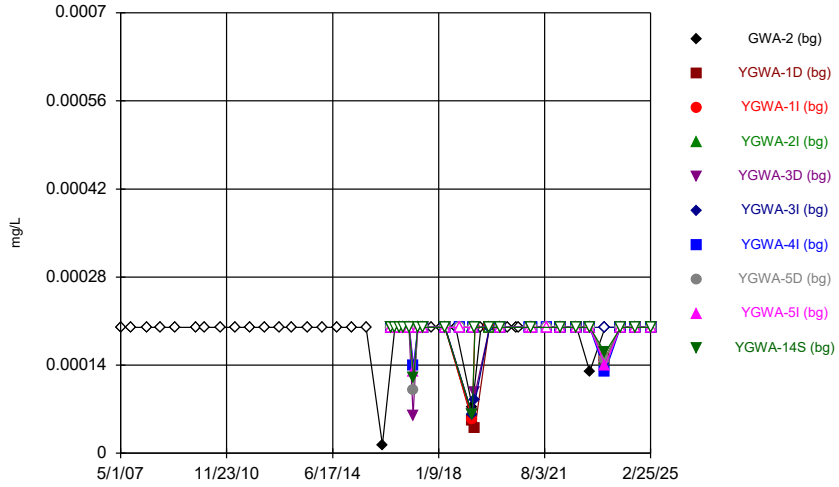
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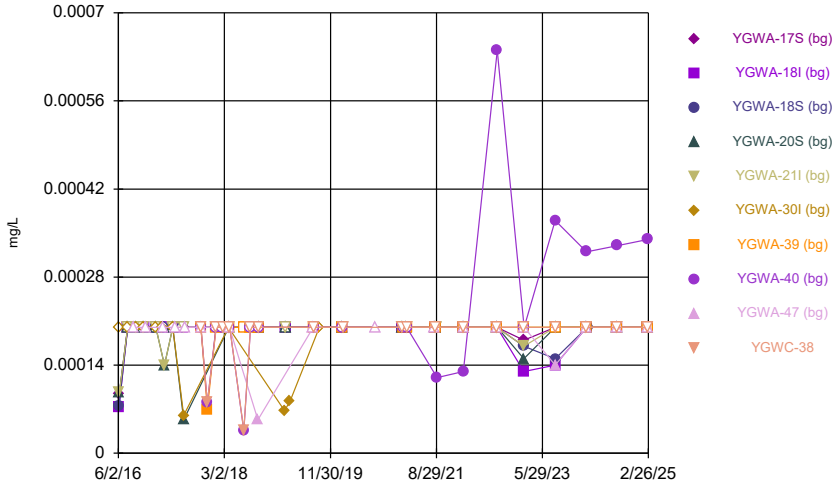
Time Series



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Plant Yates Client: Southern Company Data: Yates AMA-R6

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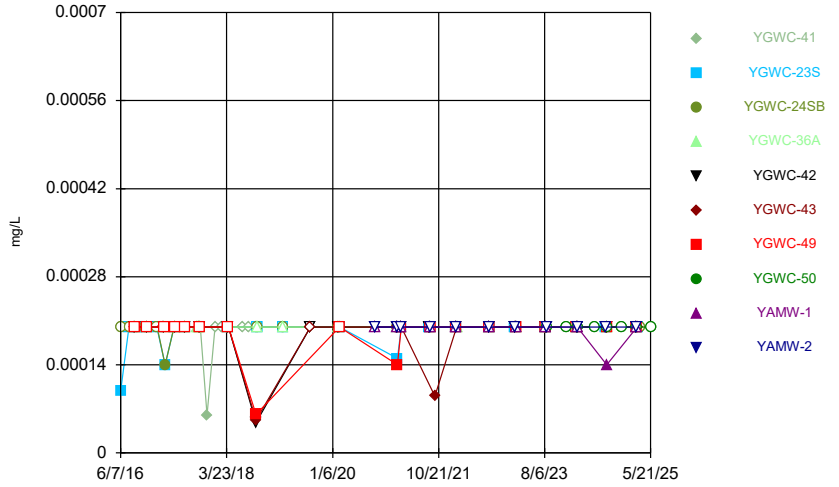
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Constituent: Mercury Analysis Run 7/7/2025 12:16 PM
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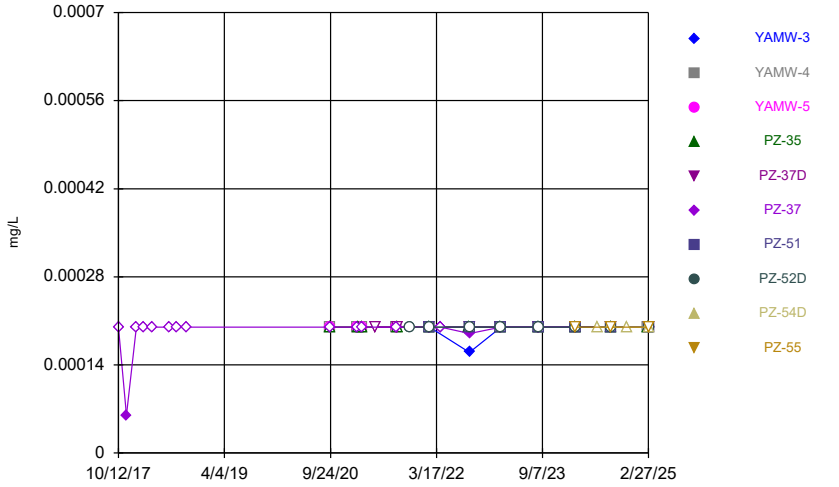
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Constituent: Mercury Analysis Run 7/7/2025 12:16 PM
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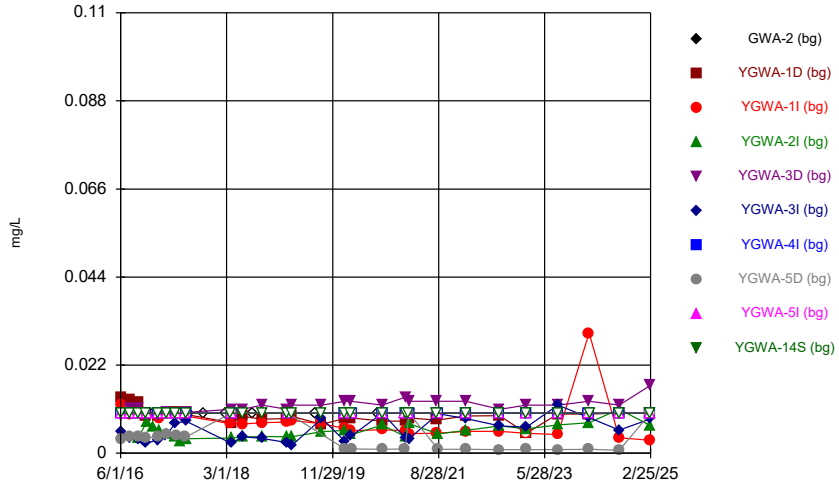
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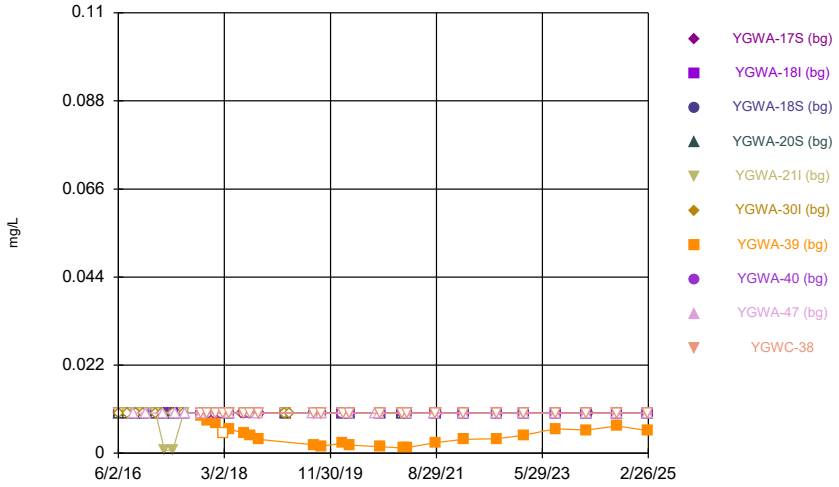
Time Series



Constituent: Molybdenum Analysis Run 7/7/2025 12:16 PM
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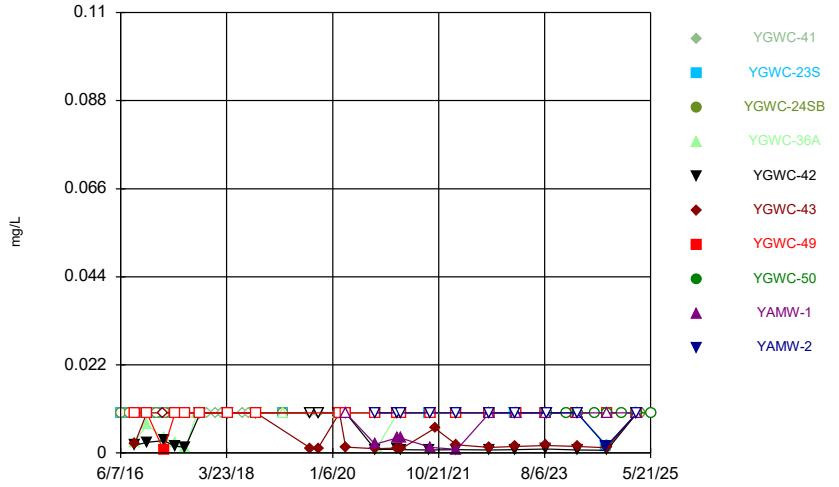
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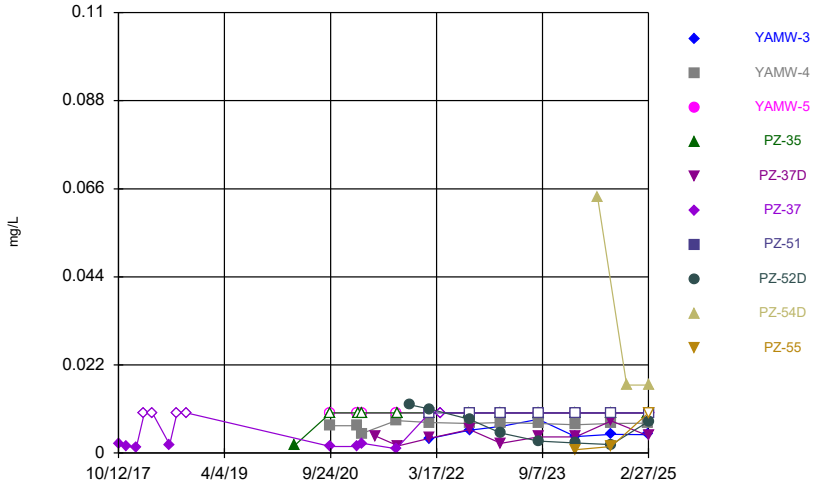
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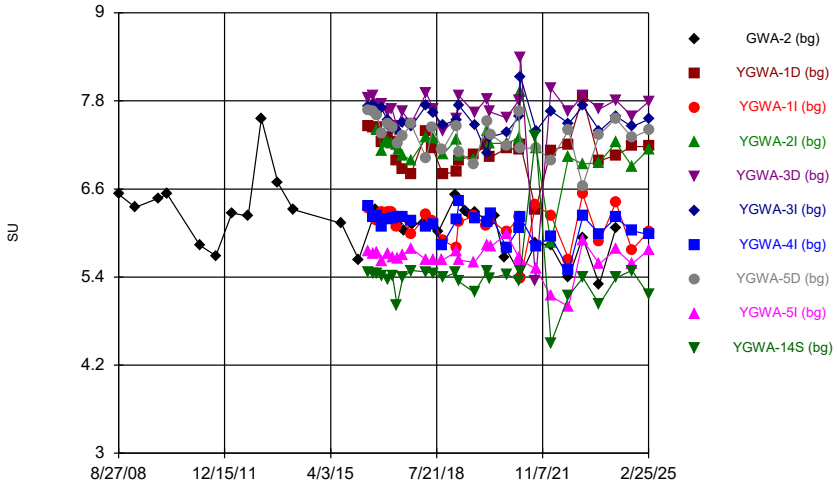
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Time Series

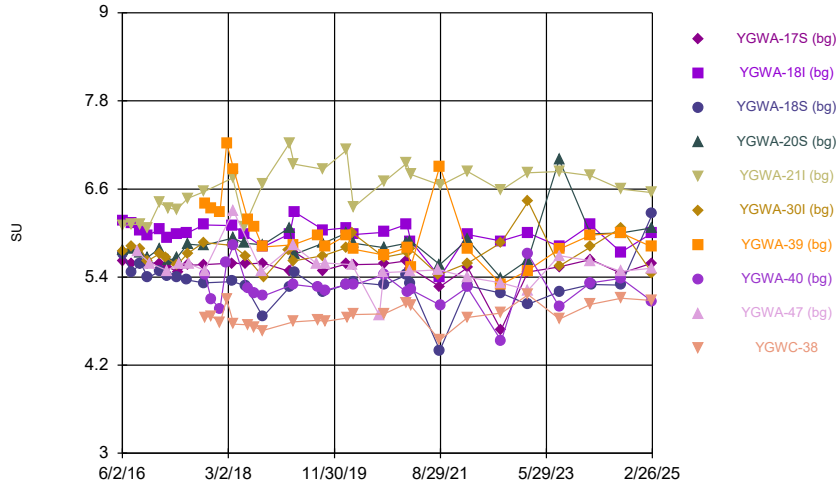


Constituent: pH, Field Analysis Run 7/7/2025 12:16 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

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Time Series

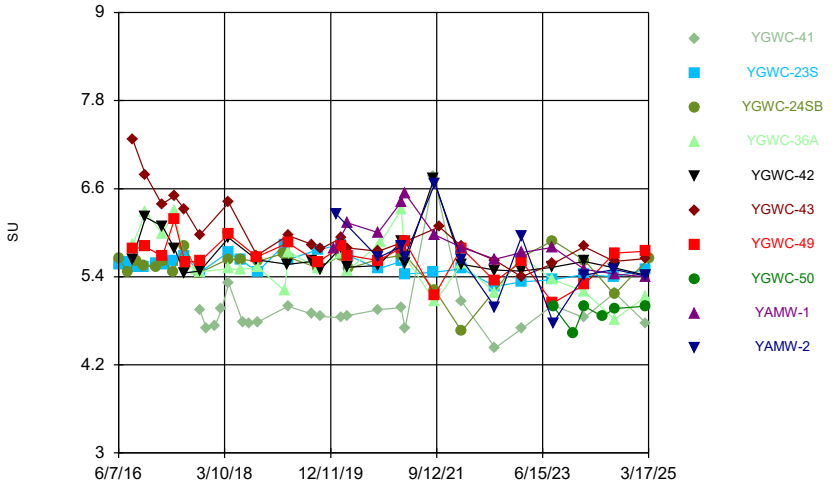


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Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG

Time Series

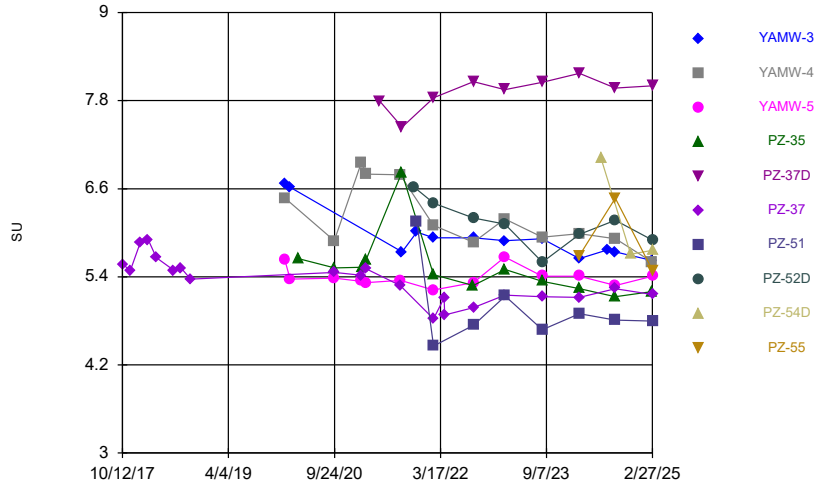


Constituent: pH, Field Analysis Run 7/7/2025 12:16 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG

Time Series

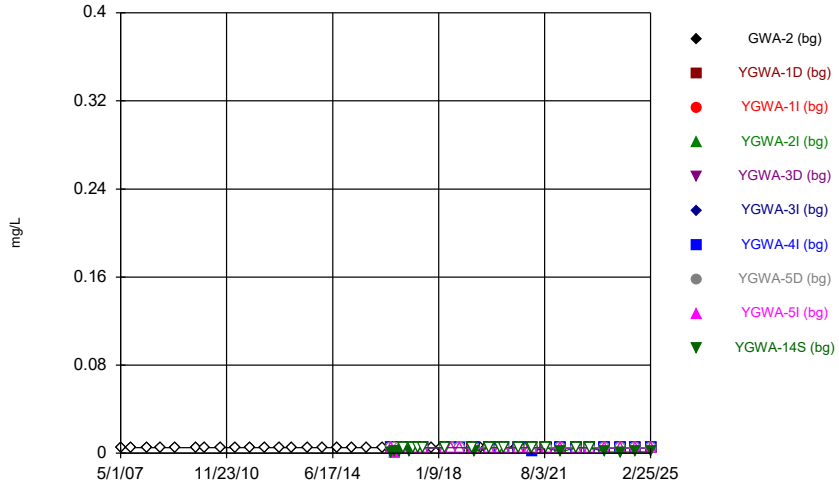


Constituent: pH, Field Analysis Run 7/7/2025 12:16 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

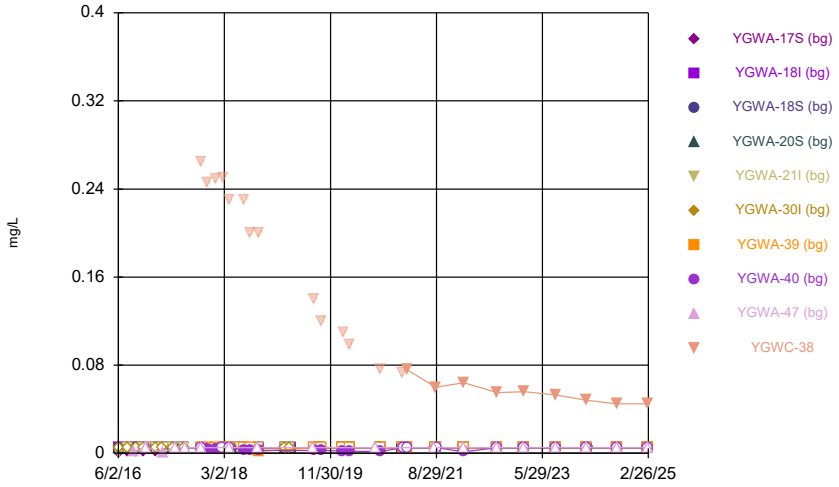
Time Series



Constituent: Selenium Analysis Run 7/7/2025 12:16 PM
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

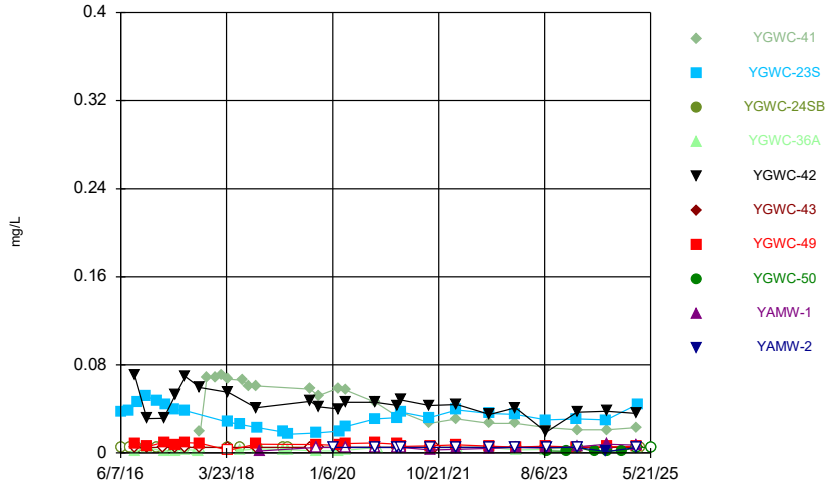
Time Series



Constituent: Selenium Analysis Run 7/7/2025 12:16 PM
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

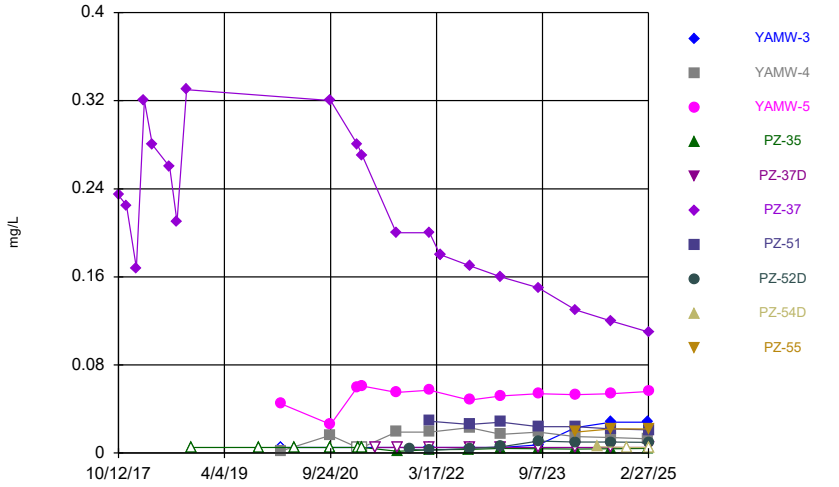
Time Series



Constituent: Selenium Analysis Run 7/7/2025 12:16 PM
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

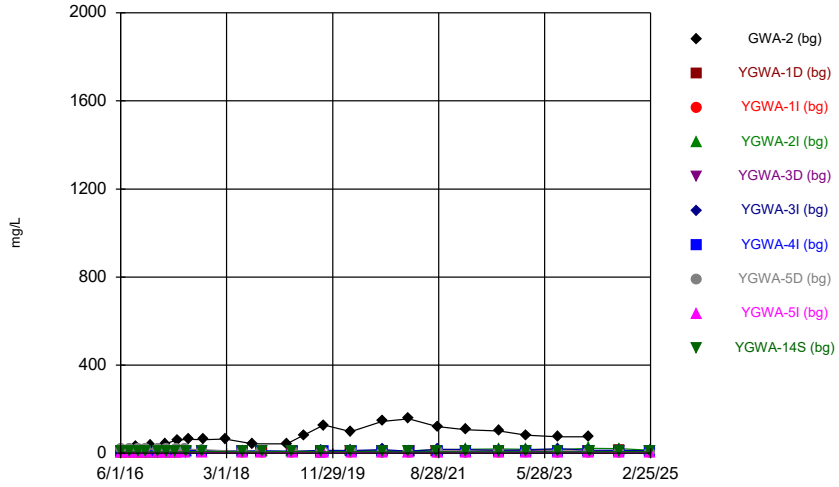
Time Series



Constituent: Selenium Analysis Run 7/7/2025 12:16 PM
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

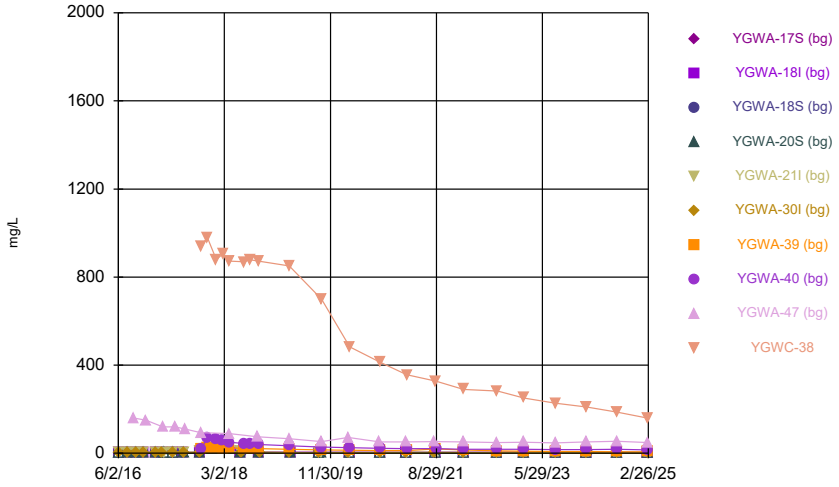
Time Series



Constituent: Sulfate Analysis Run 7/7/2025 12:16 PM
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

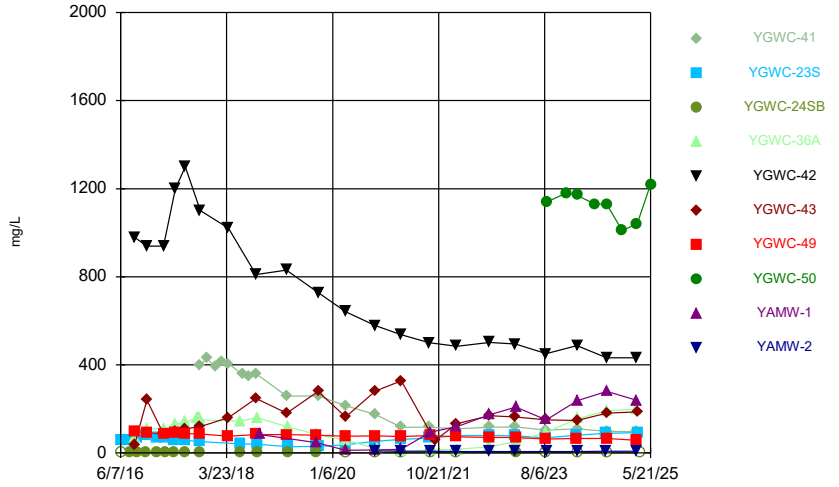
Time Series



Constituent: Sulfate Analysis Run 7/7/2025 12:16 PM
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

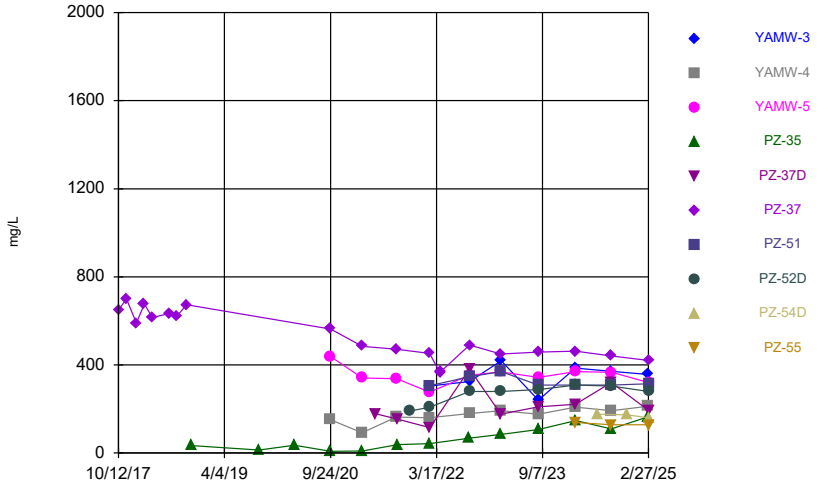
Time Series



Constituent: Sulfate Analysis Run 7/7/2025 12:16 PM
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG

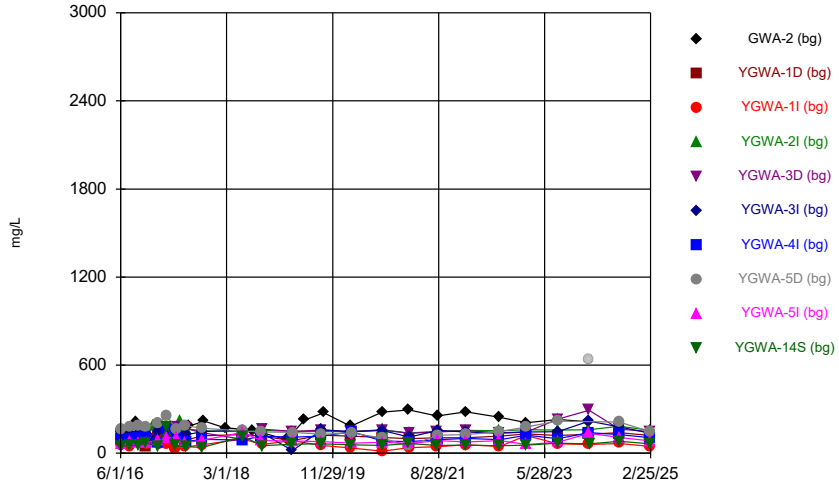
Time Series



Constituent: Sulfate Analysis Run 7/7/2025 12:16 PM
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG

Time Series



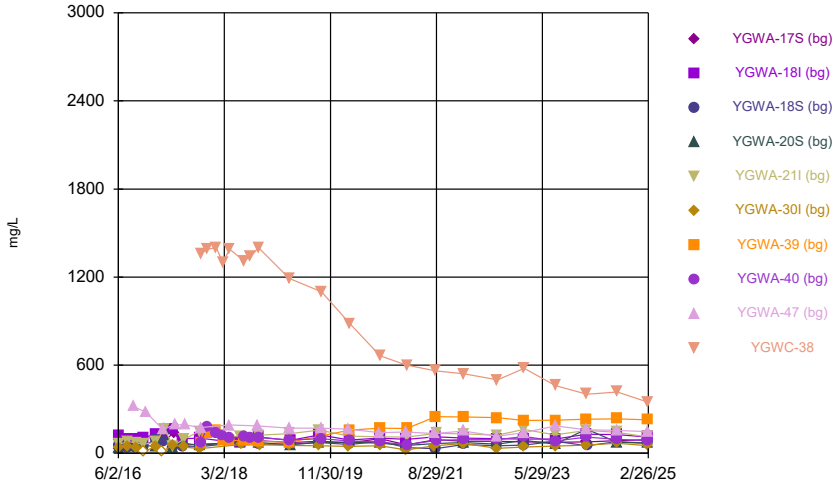
Constituent: TDS Analysis Run 7/7/2025 12:16 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series

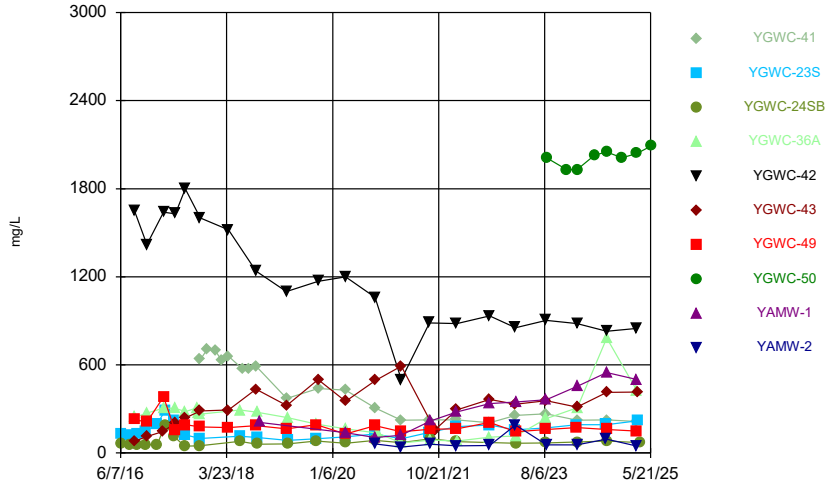


Constituent: TDS Analysis Run 7/7/2025 12:16 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG

Time Series

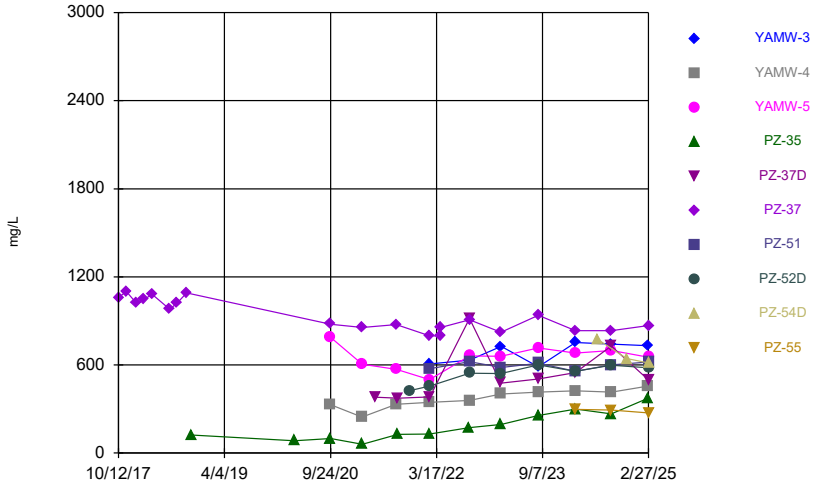


Constituent: TDS Analysis Run 7/7/2025 12:16 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG

Time Series

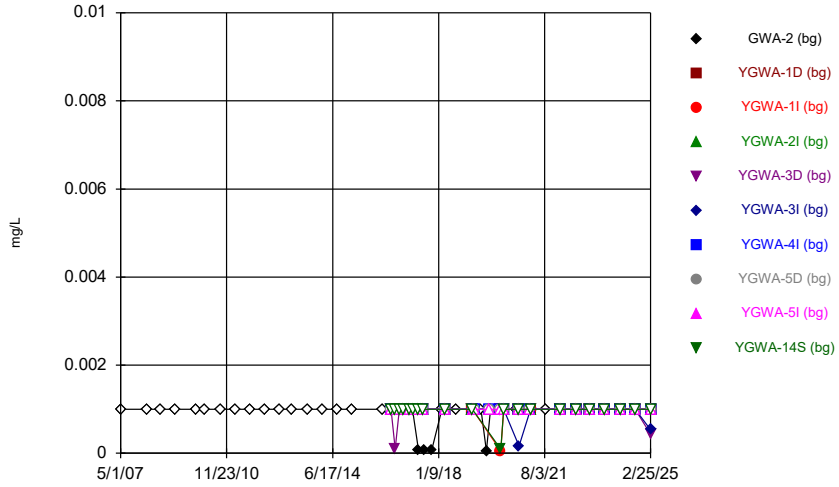


Constituent: TDS Analysis Run 7/7/2025 12:16 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

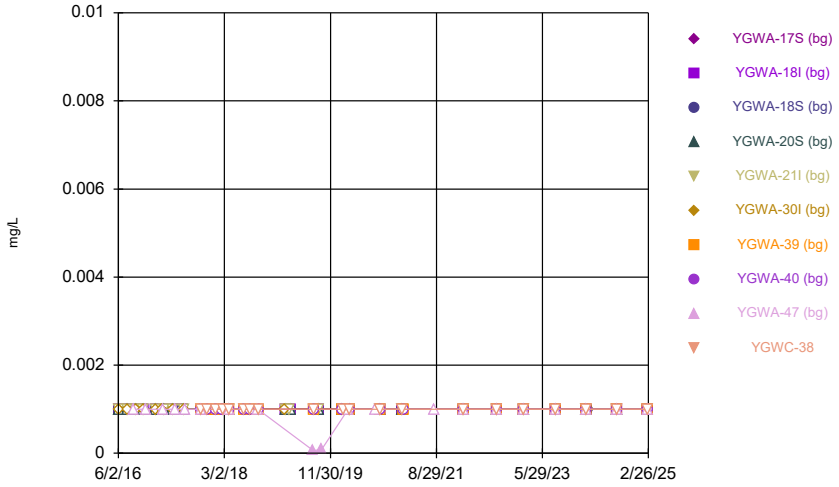
Time Series



Constituent: Thallium Analysis Run 7/7/2025 12:16 PM
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

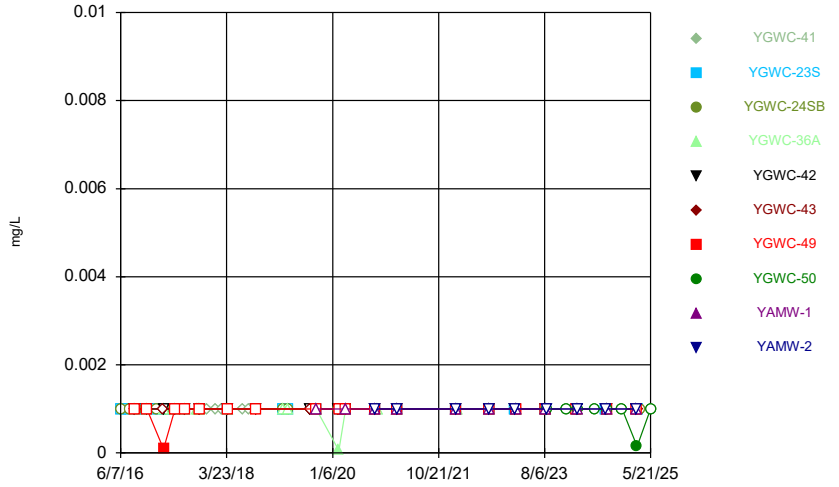
Time Series



Constituent: Thallium Analysis Run 7/7/2025 12:16 PM
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

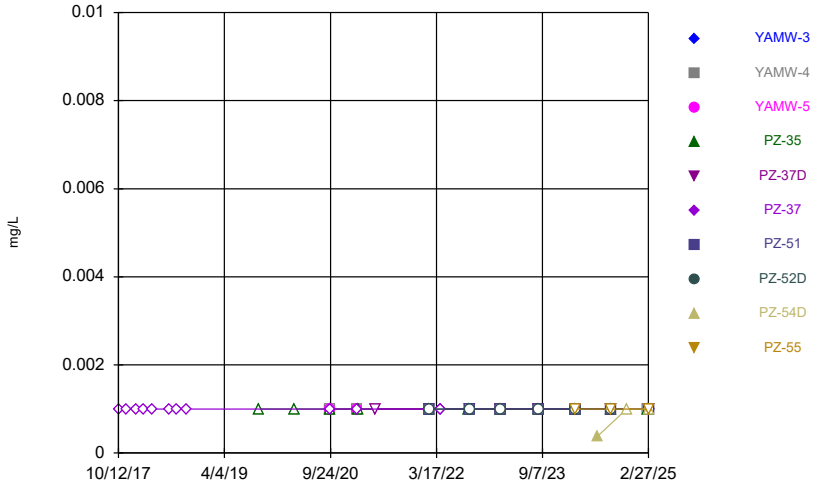
Time Series



Constituent: Thallium Analysis Run 7/7/2025 12:16 PM
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Thallium Analysis Run 7/7/2025 12:16 PM
Plant Yates Client: Southern Company Data: Yates AMA-R6

Time Series

Constituent: Antimony (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
5/1/2007	<0.003								
9/12/2007	<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			<0.003			
6/2/2016					<0.003		<0.003	<0.003	<0.003
7/21/2016	0.0007 (J)								
7/25/2016			0.001 (J)			<0.003			
7/26/2016		0.001 (J)			0.002 (J)		0.0003 (J)	<0.003	<0.003
8/31/2016	<0.003								
9/13/2016		0.001 (J)	<0.003						
9/14/2016				<0.003		<0.003	<0.003	<0.003	<0.003
9/15/2016					0.0027 (J)				
11/1/2016		0.0015 (J)			<0.003	<0.003			
11/2/2016							<0.003	<0.003	
11/4/2016			<0.003	<0.003					<0.003
11/28/2016	0.0014 (J)								
12/15/2016				0.0012 (J)					
1/10/2017									
1/11/2017		<0.003			<0.003	<0.003			
1/12/2017								<0.003	<0.003
1/13/2017							<0.003		
1/16/2017			<0.003	<0.003					
2/22/2017	<0.003								
3/1/2017						<0.003			
3/2/2017		0.0004 (J)	<0.003		0.0008 (J)				
3/3/2017				<0.003					
3/6/2017							<0.003		
3/7/2017								<0.003	<0.003
3/8/2017									
4/26/2017					<0.003	<0.003			
4/27/2017		0.0004 (J)	0.0017 (J)						
4/28/2017				0.0015 (J)					
5/1/2017							<0.003	<0.003	
5/2/2017									<0.003
5/8/2017	<0.003								
5/26/2017				0.0005 (J)					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/27/2017		<0.003	<0.003					<0.003	<0.003
6/28/2017				<0.003	<0.003	<0.003			
6/29/2017							<0.003		
6/30/2017									
7/17/2017	<0.003								
10/16/2017	<0.003								
2/19/2018	<0.003								
3/27/2018			<0.003						
3/28/2018				<0.003	<0.003	<0.003			
3/29/2018		<0.003					<0.003	<0.003	<0.003
8/6/2018	<0.003								
2/25/2019	<0.003								
2/26/2019									
2/27/2019		<0.003	<0.003	<0.003	<0.003	<0.003			
3/4/2019							<0.003	<0.003	<0.003
4/3/2019							<0.003	<0.003	<0.003
6/12/2019	<0.003								
8/19/2019	<0.003								
9/24/2019								<0.003	<0.003
9/25/2019							<0.003		
10/8/2019	<0.003								
2/10/2020		0.00088 (J)	<0.003						
2/11/2020				0.00036 (J)		<0.003			
2/12/2020					<0.003		<0.003	<0.003	<0.003
3/17/2020	<0.003								
3/18/2020			0.0004 (J)						
3/19/2020		<0.003		0.0003 (J)	0.00064 (J)	<0.003			
3/24/2020								<0.003	<0.003
3/25/2020							<0.003		
8/26/2020	0.00042 (J)								
9/22/2020	0.00044 (J)						<0.003	<0.003	<0.003
9/23/2020		<0.003	<0.003	<0.003	<0.003	<0.003			
9/25/2020									
2/8/2021								<0.003	<0.003
2/9/2021							<0.003		
2/10/2021				0.0013 (J)	<0.003	<0.003			
2/12/2021		<0.003	<0.003						
3/2/2021	<0.003							<0.003	<0.003
3/3/2021		<0.003	<0.003	<0.003	<0.003	<0.003	<0.003		
8/19/2021		<0.003	<0.003		<0.003				
8/20/2021	<0.003								
8/26/2021							<0.003	<0.003	<0.003
8/27/2021				<0.003		<0.003			
2/8/2022	<0.003								
2/9/2022		<0.003	<0.003	<0.003	0.0018 (J)	<0.003			
2/10/2022								<0.003	<0.003
2/11/2022							<0.003		
8/30/2022	<0.003	<0.003		<0.003				<0.003	<0.003
8/31/2022			<0.003		<0.003	<0.003	<0.003		
2/7/2023	<0.003	<0.003	<0.003	<0.003				<0.003	
2/8/2023					<0.003	<0.003			
2/9/2023							<0.003		<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
8/15/2023	<0.003	<0.003	<0.003	<0.003	<0.003		<0.003	<0.003	<0.003
8/16/2023						<0.003			
2/20/2024	0.0026 (J)	0.0023 (J)	<0.003	0.00067 (J)	<0.003	<0.003	0.00061 (J)	<0.003	<0.003
2/23/2024									
8/20/2024		0.00088 (J)	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
2/25/2025		<0.003	<0.003	<0.003	0.00072 (J)	<0.003	<0.003	<0.003	<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (bg)
5/1/2007	
9/12/2007	
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	
6/2/2016	<0.003
7/21/2016	
7/25/2016	
7/26/2016	0.0005 (J)
8/31/2016	
9/13/2016	
9/14/2016	
9/15/2016	<0.003
11/1/2016	
11/2/2016	<0.003
11/4/2016	
11/28/2016	
12/15/2016	
1/10/2017	<0.003
1/11/2017	
1/12/2017	
1/13/2017	
1/16/2017	
2/22/2017	
3/1/2017	
3/2/2017	
3/3/2017	
3/6/2017	
3/7/2017	
3/8/2017	<0.003
4/26/2017	<0.003
4/27/2017	
4/28/2017	
5/1/2017	
5/2/2017	
5/8/2017	
5/26/2017	

Time Series

Constituent: Antimony (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (bg)
6/27/2017	
6/28/2017	
6/29/2017	
6/30/2017	<0.003
7/17/2017	
10/16/2017	
2/19/2018	
3/27/2018	<0.003
3/28/2018	
3/29/2018	
8/6/2018	
2/25/2019	
2/26/2019	<0.003
2/27/2019	
3/4/2019	
4/3/2019	
6/12/2019	
8/19/2019	
9/24/2019	
9/25/2019	
10/8/2019	
2/10/2020	
2/11/2020	
2/12/2020	<0.003
3/17/2020	
3/18/2020	<0.003
3/19/2020	
3/24/2020	
3/25/2020	
8/26/2020	
9/22/2020	
9/23/2020	
9/25/2020	<0.003
2/8/2021	
2/9/2021	
2/10/2021	<0.003
2/12/2021	
3/2/2021	<0.003
3/3/2021	
8/19/2021	<0.003
8/20/2021	
8/26/2021	
8/27/2021	
2/8/2022	
2/9/2022	
2/10/2022	<0.003
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 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (bg)
8/15/2023	<0.003
8/16/2023	
2/20/2024	
2/23/2024	<0.003
8/20/2024	<0.003
2/25/2025	<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)
6/2/2016						<0.003			
6/6/2016		<0.003	<0.003						
6/7/2016	<0.003			<0.003	<0.003				
7/25/2016						0.0007 (J)			
7/27/2016	<0.003	0.0005 (J)	<0.003	<0.003					
7/28/2016					<0.003				
8/30/2016									0.0028 (J)
9/16/2016	<0.003		<0.003						
9/19/2016		<0.003		<0.003	0.001 (J)	<0.003			
11/1/2016						<0.003			
11/2/2016				<0.003					
11/3/2016	<0.003	<0.003	<0.003		<0.003				
11/14/2016									<0.003
1/11/2017	<0.003	<0.003	<0.003						
1/13/2017				<0.003	<0.003				
1/16/2017						<0.003			
2/21/2017						<0.003			
2/24/2017									<0.003
3/1/2017		<0.003	<0.003						
3/2/2017	<0.003								
3/6/2017				<0.003	0.0005 (J)				
4/26/2017		<0.003	<0.003	<0.003	<0.003	<0.003			
5/2/2017	<0.003								
5/8/2017									0.0004 (J)
6/28/2017		<0.003	<0.003						
6/29/2017	<0.003			<0.003	<0.003				
6/30/2017						<0.003			
7/11/2017									0.0006 (J)
10/10/2017									<0.003
10/11/2017							0.0006 (J)		
10/12/2017								<0.003	
11/20/2017							<0.003	<0.003	
1/10/2018								<0.003	
1/11/2018							<0.003		
1/12/2018									
2/19/2018								<0.003	
2/20/2018							<0.003		
3/27/2018						<0.003			
3/28/2018	<0.003	<0.003	<0.003						
3/29/2018				<0.003	<0.003				
4/2/2018									<0.003
4/3/2018							<0.003	<0.003	
6/28/2018							<0.003	<0.003	
8/7/2018							<0.003	<0.003	
9/19/2018									<0.003
9/24/2018							<0.003	<0.003	
2/26/2019						<0.003			
3/5/2019	<0.003		<0.003	<0.003	0.0011 (J)				
3/6/2019		<0.003							
4/2/2019	<0.003				0.0011 (J)				
4/3/2019		<0.003	<0.003	<0.003					
8/20/2019									<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)
8/21/2019							<0.003	<0.003	
8/22/2019									
9/24/2019					0.0035				
9/25/2019	<0.003			<0.003					
9/26/2019		0.00056 (J)	<0.003						
2/11/2020	<0.003	<0.003	<0.003						
2/12/2020				<0.003	0.0015 (J)	<0.003	<0.003	<0.003	
2/14/2020									
3/19/2020						<0.003			
3/24/2020	<0.003	<0.003	<0.003	<0.003	0.0017 (J)			<0.003	
3/25/2020							0.0014 (J)		
8/27/2020									0.00048 (J)
9/22/2020									<0.003
9/23/2020	<0.003	<0.003	<0.003						
9/24/2020				<0.003	0.0047	<0.003	<0.003	<0.003	
9/25/2020									
2/9/2021	<0.003	<0.003	<0.003	0.00032 (J)	0.0013 (J)				
2/10/2021							<0.003	<0.003	
2/11/2021						<0.003			
3/1/2021						<0.003			0.00048 (J)
3/3/2021	<0.003	<0.003	0.00067 (J)	<0.003					
3/4/2021					0.0014 (J)		<0.003	<0.003	
8/19/2021						<0.003			<0.003
8/26/2021			<0.003				<0.003		
8/27/2021	<0.003	<0.003		<0.003					
9/1/2021					<0.003				
9/3/2021								<0.003	
2/8/2022							<0.003	<0.003	<0.003
2/9/2022	<0.003	<0.003	<0.003	<0.003	<0.003				
2/10/2022									
2/11/2022						<0.003			
8/30/2022	<0.003	<0.003	<0.003		0.0046				
8/31/2022				<0.003		<0.003	<0.003	<0.003	<0.003
9/1/2022									
2/7/2023	0.0013 (J)	<0.003	<0.003	<0.003	<0.003		<0.003		
2/8/2023						<0.003		<0.003	<0.003
8/15/2023	<0.003	<0.003	<0.003	<0.003	<0.003		<0.003	<0.003	<0.003
8/16/2023						<0.003			
2/20/2024	<0.003	<0.003		<0.003	0.0013 (J)	<0.003	<0.003	<0.003	<0.003
2/22/2024									
2/23/2024			<0.003						
8/20/2024	<0.003	<0.003		<0.003	<0.003	<0.003			<0.003
8/21/2024			<0.003				<0.003	<0.003	
8/23/2024									
2/25/2025	<0.003	<0.003	<0.003	<0.003	0.00054 (J)	<0.003	<0.003	<0.003	<0.003
2/26/2025									

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38
6/2/2016	
6/6/2016	
6/7/2016	
7/25/2016	
7/27/2016	
7/28/2016	
8/30/2016	
9/16/2016	
9/19/2016	
11/1/2016	
11/2/2016	
11/3/2016	
11/14/2016	
1/11/2017	
1/13/2017	
1/16/2017	
2/21/2017	
2/24/2017	
3/1/2017	
3/2/2017	
3/6/2017	
4/26/2017	
5/2/2017	
5/8/2017	
6/28/2017	
6/29/2017	
6/30/2017	
7/11/2017	
10/10/2017	
10/11/2017	
10/12/2017	<0.003
11/20/2017	<0.003
1/10/2018	
1/11/2018	
1/12/2018	<0.003
2/19/2018	
2/20/2018	<0.003
3/27/2018	
3/28/2018	
3/29/2018	
4/2/2018	
4/3/2018	<0.003
6/28/2018	<0.003
8/7/2018	0.0015 (J)
9/19/2018	
9/24/2018	<0.003
2/26/2019	
3/5/2019	
3/6/2019	
4/2/2019	
4/3/2019	
8/20/2019	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38
8/21/2019	
8/22/2019	<0.003
9/24/2019	
9/25/2019	
9/26/2019	
2/11/2020	
2/12/2020	
2/14/2020	0.00031 (J)
3/19/2020	
3/24/2020	
3/25/2020	0.00063 (J)
8/27/2020	
9/22/2020	
9/23/2020	
9/24/2020	
9/25/2020	0.00061 (J)
2/9/2021	0.00031 (J)
2/10/2021	
2/11/2021	
3/1/2021	
3/3/2021	
3/4/2021	<0.003
8/19/2021	
8/26/2021	<0.003
8/27/2021	
9/1/2021	
9/3/2021	
2/8/2022	
2/9/2022	
2/10/2022	<0.003
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	<0.003
2/7/2023	
2/8/2023	<0.003
8/15/2023	
8/16/2023	<0.003
2/20/2024	
2/22/2024	<0.003
2/23/2024	
8/20/2024	
8/21/2024	
8/23/2024	<0.003
2/25/2025	
2/26/2025	<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-41	YGWC-23S	YGWC-24SB	YGWC-36A	YGWC-42	YGWC-43	YGWC-49	YGWC-50	YAMW-1
6/7/2016		<0.003							
6/8/2016			<0.003						
7/28/2016		<0.003							
8/1/2016			<0.003						
8/30/2016					<0.003				
8/31/2016						<0.003			
9/1/2016							<0.003		
9/2/2016				<0.003					
9/20/2016		<0.003	0.0009 (J)						
11/8/2016		<0.003	<0.003						
11/14/2016				0.0014 (J)					
11/15/2016							<0.003		
11/16/2016					<0.003	<0.003			
1/16/2017		<0.003							
1/17/2017			<0.003						
2/24/2017						<0.003			
2/27/2017					<0.003		0.0011 (J)		
2/28/2017				0.0004 (J)					
3/8/2017			<0.003						
3/9/2017		<0.003							
5/2/2017		<0.003	<0.003						
5/9/2017				<0.003			<0.003		
5/10/2017					<0.003	<0.003			
7/7/2017			<0.003						
7/10/2017		<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								
2/19/2018	<0.003								
3/30/2018		<0.003	<0.003	<0.003					
4/3/2018	<0.003								
4/4/2018					<0.003	<0.003	<0.003		
6/27/2018	<0.003								
8/7/2018	<0.003								
9/20/2018					<0.003	<0.003	<0.003		
9/24/2018	<0.003								
3/5/2019			<0.003						
3/6/2019		<0.003		0.0011 (J)					
4/4/2019		<0.003	<0.003	0.0041					
8/21/2019						<0.003			
8/22/2019	<0.003				<0.003				
9/26/2019			<0.003	0.0065			<0.003		<0.003
9/27/2019		0.00029 (J)							
12/9/2019				0.0014 (J)					
2/13/2020			<0.003						
2/14/2020	<0.003			0.0027 (J)	<0.003				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-41	YGWC-23S	YGWC-24SB	YGWC-36A	YGWC-42	YGWC-43	YGWC-49	YGWC-50	YAMW-1
2/17/2020		<0.003				<0.003	<0.003		
3/25/2020	<0.003			0.0011 (J)	<0.003	0.00031 (J)	0.00053 (J)		<0.003
3/26/2020		<0.003	<0.003						
9/23/2020			<0.003						
9/24/2020		0.00085 (J)			<0.003		<0.003		<0.003
9/25/2020	<0.003					<0.003			
10/7/2020				<0.003					
2/9/2021		0.00052 (J)	<0.003			<0.003	<0.003		0.00037 (J)
2/10/2021	0.0014 (J)			0.028	0.00053 (J)				
3/3/2021			<0.003						0.025
3/4/2021	<0.003	<0.003		0.0015 (J)	<0.003	<0.003	<0.003		
8/25/2021		<0.003			<0.003				
8/26/2021	<0.003								
9/1/2021			<0.003				<0.003		0.0024 (J)
9/3/2021				0.0016 (J)					
9/27/2021						<0.003			
2/8/2022	<0.003					<0.003	<0.003		
2/10/2022		<0.003	<0.003		<0.003				<0.003
2/11/2022				0.0023 (J)					
8/31/2022							<0.003		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			
2/9/2023				<0.003			<0.003		<0.003
2/10/2023			<0.003						
8/16/2023	<0.003	<0.003	<0.003	<0.003	<0.003	0.0026 (J)	<0.003		<0.003
8/17/2023								<0.003	
12/20/2023								<0.003	
2/21/2024		<0.003					<0.003		
2/22/2024	<0.003				<0.003	<0.003		0.00076 (J)	
2/23/2024			<0.003	<0.003					0.0023 (J)
6/10/2024								0.0034	
8/21/2024		0.00058 (J)							
8/22/2024			<0.003	0.0012 (J)	<0.003	<0.003	<0.003		<0.003
8/23/2024	<0.003							0.00078 (J)	
11/26/2024								0.00092 (J)	
2/26/2025	<0.003			<0.003	<0.003		<0.003	0.00062 (J)	<0.003
2/27/2025		<0.003				<0.003			
3/17/2025			<0.003						
5/21/2025								<0.003	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-2
6/7/2016	
6/8/2016	
7/28/2016	
8/1/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/20/2016	
11/8/2016	
11/14/2016	
11/15/2016	
11/16/2016	
1/16/2017	
1/17/2017	
2/24/2017	
2/27/2017	
2/28/2017	
3/8/2017	
3/9/2017	
5/2/2017	
5/9/2017	
5/10/2017	
7/7/2017	
7/10/2017	
7/11/2017	
7/13/2017	
9/22/2017	
9/29/2017	
10/6/2017	
10/11/2017	
10/12/2017	
11/21/2017	
1/11/2018	
2/19/2018	
3/30/2018	
4/3/2018	
4/4/2018	
6/27/2018	
8/7/2018	
9/20/2018	
9/24/2018	
3/5/2019	
3/6/2019	
4/4/2019	
8/21/2019	
8/22/2019	
9/26/2019	
9/27/2019	
12/9/2019	
2/13/2020	
2/14/2020	

Time Series

Constituent: Antimony (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-2
2/17/2020	
3/25/2020	
3/26/2020	
9/23/2020	<0.003
9/24/2020	
9/25/2020	
10/7/2020	
2/9/2021	<0.003
2/10/2021	
3/3/2021	<0.003
3/4/2021	
8/25/2021	
8/26/2021	
9/1/2021	<0.003
9/3/2021	
9/27/2021	
2/8/2022	
2/10/2022	<0.003
2/11/2022	
8/31/2022	
9/1/2022	<0.003
2/8/2023	<0.003
2/9/2023	
2/10/2023	
8/16/2023	
8/17/2023	<0.003
12/20/2023	
2/21/2024	
2/22/2024	<0.003
2/23/2024	
6/10/2024	
8/21/2024	<0.003
8/22/2024	
8/23/2024	
11/26/2024	
2/26/2025	<0.003
2/27/2025	
3/17/2025	
5/21/2025	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-3	YAMW-4	YAMW-5	PZ-35	PZ-37D	PZ-37	PZ-51	PZ-52D	PZ-54D
10/12/2017						<0.003			
11/21/2017						<0.003			
1/11/2018						<0.003			
2/20/2018						<0.003			
4/3/2018						<0.003			
6/29/2018						<0.003			
8/6/2018						<0.003			
9/24/2018						<0.003			
9/26/2019				<0.003					
3/25/2020				<0.003					
9/23/2020		0.00065 (J)							
9/24/2020			0.00033 (J)	<0.003					
9/25/2020						0.0014 (J)			
2/9/2021		0.0011 (J)	<0.003			0.00035 (J)			
2/10/2021				<0.003					
3/3/2021		0.00062 (J)							
3/4/2021			<0.003	0.00039 (J)		<0.003			
5/13/2021					0.00052				
8/25/2021		<0.003				<0.003			
8/26/2021			<0.003						
9/1/2021				<0.003					
9/3/2021					<0.003				
11/4/2021								<0.003	
2/10/2022	<0.003	<0.003	<0.003	<0.003		<0.003	<0.003		
2/11/2022					<0.003			<0.003	
4/4/2022						<0.003			
4/7/2022						<0.003			
8/31/2022				<0.003					
9/1/2022	<0.003	<0.003	<0.003		<0.003	0.00091 (J)	<0.003	<0.003	
2/8/2023		<0.003	<0.003		0.0015 (J)	<0.003		<0.003	
2/9/2023	<0.003			<0.003			<0.003		
8/16/2023	<0.003	<0.003	<0.003	<0.003	<0.003		<0.003		
8/17/2023						<0.003		<0.003	
2/21/2024	<0.003				<0.003	<0.003		<0.003	
2/22/2024		<0.003	<0.003				<0.003		
2/23/2024				<0.003					
6/12/2024									0.0013 (J)
8/21/2024					0.0013 (J)	0.0085		0.00081 (J)	
8/22/2024	<0.003			<0.003			<0.003		
8/23/2024		0.0013 (J)	<0.003						
11/7/2024									0.00082 (J)
2/25/2025				<0.003					
2/26/2025	<0.003	<0.003							
2/27/2025			<0.003		<0.003	0.001 (J)	<0.003	0.016	<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	PZ-55
10/12/2017	
11/21/2017	
1/11/2018	
2/20/2018	
4/3/2018	
6/29/2018	
8/6/2018	
9/24/2018	
9/26/2019	
3/25/2020	
9/23/2020	
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	
3/3/2021	
3/4/2021	
5/13/2021	
8/25/2021	
8/26/2021	
9/1/2021	
9/3/2021	
11/4/2021	
2/10/2022	
2/11/2022	
4/4/2022	
4/7/2022	
8/31/2022	
9/1/2022	
2/8/2023	
2/9/2023	
8/16/2023	
8/17/2023	
2/21/2024	
2/22/2024	<0.003
2/23/2024	
6/12/2024	
8/21/2024	<0.003
8/22/2024	
8/23/2024	
11/7/2024	
2/25/2025	
2/26/2025	
2/27/2025	<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
5/1/2007	<0.005								
9/12/2007	<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			<0.005			
6/2/2016					<0.005		<0.005	0.00071 (J)	<0.005
7/21/2016	<0.005								
7/25/2016			<0.005			<0.005			
7/26/2016		0.0016 (J)			<0.005		<0.005	0.001 (J)	<0.005
8/31/2016	<0.005								
9/13/2016		<0.005	<0.005						
9/14/2016				<0.005		<0.005	<0.005	<0.005	<0.005
9/15/2016					<0.005				
11/1/2016		<0.005			<0.005	<0.005			
11/2/2016							<0.005	<0.005	
11/4/2016			<0.005	0.0017 (J)					<0.005
11/28/2016	<0.005								
12/15/2016				0.0023 (J)					
1/10/2017									
1/11/2017		0.0017 (J)			<0.005	<0.005			
1/12/2017								<0.005	<0.005
1/13/2017							<0.005		
1/16/2017			<0.005	0.0018 (J)					
2/22/2017	<0.005								
3/1/2017						0.0004 (J)			
3/2/2017		0.0014 (J)	<0.005		<0.005				
3/3/2017				0.0016 (J)					
3/6/2017							<0.005		
3/7/2017								0.0012 (J)	<0.005
3/8/2017									
4/26/2017					0.0009 (J)	0.0014 (J)			
4/27/2017		0.0018 (J)	<0.005						
4/28/2017				0.002 (J)					
5/1/2017							<0.005	0.001 (J)	
5/2/2017									0.0006 (J)
5/8/2017	<0.005								
5/26/2017				0.0005 (J)					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/27/2017		0.0018 (J)	<0.005					0.0019 (J)	<0.005
6/28/2017				0.0016 (J)	0.0007 (J)	0.0011 (J)			
6/29/2017							<0.005		
6/30/2017									
7/17/2017	<0.005								
10/16/2017	<0.005								
2/19/2018	<0.005								
3/27/2018			<0.005						
3/28/2018				0.0013 (J)	<0.005	<0.005			
3/29/2018		0.0017 (J)					<0.005	0.0006 (J)	<0.005
6/5/2018		0.0013 (J)							
6/6/2018			<0.005					0.0013 (J)	
6/7/2018				0.00082 (J)	<0.005		0.00059 (J)		<0.005
6/8/2018						<0.005			
8/6/2018	<0.005								
9/26/2018							<0.005	0.0014 (J)	<0.005
10/1/2018		0.0016 (J)	<0.005	0.0011 (J)	<0.005	<0.005			
2/25/2019	<0.005								
2/26/2019									
2/27/2019		0.0015 (J)	<0.005	0.001 (J)	<0.005	<0.005			
3/4/2019							<0.005	<0.005	<0.005
3/28/2019		0.00072 (J)	<0.005						
3/29/2019				0.00063 (J)					
4/1/2019					<0.005	<0.005			
4/3/2019							<0.005	<0.005	<0.005
6/12/2019	0.00038 (J)								
8/19/2019	0.00095 (J)								
9/24/2019		0.0014 (J)	<0.005	<0.005				0.00043 (J)	<0.005
9/25/2019					<0.005	<0.005	<0.005		
10/8/2019	<0.005								
2/10/2020		0.0026 (J)	0.0005 (J)						
2/11/2020				0.0044 (J)		0.0041 (J)			
2/12/2020					0.0038 (J)		<0.005	0.0046 (J)	0.002 (J)
3/17/2020	<0.005								
3/18/2020			<0.005						
3/19/2020		0.00095 (J)		0.00066 (J)	<0.005	<0.005			
3/24/2020								0.00065 (J)	<0.005
3/25/2020							<0.005		
8/26/2020	<0.005								
9/22/2020	<0.005						<0.005	0.001 (J)	<0.005
9/23/2020		0.0011 (J)	<0.005	0.001 (J)	<0.005	<0.005			
9/25/2020									
2/8/2021								<0.005	<0.005
2/9/2021							<0.005		
2/10/2021				<0.005	0.00094 (J)	0.00078 (J)			
2/12/2021		<0.005	<0.005						
3/2/2021	<0.005							<0.005	<0.005
3/3/2021		<0.005	<0.005	0.00098 (J)	<0.005	<0.005	<0.005		
8/19/2021		<0.005	<0.005		<0.005				
8/20/2021	<0.005								
8/26/2021							<0.005	0.0016 (J)	<0.005
8/27/2021				<0.005		<0.005			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
2/8/2022	0.0033 (J)								
2/9/2022		0.0031 (J)	0.0033 (J)	0.0037 (J)	0.002 (J)	0.0018 (J)			
2/10/2022								0.004 (J)	0.0016 (J)
2/11/2022							0.0014 (J)		
8/30/2022	0.0024 (J)	<0.005		0.0027 (J)				0.0031 (J)	<0.005
8/31/2022			<0.005		0.0028 (J)	<0.005	<0.005		
2/7/2023	<0.005	<0.005	<0.005	<0.005				0.003 (J)	
2/8/2023					0.003 (J)	0.0024 (J)			
2/9/2023							<0.005		<0.005
8/15/2023	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005
8/16/2023						<0.005			
2/20/2024	0.0015 (J)	<0.005	<0.005	0.0019 (J)	0.0027 (J)	0.0013 (J)	<0.005	0.003 (J)	<0.005
2/23/2024									
8/20/2024		0.00099 (J)	<0.005	<0.005	<0.005	<0.005	<0.005	0.0012 (J)	<0.005
2/25/2025		0.0016 (J)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (bg)
5/1/2007	
9/12/2007	
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	
6/2/2016	<0.005
7/21/2016	
7/25/2016	
7/26/2016	<0.005
8/31/2016	
9/13/2016	
9/14/2016	
9/15/2016	<0.005
11/1/2016	
11/2/2016	<0.005
11/4/2016	
11/28/2016	
12/15/2016	
1/10/2017	<0.005
1/11/2017	
1/12/2017	
1/13/2017	
1/16/2017	
2/22/2017	
3/1/2017	
3/2/2017	
3/3/2017	
3/6/2017	
3/7/2017	
3/8/2017	<0.005
4/26/2017	0.0007 (J)
4/27/2017	
4/28/2017	
5/1/2017	
5/2/2017	
5/8/2017	
5/26/2017	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (bg)
6/27/2017	
6/28/2017	
6/29/2017	
6/30/2017	<0.005
7/17/2017	
10/16/2017	
2/19/2018	
3/27/2018	<0.005
3/28/2018	
3/29/2018	
6/5/2018	
6/6/2018	
6/7/2018	
6/8/2018	<0.005
8/6/2018	
9/26/2018	
10/1/2018	<0.005
2/25/2019	
2/26/2019	<0.005
2/27/2019	
3/4/2019	
3/28/2019	
3/29/2019	<0.005
4/1/2019	
4/3/2019	
6/12/2019	
8/19/2019	
9/24/2019	
9/25/2019	<0.005
10/8/2019	
2/10/2020	
2/11/2020	
2/12/2020	<0.005
3/17/2020	
3/18/2020	<0.005
3/19/2020	
3/24/2020	
3/25/2020	
8/26/2020	
9/22/2020	
9/23/2020	
9/25/2020	<0.005
2/8/2021	
2/9/2021	
2/10/2021	<0.005
2/12/2021	
3/2/2021	<0.005
3/3/2021	
8/19/2021	<0.005
8/20/2021	
8/26/2021	
8/27/2021	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (bg)
2/8/2022	
2/9/2022	
2/10/2022	0.0016 (J)
2/11/2022	
8/30/2022	
8/31/2022	<0.005
2/7/2023	
2/8/2023	<0.005
2/9/2023	
8/15/2023	<0.005
8/16/2023	
2/20/2024	
2/23/2024	<0.005
8/20/2024	<0.005
2/25/2025	<0.005

Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)
6/2/2016						<0.005			
6/6/2016		<0.005	<0.005						
6/7/2016	<0.005			<0.005	<0.005				
7/25/2016						<0.005			
7/27/2016	<0.005	<0.005	<0.005	<0.005					
7/28/2016					<0.005				
8/30/2016									<0.005
9/16/2016	<0.005		<0.005						
9/19/2016		<0.005		<0.005	<0.005	<0.005			
11/1/2016						<0.005			
11/2/2016				<0.005					
11/3/2016	<0.005	<0.005	<0.005		<0.005				
11/14/2016									<0.005
1/11/2017	<0.005	<0.005	<0.005						
1/13/2017				<0.005	<0.005				
1/16/2017						<0.005			
2/21/2017						<0.005			
2/24/2017									<0.005
3/1/2017		<0.005	<0.005						
3/2/2017	<0.005								
3/6/2017				<0.005	0.0017 (J)				
4/26/2017		0.0008 (J)	<0.005	<0.005	0.0017 (J)	<0.005			
5/2/2017	<0.005								
5/8/2017									<0.005
6/28/2017		<0.005	<0.005						
6/29/2017	<0.005			<0.005	0.0012 (J)				
6/30/2017						<0.005			
7/11/2017									<0.005
10/10/2017									0.0007 (J)
10/11/2017							0.0009 (J)		
10/12/2017								<0.005	
11/20/2017							<0.005	<0.005	
1/10/2018								<0.005	
1/11/2018							<0.005		
1/12/2018									
2/19/2018								<0.005	
2/20/2018							<0.005		
3/27/2018						<0.005			
3/28/2018	<0.005	<0.005	0.00061 (J)						
3/29/2018				<0.005	0.0015 (J)				
4/2/2018									<0.005
4/3/2018							<0.005	<0.005	
6/5/2018					0.0013 (J)				
6/6/2018				<0.005					
6/7/2018		0.00066 (J)							
6/11/2018	<0.005		<0.005			<0.005			
6/28/2018							<0.005	<0.005	
8/7/2018							<0.005	<0.005	
9/19/2018									0.00072 (J)
9/24/2018							<0.005	<0.005	
9/25/2018	<0.005	<0.005	<0.005	<0.005	0.0022 (J)				
10/2/2018						<0.005			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)
2/26/2019						<0.005			
3/5/2019	<0.005		<0.005	<0.005	0.0013 (J)				
3/6/2019		<0.005							
4/1/2019						<0.005			
4/2/2019	<0.005				0.00096 (J)				
4/3/2019		<0.005	<0.005	<0.005					
8/20/2019									<0.005
8/21/2019							0.00058 (J)	<0.005	
8/22/2019									
9/24/2019					0.0026 (J)				
9/25/2019	<0.005			<0.005		<0.005			
9/26/2019		<0.005	<0.005						
10/8/2019									<0.005
10/9/2019							0.00063 (J)	<0.005	
2/11/2020	0.0022 (J)	0.0014 (J)	0.0026 (J)						
2/12/2020				<0.005	0.0025 (J)	0.0032 (J)	0.00058 (J)	0.0034 (J)	
2/14/2020									
3/17/2020									<0.005
3/19/2020						<0.005			
3/24/2020	<0.005	<0.005	<0.005	<0.005	0.0013 (J)			<0.005	
3/25/2020							0.0012 (J)		
8/27/2020									<0.005
9/22/2020									<0.005
9/23/2020	<0.005	<0.005	<0.005						
9/24/2020				<0.005	0.0014 (J)	<0.005	<0.005	<0.005	
9/25/2020									
2/9/2021	<0.005	<0.005	<0.005	<0.005	0.001 (J)				
2/10/2021							<0.005	<0.005	
2/11/2021						<0.005			
3/1/2021						<0.005			<0.005
3/3/2021	<0.005	<0.005	<0.005	<0.005					
3/4/2021					0.00078 (J)		<0.005	<0.005	
8/19/2021						<0.005			<0.005
8/26/2021			<0.005				<0.005		
8/27/2021	<0.005	<0.005		<0.005					
9/1/2021					<0.005				
9/3/2021								<0.005	
2/8/2022							0.0034 (J)	0.003 (J)	0.0027 (J)
2/9/2022	0.0024 (J)	0.0022 (J)	0.0024 (J)	0.0021 (J)	0.0036 (J)				
2/10/2022									
2/11/2022						0.0014 (J)			
8/30/2022	<0.005	<0.005	<0.005		0.0022 (J)				
8/31/2022				<0.005		<0.005	0.0029 (J)	<0.005	<0.005
9/1/2022									
2/7/2023	<0.005	<0.005	<0.005	<0.005	0.0028 (J)		0.0029 (J)		
2/8/2023						<0.005		<0.005	<0.005
8/15/2023	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005
8/16/2023						<0.005			
2/20/2024	<0.005	<0.005		<0.005	<0.005	<0.005	0.002 (J)	0.0012 (J)	<0.005
2/22/2024									
2/23/2024			<0.005						
8/20/2024	<0.005	<0.005		<0.005	<0.005	<0.005			<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)
8/21/2024			<0.005				0.0027 (J)	0.0014 (J)	
8/23/2024									
2/25/2025	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/26/2025									

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38
6/2/2016	
6/6/2016	
6/7/2016	
7/25/2016	
7/27/2016	
7/28/2016	
8/30/2016	
9/16/2016	
9/19/2016	
11/1/2016	
11/2/2016	
11/3/2016	
11/14/2016	
1/11/2017	
1/13/2017	
1/16/2017	
2/21/2017	
2/24/2017	
3/1/2017	
3/2/2017	
3/6/2017	
4/26/2017	
5/2/2017	
5/8/2017	
6/28/2017	
6/29/2017	
6/30/2017	
7/11/2017	
10/10/2017	
10/11/2017	
10/12/2017	0.0023 (J)
11/20/2017	0.0008 (J)
1/10/2018	
1/11/2018	
1/12/2018	0.001 (J)
2/19/2018	
2/20/2018	0.00096 (J)
3/27/2018	
3/28/2018	
3/29/2018	
4/2/2018	
4/3/2018	0.0015 (J)
6/5/2018	
6/6/2018	
6/7/2018	
6/11/2018	
6/28/2018	0.0017 (J)
8/7/2018	0.00072 (J)
9/19/2018	
9/24/2018	0.0017 (J)
9/25/2018	
10/2/2018	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38
2/26/2019	
3/5/2019	
3/6/2019	
4/1/2019	
4/2/2019	
4/3/2019	
8/20/2019	
8/21/2019	
8/22/2019	0.00055 (J)
9/24/2019	
9/25/2019	
9/26/2019	
10/8/2019	
10/9/2019	0.00057 (J)
2/11/2020	
2/12/2020	
2/14/2020	0.0021 (J)
3/17/2020	
3/19/2020	
3/24/2020	
3/25/2020	0.00068 (J)
8/27/2020	
9/22/2020	
9/23/2020	
9/24/2020	
9/25/2020	<0.005
2/9/2021	0.00098 (J)
2/10/2021	
2/11/2021	
3/1/2021	
3/3/2021	
3/4/2021	<0.005
8/19/2021	
8/26/2021	0.0013 (J)
8/27/2021	
9/1/2021	
9/3/2021	
2/8/2022	
2/9/2022	
2/10/2022	0.0017 (J)
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	<0.005
2/7/2023	
2/8/2023	<0.005
8/15/2023	
8/16/2023	<0.005
2/20/2024	
2/22/2024	<0.005
2/23/2024	
8/20/2024	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38
8/21/2024	
8/23/2024	<0.005
2/25/2025	
2/26/2025	<0.005

Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-41	YGWC-23S	YGWC-24SB	YGWC-36A	YGWC-42	YGWC-43	YGWC-49	YGWC-50	YAMW-1
6/7/2016		<0.005							
6/8/2016			<0.005						
7/28/2016		<0.005							
8/1/2016			<0.005						
8/30/2016					0.0023 (J)				
8/31/2016						<0.005			
9/1/2016							<0.005		
9/2/2016				<0.005					
9/20/2016		<0.005	<0.005						
11/8/2016		<0.005	<0.005						
11/14/2016				<0.005					
11/15/2016							<0.005		
11/16/2016					0.0017 (J)	<0.005			
1/16/2017		<0.005							
1/17/2017			<0.005						
2/24/2017						<0.005			
2/27/2017					0.002 (J)		<0.005		
2/28/2017				0.0006 (J)					
3/8/2017			<0.005						
3/9/2017		<0.005							
5/2/2017		0.0004 (J)	0.0005 (J)						
5/9/2017				0.0006 (J)			<0.005		
5/10/2017					0.0022 (J)	<0.005			
7/7/2017			<0.005						
7/10/2017		<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	0.0011 (J)				0.0031 (J)	<0.005			
11/21/2017	<0.005								
1/11/2018	<0.005								
2/19/2018	<0.005								
3/30/2018		<0.005	<0.005	<0.005					
4/3/2018	0.00072 (J)								
4/4/2018					0.0023 (J)	<0.005	<0.005		
6/12/2018		<0.005	<0.005						
6/13/2018				0.00066 (J)					
6/27/2018	0.00062 (J)								
8/7/2018	<0.005								
9/20/2018					0.0018 (J)	0.00099 (J)	0.001 (J)		
9/24/2018	0.001 (J)								
9/26/2018			<0.005	<0.005					
9/27/2018		<0.005							
10/16/2018									<0.005
3/5/2019			<0.005						
3/6/2019		<0.005		<0.005					
4/4/2019		<0.005	<0.005	<0.005					
8/21/2019						<0.005			
8/22/2019	0.00036 (J)				0.00089 (J)				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-41	YGWC-23S	YGWC-24SB	YGWC-36A	YGWC-42	YGWC-43	YGWC-49	YGWC-50	YAMW-1
9/26/2019			<0.005	<0.005			<0.005		<0.005
9/27/2019		<0.005							
10/9/2019	0.00052 (J)				0.00078 (J)	0.00051 (J)			
2/13/2020			<0.005						
2/14/2020	0.0014 (J)			0.0026 (J)	0.0033 (J)				
2/17/2020		0.0019 (J)				<0.005	0.0028 (J)		
3/25/2020	0.001 (J)			<0.005	0.0013 (J)	0.0007 (J)	0.00086 (J)		<0.005
3/26/2020		0.0012 (J)	0.0015 (J)						
9/23/2020			<0.005						
9/24/2020		<0.005			<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			<0.005	<0.005		<0.005
2/10/2021	<0.005			0.00088 (J)	0.0016 (J)				
3/3/2021			<0.005						<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								
9/1/2021			<0.005				<0.005		<0.005
9/3/2021				<0.005					
9/27/2021						<0.005			
2/8/2022	0.0021 (J)					0.0022 (J)	<0.005		
2/10/2022		0.0025 (J)	0.0024 (J)		0.0026 (J)				0.0023 (J)
2/11/2022				0.0014 (J)					
8/31/2022							<0.005		<0.005
9/1/2022	<0.005	<0.005		<0.005	<0.005	<0.005			
2/8/2023	0.0027 (J)	<0.005			0.0025 (J)	0.0033 (J)			
2/9/2023				0.0047 (J)			<0.005		0.0034 (J)
2/10/2023			0.0035 (J)						
8/16/2023	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005
8/17/2023								<0.005	
12/20/2023								0.0019 (J)	
2/21/2024		<0.005					<0.005		
2/22/2024	<0.005				0.0014 (J)	<0.005		0.0016 (J)	
2/23/2024			<0.005	<0.005					<0.005
6/10/2024								0.0014 (J)	
8/21/2024		<0.005							
8/22/2024			<0.005	<0.005	0.0021 (J)	0.00095 (J)	<0.005		0.00093 (J)
8/23/2024	<0.005							0.0044 (J)	
11/26/2024								0.0045 (J)	
2/26/2025	<0.005			<0.005	<0.005		<0.005	<0.005	<0.005
2/27/2025		<0.005				<0.005			
3/17/2025			<0.005						
5/21/2025								<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-2
6/7/2016	
6/8/2016	
7/28/2016	
8/1/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/20/2016	
11/8/2016	
11/14/2016	
11/15/2016	
11/16/2016	
1/16/2017	
1/17/2017	
2/24/2017	
2/27/2017	
2/28/2017	
3/8/2017	
3/9/2017	
5/2/2017	
5/9/2017	
5/10/2017	
7/7/2017	
7/10/2017	
7/11/2017	
7/13/2017	
9/22/2017	
9/29/2017	
10/6/2017	
10/11/2017	
10/12/2017	
11/21/2017	
1/11/2018	
2/19/2018	
3/30/2018	
4/3/2018	
4/4/2018	
6/12/2018	
6/13/2018	
6/27/2018	
8/7/2018	
9/20/2018	
9/24/2018	
9/26/2018	
9/27/2018	
10/16/2018	
3/5/2019	
3/6/2019	
4/4/2019	
8/21/2019	
8/22/2019	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-2
9/26/2019	
9/27/2019	
10/9/2019	
2/13/2020	
2/14/2020	
2/17/2020	
3/25/2020	
3/26/2020	
9/23/2020	<0.005
9/24/2020	
9/25/2020	
10/7/2020	
2/9/2021	<0.005
2/10/2021	
3/3/2021	<0.005
3/4/2021	
8/25/2021	
8/26/2021	
9/1/2021	<0.005
9/3/2021	
9/27/2021	
2/8/2022	
2/10/2022	<0.005
2/11/2022	
8/31/2022	
9/1/2022	<0.005
2/8/2023	<0.005
2/9/2023	
2/10/2023	
8/16/2023	
8/17/2023	<0.005
12/20/2023	
2/21/2024	
2/22/2024	<0.005
2/23/2024	
6/10/2024	
8/21/2024	<0.005
8/22/2024	
8/23/2024	
11/26/2024	
2/26/2025	<0.005
2/27/2025	
3/17/2025	
5/21/2025	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-3	YAMW-4	YAMW-5	PZ-35	PZ-37D	PZ-37	PZ-51	PZ-52D	PZ-54D
10/12/2017						0.0014 (J)			
11/21/2017						0.0008 (J)			
1/11/2018						0.0006 (J)			
2/20/2018						<0.005			
4/3/2018						0.0012 (J)			
6/29/2018						0.0011 (J)			
8/6/2018						<0.005			
9/24/2018						0.00094 (J)			
10/16/2018				0.00069 (J)					
9/26/2019				<0.005					
3/25/2020				<0.005					
9/23/2020		<0.005							
9/24/2020			0.0015 (J)	<0.005					
9/25/2020						<0.005			
2/9/2021		0.001 (J)	0.00095 (J)			0.0015 (J)			
2/10/2021				0.00096 (J)					
3/3/2021		0.00079 (J)							
3/4/2021			<0.005	<0.005		<0.005			
5/13/2021					<0.005				
8/25/2021		<0.005				0.0014 (J)			
8/26/2021			<0.005						
9/1/2021				<0.005					
9/3/2021					<0.005				
11/4/2021								0.0019 (J)	
2/10/2022	0.0038 (J)	0.0026 (J)	0.0024 (J)	0.0018 (J)		0.0017 (J)	0.0013 (J)		
2/11/2022					<0.005			0.0014 (J)	
4/4/2022						0.0034 (J)			
4/7/2022						0.0035 (J)			
8/31/2022				<0.005					
9/1/2022	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	
2/8/2023		0.0037 (J)	0.0038 (J)		<0.005	<0.005		0.0032 (J)	
2/9/2023	<0.005			0.0028 (J)			<0.005		
8/16/2023	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005		
8/17/2023						<0.005		<0.005	
2/21/2024	0.0015 (J)				0.0014 (J)	0.0023 (J)		0.0013 (J)	
2/22/2024		0.001 (J)	0.0011 (J)				<0.005		
2/23/2024				<0.005					
6/12/2024									0.012
8/21/2024					0.0038 (J)	0.0037 (J)		0.0055	
8/22/2024	0.0022 (J)			0.0014 (J)			0.0017 (J)		
8/23/2024		0.0024 (J)	0.0025 (J)						
11/7/2024									0.0015 (J)
2/25/2025				<0.005					
2/26/2025	<0.005	<0.005							
2/27/2025			<0.005		<0.005	<0.005	<0.005	<0.005	0.0021 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	PZ-55
10/12/2017	
11/21/2017	
1/11/2018	
2/20/2018	
4/3/2018	
6/29/2018	
8/6/2018	
9/24/2018	
10/16/2018	
9/26/2019	
3/25/2020	
9/23/2020	
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	
3/3/2021	
3/4/2021	
5/13/2021	
8/25/2021	
8/26/2021	
9/1/2021	
9/3/2021	
11/4/2021	
2/10/2022	
2/11/2022	
4/4/2022	
4/7/2022	
8/31/2022	
9/1/2022	
2/8/2023	
2/9/2023	
8/16/2023	
8/17/2023	
2/21/2024	
2/22/2024	<0.005
2/23/2024	
6/12/2024	
8/21/2024	<0.005
8/22/2024	
8/23/2024	
11/7/2024	
2/25/2025	
2/26/2025	
2/27/2025	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
5/1/2007	0.032								
9/12/2007	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			0.0038			
6/2/2016					0.01		0.013	0.0084	0.019
7/21/2016	0.0457								
7/25/2016			0.0091 (J)			0.0031 (J)			
7/26/2016		0.006 (J)			0.0088 (J)		0.0158	0.01	0.0179
8/31/2016	0.0542								
9/13/2016		0.0084 (J)	0.008 (J)						
9/14/2016				0.0037 (J)		0.0027 (J)	0.0143	0.0085 (J)	0.0181
9/15/2016					0.009 (J)				
11/1/2016		0.0062 (J)			0.0079 (J)	0.0027 (J)			
11/2/2016							0.0148	0.0091 (J)	
11/4/2016			0.0067 (J)	0.0059 (J)					0.0165
11/28/2016	0.0529								
12/15/2016				0.0056 (J)					
1/10/2017									
1/11/2017		0.0069 (J)			0.0075 (J)	0.0036 (J)			
1/12/2017								0.0089 (J)	0.0199
1/13/2017							0.0146		
1/16/2017			0.0096 (J)	0.0049 (J)					
2/22/2017	0.0607								
3/1/2017						0.0036 (J)			
3/2/2017		0.0071 (J)	0.0112		0.009 (J)				
3/3/2017				0.0046 (J)					
3/6/2017							0.0141		
3/7/2017								0.009 (J)	0.0196
3/8/2017									
4/26/2017					0.0078 (J)	0.0038 (J)			
4/27/2017		0.0064 (J)	0.0106						
4/28/2017				0.0039 (J)					
5/1/2017							0.0149	0.0083 (J)	
5/2/2017									0.0202
5/8/2017	0.065								
5/26/2017				0.0034 (J)					

Time Series

Constituent: Barium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/27/2017		0.0054 (J)	0.0092 (J)					0.0074 (J)	0.0184
6/28/2017				0.003 (J)	0.0071 (J)	0.004 (J)			
6/29/2017							0.0154		
6/30/2017									
7/17/2017	0.06								
10/16/2017	0.0542								
2/19/2018	0.0533								
3/27/2018			<0.01						
3/28/2018				<0.01	<0.01	<0.01			
3/29/2018		<0.01					0.014	<0.01	0.021
6/5/2018		0.0069 (J)							
6/6/2018			0.0082 (J)					0.008 (J)	
6/7/2018				0.0037 (J)	0.0068 (J)		0.014		0.019
6/8/2018						0.0034 (J)			
8/6/2018	0.044								
9/26/2018							0.016	0.0075 (J)	0.019
10/1/2018		0.0062 (J)	0.0084 (J)	0.0038 (J)	0.0065 (J)	0.0034 (J)			
2/25/2019	0.045								
2/26/2019									
2/27/2019		0.0074 (J)	0.008 (J)	0.0035 (J)	0.0059 (J)	0.0034 (J)			
3/4/2019							0.016	0.0077 (J)	0.019
3/28/2019		0.0082 (J)	0.0082 (J)						
3/29/2019				0.0039 (J)					
4/1/2019					0.0064 (J)	0.003 (J)			
4/3/2019							0.017	0.0087 (J)	0.023
6/12/2019	0.063								
8/19/2019	0.065								
9/24/2019		0.0072 (J)	0.0086 (J)	0.0038 (J)				0.0075 (J)	0.019
9/25/2019					0.0059 (J)	0.005 (J)	0.015		
10/8/2019	0.058								
2/10/2020		0.0066 (J)	0.0091 (J)						
2/11/2020				0.0036 (J)		0.0031 (J)			
2/12/2020					0.0062 (J)		0.012	0.0079 (J)	0.021
3/17/2020	0.047								
3/18/2020			0.0084 (J)						
3/19/2020		0.0076 (J)		0.0036 (J)	0.0072 (J)	0.0029 (J)			
3/24/2020								0.0076 (J)	0.021
3/25/2020							0.016		
8/26/2020	0.044								
9/22/2020	0.045						0.013	0.0076 (J)	0.019
9/23/2020		0.0068 (J)	0.0079 (J)	0.0039 (J)	0.0051 (J)	0.0039 (J)			
9/25/2020									
2/8/2021								0.0079 (J)	0.02
2/9/2021							0.013		
2/10/2021				0.0032 (J)	0.0059 (J)	0.0029 (J)			
2/12/2021		0.0057 (J)	0.009 (J)						
3/2/2021	0.039							0.014	0.019
3/3/2021		0.0068	0.0094	0.0041 (J)	0.0064	0.0031 (J)	0.014		
8/19/2021		0.0065	0.0079		0.0052				
8/20/2021	0.036								
8/26/2021							0.012	0.0092	0.019
8/27/2021				0.003 (J)		0.0039 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
2/8/2022	0.037								
2/9/2022		0.0067	0.0088	0.0029 (J)	0.0051	0.0031 (J)			
2/10/2022								0.0084	0.02
2/11/2022							0.013		
8/30/2022	0.031	0.0066		0.003 (J)				0.0079	0.017
8/31/2022			0.0074		0.0048 (J)	0.003 (J)	0.013		
2/7/2023	0.034	0.14	0.21	0.0026 (J)				0.0075	
2/8/2023					0.0048 (J)	0.0029 (J)			
2/9/2023							0.014		0.019
8/15/2023	0.03	0.0059	0.0078	0.0031 (J)	0.0046 (J)		0.011	0.0074	0.018
8/16/2023						0.0037 (J)			
2/20/2024	0.035	0.0062	0.004 (J)	0.0044 (J)	0.0045 (J)	0.0032 (J)	0.014	0.0078	0.019
2/23/2024									
8/20/2024		0.0061	0.0072	0.0033 (J)	0.0044 (J)	0.0027 (J)	0.012	0.0066	0.018
2/25/2025		0.0071	0.0083	0.0037 (J)	0.0059	0.0036 (J)	0.013	0.0081	0.02

Time Series

Constituent: Barium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (bg)
5/1/2007	
9/12/2007	
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	
6/2/2016	0.0081
7/21/2016	
7/25/2016	
7/26/2016	0.0082 (J)
8/31/2016	
9/13/2016	
9/14/2016	
9/15/2016	0.0087 (J)
11/1/2016	
11/2/2016	0.0082 (J)
11/4/2016	
11/28/2016	
12/15/2016	
1/10/2017	0.0086 (J)
1/11/2017	
1/12/2017	
1/13/2017	
1/16/2017	
2/22/2017	
3/1/2017	
3/2/2017	
3/3/2017	
3/6/2017	
3/7/2017	
3/8/2017	0.0088 (J)
4/26/2017	0.0085 (J)
4/27/2017	
4/28/2017	
5/1/2017	
5/2/2017	
5/8/2017	
5/26/2017	

Time Series

Constituent: Barium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (bg)
6/27/2017	
6/28/2017	
6/29/2017	
6/30/2017	0.0081 (J)
7/17/2017	
10/16/2017	
2/19/2018	
3/27/2018	<0.01
3/28/2018	
3/29/2018	
6/5/2018	
6/6/2018	
6/7/2018	
6/8/2018	0.007 (J)
8/6/2018	
9/26/2018	
10/1/2018	0.007 (J)
2/25/2019	
2/26/2019	0.0067 (J)
2/27/2019	
3/4/2019	
3/28/2019	
3/29/2019	0.0066 (J)
4/1/2019	
4/3/2019	
6/12/2019	
8/19/2019	
9/24/2019	
9/25/2019	0.0071 (J)
10/8/2019	
2/10/2020	
2/11/2020	
2/12/2020	0.007 (J)
3/17/2020	
3/18/2020	0.0076 (J)
3/19/2020	
3/24/2020	
3/25/2020	
8/26/2020	
9/22/2020	
9/23/2020	
9/25/2020	0.0073 (J)
2/8/2021	
2/9/2021	
2/10/2021	0.0078 (J)
2/12/2021	
3/2/2021	0.0076
3/3/2021	
8/19/2021	0.0077
8/20/2021	
8/26/2021	
8/27/2021	

Time Series

Constituent: Barium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (bg)
2/8/2022	
2/9/2022	
2/10/2022	0.0088
2/11/2022	
8/30/2022	
8/31/2022	0.0075
2/7/2023	
2/8/2023	0.0089
2/9/2023	
8/15/2023	0.0079
8/16/2023	
2/20/2024	
2/23/2024	0.0096
8/20/2024	0.0075
2/25/2025	0.0084

Time Series

Constituent: Barium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)
6/2/2016						0.0064			
6/6/2016		0.028	0.019						
6/7/2016	0.012			0.014	0.0058				
7/25/2016						0.0071 (J)			
7/27/2016	0.0126	0.0294	0.0167	0.0141					
7/28/2016					0.0068 (J)				
8/30/2016									0.0413
9/16/2016	0.0127		0.0168						
9/19/2016		0.0247		0.0155	0.0071 (J)	0.0069 (J)			
11/1/2016						0.007 (J)			
11/2/2016				0.0157					
11/3/2016	0.0128	0.0248	0.0159		0.0092 (J)				
11/14/2016									0.0383
1/11/2017	0.0142	0.0266	0.0162						
1/13/2017				0.0158	0.0105				
1/16/2017						0.0071 (J)			
2/21/2017						0.0077 (J)			
2/24/2017									0.0351
3/1/2017		0.0275	0.0195						
3/2/2017	0.0155								
3/6/2017				0.0163	0.0105				
4/26/2017		0.024	0.0182	0.0177	0.011	0.0074 (J)			
5/2/2017	0.0138								
5/8/2017									0.0251
6/28/2017		0.0237	0.018						
6/29/2017	0.0128			0.017	0.0109				
6/30/2017						0.0076 (J)			
7/11/2017									0.0233
10/10/2017									0.0207
10/11/2017							0.0092 (J)		
10/12/2017								0.0328	
11/20/2017							0.0081 (J)	0.0671	
1/10/2018								0.0656	
1/11/2018							0.0077 (J)		
1/12/2018									
2/19/2018								0.06	
2/20/2018							<0.01		
3/27/2018						<0.01			
3/28/2018	0.014	0.024	0.021						
3/29/2018				0.014	<0.01				
4/2/2018									0.022
4/3/2018							<0.01	0.045	
6/5/2018					0.011				
6/6/2018				0.015					
6/7/2018		0.023							
6/11/2018	0.013		0.019			0.007 (J)			
6/28/2018							0.0078 (J)	0.047	
8/7/2018							0.0078 (J)	0.048	
9/19/2018									0.023
9/24/2018							0.0071 (J)	0.042	
9/25/2018	0.014	0.023	0.019	0.015	0.011				
10/2/2018						0.0069 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)
2/26/2019						0.007 (J)			
3/5/2019	0.015		0.02	0.016	0.011				
3/6/2019		0.024							
4/1/2019						0.0072 (J)			
4/2/2019	0.016				0.011				
4/3/2019		0.025	0.017	0.018					
8/20/2019									0.024
8/21/2019							0.015	0.035	
8/22/2019									
9/24/2019					0.011				
9/25/2019	0.015			0.014		0.0066 (J)			
9/26/2019		0.021	0.017						
10/8/2019									0.025
10/9/2019							0.013	0.036	
2/11/2020	0.015	0.022	0.019						
2/12/2020				0.014	0.011	0.0073 (J)	0.011	0.035	
2/14/2020									
3/17/2020									0.035
3/19/2020						0.0074 (J)			
3/24/2020	0.015	0.021	0.017	0.015	0.011			0.033	
3/25/2020							0.014		
8/27/2020									0.027
9/22/2020									0.026
9/23/2020	0.015	0.021	0.016						
9/24/2020				0.015	0.01	0.0062 (J)	0.016	0.028	
9/25/2020									
2/9/2021	0.016	0.023	0.017	0.015	0.011				
2/10/2021							0.027	0.032	
2/11/2021						0.0077 (J)			
3/1/2021						0.007			0.029
3/3/2021	0.017	0.023	0.017	0.015					
3/4/2021					0.011		0.028	0.032	
8/19/2021						0.0071			0.029
8/26/2021			0.015				0.038		
8/27/2021	0.016	0.02		0.013					
9/1/2021					0.0099				
9/3/2021								0.035	
2/8/2022							0.041	0.039	0.03
2/9/2022	0.017	0.021	0.014	0.014	0.011				
2/10/2022									
2/11/2022						0.0077			
8/30/2022	0.017	0.017	0.012		0.0085				
8/31/2022				0.011		0.0068	0.035	0.035	0.029
9/1/2022									
2/7/2023	0.017	0.019	0.012	0.014	0.01		0.03		
2/8/2023						0.0066		0.037	0.031
8/15/2023	0.016	0.02	0.012	0.012	0.0075		0.031	0.034	0.032
8/16/2023						0.0066			
2/20/2024	0.017	0.02		0.013	0.0065	0.0064	0.029	0.033	0.031
2/22/2024									
2/23/2024			0.013						
8/20/2024	0.016	0.019		0.012	0.0083	0.0067			0.031

Time Series

Constituent: Barium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)
8/21/2024			0.015				0.03	0.033	
8/23/2024									
2/25/2025	0.018	0.021	0.014	0.015	0.0077	0.0076	0.031	0.031	0.033
2/26/2025									

Time Series

Constituent: Barium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38
6/2/2016	
6/6/2016	
6/7/2016	
7/25/2016	
7/27/2016	
7/28/2016	
8/30/2016	
9/16/2016	
9/19/2016	
11/1/2016	
11/2/2016	
11/3/2016	
11/14/2016	
1/11/2017	
1/13/2017	
1/16/2017	
2/21/2017	
2/24/2017	
3/1/2017	
3/2/2017	
3/6/2017	
4/26/2017	
5/2/2017	
5/8/2017	
6/28/2017	
6/29/2017	
6/30/2017	
7/11/2017	
10/10/2017	
10/11/2017	
10/12/2017	0.0269
11/20/2017	0.0255
1/10/2018	
1/11/2018	
1/12/2018	0.0236
2/19/2018	
2/20/2018	0.026
3/27/2018	
3/28/2018	
3/29/2018	
4/2/2018	
4/3/2018	0.023
6/5/2018	
6/6/2018	
6/7/2018	
6/11/2018	
6/28/2018	0.024
8/7/2018	0.023
9/19/2018	
9/24/2018	0.021
9/25/2018	
10/2/2018	

Time Series

Constituent: Barium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38
2/26/2019	
3/5/2019	
3/6/2019	
4/1/2019	
4/2/2019	
4/3/2019	
8/20/2019	
8/21/2019	
8/22/2019	0.019
9/24/2019	
9/25/2019	
9/26/2019	
10/8/2019	
10/9/2019	0.019
2/11/2020	
2/12/2020	
2/14/2020	0.019
3/17/2020	
3/19/2020	
3/24/2020	
3/25/2020	0.018
8/27/2020	
9/22/2020	
9/23/2020	
9/24/2020	
9/25/2020	0.015
2/9/2021	0.016
2/10/2021	
2/11/2021	
3/1/2021	
3/3/2021	
3/4/2021	0.016
8/19/2021	
8/26/2021	0.016
8/27/2021	
9/1/2021	
9/3/2021	
2/8/2022	
2/9/2022	
2/10/2022	0.016
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	0.014
2/7/2023	
2/8/2023	0.016
8/15/2023	
8/16/2023	0.015
2/20/2024	
2/22/2024	0.015
2/23/2024	
8/20/2024	

Time Series

Constituent: Barium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38
8/21/2024	
8/23/2024	0.016
2/25/2025	
2/26/2025	0.017

Time Series

Constituent: Barium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-41	YGWC-23S	YGWC-24SB	YGWC-36A	YGWC-42	YGWC-43	YGWC-49	YGWC-50	YAMW-1
6/7/2016		0.045							
6/8/2016			0.02						
7/28/2016		0.0511							
8/1/2016			0.02						
8/30/2016					0.0455				
8/31/2016						0.0065 (J)			
9/1/2016							0.077		
9/2/2016				0.0409					
9/20/2016		0.0561	0.0203						
11/8/2016		0.054	0.0191						
11/14/2016				0.0182					
11/15/2016							0.0772		
11/16/2016					0.0541	0.0092 (J)			
1/16/2017		0.0528							
1/17/2017			0.0192						
2/24/2017						0.0144			
2/27/2017					0.0573		0.0888		
2/28/2017				0.023					
3/8/2017			0.0189						
3/9/2017		0.0469							
5/2/2017		0.0427	0.019						
5/9/2017				0.0349			0.0792		
5/10/2017					0.0517	0.0173			
7/7/2017			0.019						
7/10/2017		0.0395							
7/11/2017					0.0451	0.0183			
7/13/2017				0.0484			0.0839		
9/22/2017				0.0491					
9/29/2017				0.0452					
10/6/2017				0.0508					
10/11/2017							0.078		
10/12/2017	0.0394				0.0429	0.0205			
11/21/2017	0.032								
1/11/2018	0.03								
2/19/2018	0.031								
3/30/2018		0.03	0.02	0.043					
4/3/2018	0.03								
4/4/2018					0.041	0.024	0.074		
6/12/2018		0.024	0.018						
6/13/2018				0.046					
6/27/2018	0.028								
8/7/2018	0.027								
9/20/2018					0.038	0.035	0.074		
9/24/2018	0.026								
9/26/2018			0.019	0.048					
9/27/2018		0.022							
10/16/2018									0.048
3/5/2019			0.019						
3/6/2019		0.019		0.041					
4/4/2019		0.019	0.02	0.042					
8/21/2019						0.03			
8/22/2019	0.021				0.031				

Time Series

Constituent: Barium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-41	YGWC-23S	YGWC-24SB	YGWC-36A	YGWC-42	YGWC-43	YGWC-49	YGWC-50	YAMW-1
9/26/2019			0.017	0.025			0.065		0.047
9/27/2019		0.018							
10/9/2019	0.021				0.027	0.04			
2/13/2020			0.016						
2/14/2020	0.024			0.026	0.031				
2/17/2020		0.024				0.037	0.071		
3/25/2020	0.021			0.025	0.03	0.033	0.071		0.04
3/26/2020		0.027	0.019						
9/23/2020			0.026						
9/24/2020		0.035			0.026		0.066		0.028
9/25/2020	0.016					0.046			
10/7/2020				0.04					
2/9/2021		0.042	0.031			0.041	0.071		0.039
2/10/2021	0.017			0.035	0.031				
3/3/2021			0.025						0.035
3/4/2021	0.017	0.043		0.028	0.03	0.039	0.069		
8/25/2021		0.049			0.027				
8/26/2021	0.018								
9/1/2021			0.025				0.066		0.075
9/3/2021				0.038					
9/27/2021						0.0097			
2/8/2022	0.021					0.029	0.07		
2/10/2022		0.058	0.026		0.026				0.084
2/11/2022				0.044					
8/31/2022							0.058		0.085
9/1/2022	0.019	0.053		0.059	0.023	0.029			
2/8/2023	0.022	0.053			0.023	0.031			
2/9/2023				0.097			0.063		0.078
2/10/2023			0.031						
8/16/2023	0.02	0.052	0.025	0.19	0.024	0.029	0.058		0.092
8/17/2023								0.022	
12/20/2023								0.02	
2/21/2024		0.053					0.054		
2/22/2024	0.019				0.021	0.028		0.018	
2/23/2024			0.032	0.13					0.087
6/10/2024								0.016	
8/21/2024		0.057							
8/22/2024			0.025	0.089	0.022	0.035	0.054		0.086
8/23/2024	0.019							0.017	
11/26/2024								0.019	
2/26/2025	0.021			0.073	0.023		0.055	0.017	0.083
2/27/2025		0.08				0.031			
3/17/2025			0.027						
5/21/2025								0.015 (J)	

Time Series

Constituent: Barium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-2
6/7/2016	
6/8/2016	
7/28/2016	
8/1/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/20/2016	
11/8/2016	
11/14/2016	
11/15/2016	
11/16/2016	
1/16/2017	
1/17/2017	
2/24/2017	
2/27/2017	
2/28/2017	
3/8/2017	
3/9/2017	
5/2/2017	
5/9/2017	
5/10/2017	
7/7/2017	
7/10/2017	
7/11/2017	
7/13/2017	
9/22/2017	
9/29/2017	
10/6/2017	
10/11/2017	
10/12/2017	
11/21/2017	
1/11/2018	
2/19/2018	
3/30/2018	
4/3/2018	
4/4/2018	
6/12/2018	
6/13/2018	
6/27/2018	
8/7/2018	
9/20/2018	
9/24/2018	
9/26/2018	
9/27/2018	
10/16/2018	
3/5/2019	
3/6/2019	
4/4/2019	
8/21/2019	
8/22/2019	

Time Series

Constituent: Barium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-2
9/26/2019	
9/27/2019	
10/9/2019	
2/13/2020	
2/14/2020	
2/17/2020	
3/25/2020	
3/26/2020	
9/23/2020	0.0092 (J)
9/24/2020	
9/25/2020	
10/7/2020	
2/9/2021	0.0085 (J)
2/10/2021	
3/3/2021	0.0082
3/4/2021	
8/25/2021	
8/26/2021	
9/1/2021	0.0072
9/3/2021	
9/27/2021	
2/8/2022	
2/10/2022	0.0074
2/11/2022	
8/31/2022	
9/1/2022	0.0092
2/8/2023	0.0064
2/9/2023	
2/10/2023	
8/16/2023	
8/17/2023	0.0092
12/20/2023	
2/21/2024	
2/22/2024	0.0068
2/23/2024	
6/10/2024	
8/21/2024	0.0089
8/22/2024	
8/23/2024	
11/26/2024	
2/26/2025	0.01
2/27/2025	
3/17/2025	
5/21/2025	

Time Series

Constituent: Barium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-3	YAMW-4	YAMW-5	PZ-35	PZ-37D	PZ-37	PZ-51	PZ-52D	PZ-54D
10/12/2017						0.064			
11/21/2017						0.0579			
1/11/2018						0.0549			
2/20/2018						0.059			
4/3/2018						0.051			
6/29/2018						0.054			
8/6/2018						0.048			
9/24/2018						0.047			
10/16/2018				0.063					
9/26/2019				0.039					
3/25/2020				0.039					
9/23/2020		0.0063 (J)							
9/24/2020			0.057	0.034					
9/25/2020						0.034			
2/9/2021		0.02	0.042			0.036			
2/10/2021				0.032					
3/3/2021		0.021							
3/4/2021			0.039	0.033		0.036			
5/13/2021					0.015				
8/25/2021		0.0037 (J)				0.035			
8/26/2021			0.036						
9/1/2021				0.067					
9/3/2021					0.015				
11/4/2021								0.026	
2/10/2022	0.038	0.0033 (J)	0.034	0.074		0.029	0.017		
2/11/2022					0.013			0.032	
4/4/2022						0.024			
4/7/2022						0.026			
8/31/2022				0.1					
9/1/2022	0.024	0.003 (J)	0.034		0.033	0.023	0.013	0.015	
2/8/2023		0.003 (J)	0.039		0.018	0.022		0.012	
2/9/2023	0.045			0.13			0.015		
8/16/2023	0.026	0.0031 (J)	0.036	0.18	0.021		0.014		
8/17/2023						0.023		0.011	
2/21/2024	0.032				0.02	0.021		0.0091	
2/22/2024		0.003 (J)	0.035				0.015		
2/23/2024				0.21					
6/12/2024									0.92
8/21/2024					0.028	0.022		0.0079	
8/22/2024	0.031			0.15			0.014		
8/23/2024		0.0031 (J)	0.035						
11/7/2024									0.042
2/25/2025				0.25					
2/26/2025	0.034	0.0033 (J)							
2/27/2025			0.038		0.021	0.023	0.015	0.016	0.04

Time Series

Constituent: Barium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	PZ-55
10/12/2017	
11/21/2017	
1/11/2018	
2/20/2018	
4/3/2018	
6/29/2018	
8/6/2018	
9/24/2018	
10/16/2018	
9/26/2019	
3/25/2020	
9/23/2020	
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	
3/3/2021	
3/4/2021	
5/13/2021	
8/25/2021	
8/26/2021	
9/1/2021	
9/3/2021	
11/4/2021	
2/10/2022	
2/11/2022	
4/4/2022	
4/7/2022	
8/31/2022	
9/1/2022	
2/8/2023	
2/9/2023	
8/16/2023	
8/17/2023	
2/21/2024	
2/22/2024	0.045
2/23/2024	
6/12/2024	
8/21/2024	0.042
8/22/2024	
8/23/2024	
11/7/2024	
2/25/2025	
2/26/2025	
2/27/2025	0.044

Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
5/1/2007	<0.0005								
9/12/2007	<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			<0.0005			
6/2/2016					<0.0005		<0.0005	<0.0005	<0.0005
7/21/2016	<0.0005								
7/25/2016			<0.0005			<0.0005			
7/26/2016		<0.0005			<0.0005		<0.0005	<0.0005	<0.0005
8/31/2016	<0.0005								
9/13/2016		<0.0005	<0.0005						
9/14/2016				<0.0005		<0.0005	<0.0005	<0.0005	<0.0005
9/15/2016					<0.0005				
11/1/2016		<0.0005			<0.0005	<0.0005			
11/2/2016							<0.0005	<0.0005	
11/4/2016			<0.0005	<0.0005					<0.0005
11/28/2016	<0.0005								
12/15/2016				<0.0005					
1/10/2017									
1/11/2017		<0.0005			<0.0005	<0.0005			
1/12/2017								<0.0005	<0.0005
1/13/2017							<0.0005		
1/16/2017			<0.0005	<0.0005					
2/22/2017	<0.0005								
3/1/2017						<0.0005			
3/2/2017		<0.0005	<0.0005		<0.0005				
3/3/2017				<0.0005					
3/6/2017							<0.0005		
3/7/2017								<0.0005	<0.0005
3/8/2017									
4/26/2017					<0.0005	<0.0005			
4/27/2017		<0.0005	<0.0005						
4/28/2017				<0.0005					
5/1/2017							<0.0005	<0.0005	
5/2/2017									<0.0005
5/8/2017	<0.0005								
5/26/2017				<0.0005					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/27/2017		<0.0005	<0.0005					<0.0005	<0.0005
6/28/2017				<0.0005	<0.0005	<0.0005			
6/29/2017							<0.0005		
6/30/2017									
7/17/2017	<0.0005								
10/16/2017	<0.0005								
2/19/2018	<0.0005								
3/27/2018			<0.0005						
3/28/2018				<0.0005	<0.0005	<0.0005			
3/29/2018		<0.0005					<0.0005	<0.0005	<0.0005
6/6/2018								<0.0005	
6/7/2018							<0.0005		<0.0005
8/6/2018	<0.0005								
9/26/2018							<0.0005	<0.0005	<0.0005
2/25/2019	<0.0005								
2/26/2019									
2/27/2019		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			
3/4/2019							<0.0005	<0.0005	<0.0005
3/28/2019		<0.0005	<0.0005						
3/29/2019				<0.0005					
4/1/2019					<0.0005	<0.0005			
4/3/2019							<0.0005	<0.0005	<0.0005
6/12/2019	<0.0005								
8/19/2019	<0.0005								
9/24/2019		<0.0005	<0.0005	<0.0005				<0.0005	<0.0005
9/25/2019					<0.0005	<0.0005	<0.0005		
10/8/2019	<0.0005								
2/10/2020		<0.0005	<0.0005						
2/11/2020				<0.0005		<0.0005			
2/12/2020					<0.0005		<0.0005	<0.0005	<0.0005
3/17/2020	<0.0005								
3/18/2020			<0.0005						
3/19/2020		<0.0005		<0.0005	<0.0005	<0.0005			
3/24/2020								<0.0005	<0.0005
3/25/2020							<0.0005		
8/26/2020	<0.0005								
9/22/2020	<0.0005						<0.0005	<0.0005	<0.0005
9/23/2020		<0.0005	<0.0005	<0.0005	<0.0005	5.9E-05 (J)			
9/25/2020									
2/8/2021								<0.0005	<0.0005
2/9/2021							<0.0005		
2/10/2021				<0.0005	<0.0005	<0.0005			
2/12/2021		<0.0005	<0.0005						
3/2/2021	<0.0005							<0.0005	<0.0005
3/3/2021		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
8/19/2021		<0.0005	<0.0005		<0.0005				
8/20/2021	<0.0005								
8/26/2021							<0.0005	<0.0005	<0.0005
8/27/2021				<0.0005		<0.0005			
2/8/2022	<0.0005								
2/9/2022		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			
2/10/2022								<0.0005	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
2/11/2022							<0.0005		
8/30/2022	<0.0005	<0.0005		<0.0005				<0.0005	<0.0005
8/31/2022			<0.0005		<0.0005	<0.0005	<0.0005		
2/7/2023	<0.0005	0.0011	0.00054	<0.0005				<0.0005	
2/8/2023					<0.0005	<0.0005			
2/9/2023							<0.0005		<0.0005
8/15/2023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005
8/16/2023						<0.0005			
2/20/2024	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2/23/2024									
8/20/2024		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2/25/2025		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (bg)
5/1/2007	
9/12/2007	
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	
6/2/2016	<0.003
7/21/2016	
7/25/2016	
7/26/2016	0.0002 (J)
8/31/2016	
9/13/2016	
9/14/2016	
9/15/2016	0.0002 (J)
11/1/2016	
11/2/2016	0.0002 (J)
11/4/2016	
11/28/2016	
12/15/2016	
1/10/2017	0.0002 (J)
1/11/2017	
1/12/2017	
1/13/2017	
1/16/2017	
2/22/2017	
3/1/2017	
3/2/2017	
3/3/2017	
3/6/2017	
3/7/2017	
3/8/2017	0.0002 (J)
4/26/2017	0.0002 (J)
4/27/2017	
4/28/2017	
5/1/2017	
5/2/2017	
5/8/2017	
5/26/2017	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (bg)
6/27/2017	
6/28/2017	
6/29/2017	
6/30/2017	0.0002 (J)
7/17/2017	
10/16/2017	
2/19/2018	
3/27/2018	<0.003
3/28/2018	
3/29/2018	
6/6/2018	
6/7/2018	
8/6/2018	
9/26/2018	
2/25/2019	
2/26/2019	0.00016 (J)
2/27/2019	
3/4/2019	
3/28/2019	
3/29/2019	0.00017 (J)
4/1/2019	
4/3/2019	
6/12/2019	
8/19/2019	
9/24/2019	
9/25/2019	0.00018 (J)
10/8/2019	
2/10/2020	
2/11/2020	
2/12/2020	0.00019 (J)
3/17/2020	
3/18/2020	0.00021 (J)
3/19/2020	
3/24/2020	
3/25/2020	
8/26/2020	
9/22/2020	
9/23/2020	
9/25/2020	0.00018 (J)
2/8/2021	
2/9/2021	
2/10/2021	0.00019 (J)
2/12/2021	
3/2/2021	0.00018 (J)
3/3/2021	
8/19/2021	0.00022 (J)
8/20/2021	
8/26/2021	
8/27/2021	
2/8/2022	
2/9/2022	
2/10/2022	0.00025 (J)

Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (bg)
2/11/2022	
8/30/2022	
8/31/2022	0.0002 (J)
2/7/2023	
2/8/2023	0.00022 (J)
2/9/2023	
8/15/2023	0.00018 (J)
8/16/2023	
2/20/2024	
2/23/2024	0.00024 (J)
8/20/2024	0.00021 (J)
2/25/2025	0.0002 (J)

Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)
6/2/2016						<0.0005			
6/6/2016		<0.0005	<0.0005						
6/7/2016	<0.0005			<0.0005	<0.0005				
7/25/2016						<0.0005			
7/27/2016	<0.0005	<0.0005	<0.0005	<0.0005					
7/28/2016					<0.0005				
8/30/2016									<0.0005
9/16/2016	<0.0005		<0.0005						
9/19/2016		<0.0005		<0.0005	<0.0005	<0.0005			
11/1/2016						<0.0005			
11/2/2016				<0.0005					
11/3/2016	<0.0005	<0.0005	<0.0005		<0.0005				
11/14/2016									<0.0005
1/11/2017	<0.0005	<0.0005	<0.0005						
1/13/2017				<0.0005	<0.0005				
1/16/2017						<0.0005			
2/21/2017						<0.0005			
2/24/2017									<0.0005
3/1/2017		<0.0005	<0.0005						
3/2/2017	8E-05 (J)								
3/6/2017				<0.0005	<0.0005				
4/26/2017		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			
5/2/2017	<0.0005								
5/8/2017									7E-05 (J)
6/28/2017		<0.0005	<0.0005						
6/29/2017	<0.0005			<0.0005	<0.0005				
6/30/2017						<0.0005			
7/11/2017									<0.0005
10/10/2017									<0.0005
10/11/2017							<0.0005		
10/12/2017								0.0002 (J)	
11/20/2017							<0.0005	0.0003 (J)	
1/10/2018								0.0003 (J)	
1/11/2018							<0.0005		
1/12/2018									
2/19/2018								<0.0025	
2/20/2018							<0.0005		
3/27/2018						<0.0005			
3/28/2018	<0.0005	<0.0005	<0.0005						
3/29/2018				<0.0005	<0.0005				
4/2/2018									<0.0005
4/3/2018							<0.0005	<0.0025	
6/5/2018					<0.0005				
6/6/2018				8E-05 (J)					
6/7/2018		<0.0005							
6/11/2018	9E-05 (J)		5.7E-05 (J)						
6/28/2018							<0.0005	0.00029 (J)	
8/7/2018							<0.0005	0.00024 (J)	
9/19/2018									5.7E-05 (J)
9/24/2018							<0.0005	0.00019 (J)	
9/25/2018	8.9E-05 (J)	<0.0005	8.2E-05 (J)	6.1E-05 (J)	<0.0005				
2/26/2019						7.2E-05 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)
3/5/2019	9.1E-05 (J)		7.9E-05 (J)	0.00011 (J)	<0.0005				
3/6/2019		<0.0005							
4/1/2019						<0.0005			
4/2/2019	9E-05 (J)				<0.0005				
4/3/2019		<0.0005	7.5E-05 (J)	6.4E-05 (J)					
8/20/2019									<0.0005
8/21/2019							<0.0005	0.0002 (J)	
8/22/2019									
9/24/2019					<0.0005				
9/25/2019	8.1E-05 (J)			<0.0005		<0.0005			
9/26/2019		<0.0005	8.4E-05 (J)						
10/9/2019							<0.0005	0.0002 (J)	
2/11/2020	7.8E-05 (J)	<0.0005	7.6E-05 (J)						
2/12/2020				7.8E-05 (J)	<0.0005	<0.0005	<0.0005	0.00018 (J)	
2/14/2020									
3/19/2020						<0.0005			
3/24/2020	8E-05 (J)	<0.0005	8.9E-05 (J)	7.6E-05 (J)	<0.0005			0.00022 (J)	
3/25/2020							<0.0005		
8/27/2020									4.7E-05 (J)
9/22/2020									<0.0005
9/23/2020	8.1E-05 (J)	<0.0005	8.8E-05 (J)						
9/24/2020				8.3E-05 (J)	<0.0005	<0.0005	<0.0005	0.0002 (J)	
9/25/2020									
2/9/2021	9.4E-05 (J)	<0.0005	9.8E-05 (J)	6.8E-05 (J)	<0.0005				
2/10/2021							5.1E-05 (J)	0.00021 (J)	
2/11/2021						4.7E-05 (J)			
3/1/2021						<0.0005			5.5E-05 (J)
3/3/2021	9.9E-05 (J)	<0.0005	0.00011 (J)	6.8E-05 (J)					
3/4/2021					<0.0005		<0.0005	0.00021 (J)	
8/19/2021						<0.0005			<0.0005
8/26/2021			9.3E-05 (J)				<0.0005		
8/27/2021	0.0001 (J)	<0.0005		5.9E-05 (J)					
9/1/2021					<0.0005				
9/3/2021								0.00024 (J)	
2/8/2022							<0.0005	0.00028 (J)	5.6E-05 (J)
2/9/2022	0.00011 (J)	<0.0005	8.9E-05 (J)	7.7E-05 (J)	<0.0005				
2/10/2022									
2/11/2022						<0.0005			
8/30/2022	0.0001 (J)	<0.0005	8.2E-05 (J)		<0.0005				
8/31/2022				<0.0005		<0.0005	<0.0005	0.00025 (J)	<0.0005
9/1/2022									
2/7/2023	9.6E-05 (J)	<0.0005	7.1E-05 (J)	7.4E-05 (J)	<0.0005		<0.0005		
2/8/2023						<0.0005		0.00026 (J)	<0.0005
8/15/2023	<0.0005	<0.0005	5.7E-05 (J)	<0.0005	<0.0005		<0.0005	<0.0025	<0.0005
8/16/2023						<0.0005			
2/20/2024	0.0001 (J)	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005	0.00025 (J)	<0.0005
2/22/2024									
2/23/2024			<0.0005						
8/20/2024	0.0001 (J)	<0.0005		<0.0005	<0.0005	<0.0005			<0.0005
8/21/2024			<0.0005				<0.0005	0.00023 (J)	
8/23/2024									
2/25/2025	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00018 (J)	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)
2/26/2025									

Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38
6/2/2016	
6/6/2016	
6/7/2016	
7/25/2016	
7/27/2016	
7/28/2016	
8/30/2016	
9/16/2016	
9/19/2016	
11/1/2016	
11/2/2016	
11/3/2016	
11/14/2016	
1/11/2017	
1/13/2017	
1/16/2017	
2/21/2017	
2/24/2017	
3/1/2017	
3/2/2017	
3/6/2017	
4/26/2017	
5/2/2017	
5/8/2017	
6/28/2017	
6/29/2017	
6/30/2017	
7/11/2017	
10/10/2017	
10/11/2017	
10/12/2017	0.0057
11/20/2017	0.0053
1/10/2018	
1/11/2018	
1/12/2018	0.0053
2/19/2018	
2/20/2018	0.0053
3/27/2018	
3/28/2018	
3/29/2018	
4/2/2018	
4/3/2018	0.0056
6/5/2018	
6/6/2018	
6/7/2018	
6/11/2018	
6/28/2018	0.0059
8/7/2018	0.0058
9/19/2018	
9/24/2018	0.0051
9/25/2018	
2/26/2019	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38
3/5/2019	
3/6/2019	
4/1/2019	
4/2/2019	
4/3/2019	
8/20/2019	
8/21/2019	
8/22/2019	0.0049
9/24/2019	
9/25/2019	
9/26/2019	
10/9/2019	0.0046
2/11/2020	
2/12/2020	
2/14/2020	0.0042
3/19/2020	
3/24/2020	
3/25/2020	0.0038
8/27/2020	
9/22/2020	
9/23/2020	
9/24/2020	
9/25/2020	0.0033
2/9/2021	0.0029 (J)
2/10/2021	
2/11/2021	
3/1/2021	
3/3/2021	
3/4/2021	0.0029
8/19/2021	
8/26/2021	0.0028
8/27/2021	
9/1/2021	
9/3/2021	
2/8/2022	
2/9/2022	
2/10/2022	0.0027
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	0.0022
2/7/2023	
2/8/2023	0.002
8/15/2023	
8/16/2023	0.0018
2/20/2024	
2/22/2024	0.0019
2/23/2024	
8/20/2024	
8/21/2024	
8/23/2024	0.0015
2/25/2025	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38
2/26/2025	0.0018

Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-41	YGWC-23S	YGWC-24SB	YGWC-36A	YGWC-42	YGWC-43	YGWC-49	YGWC-50	YAMW-1
6/7/2016		<0.003							
6/8/2016			<0.003						
7/28/2016		<0.003							
8/1/2016			0.0001 (J)						
8/30/2016					9E-05 (J)				
8/31/2016						<0.003			
9/1/2016							0.0001 (J)		
9/2/2016				0.0003 (J)					
9/20/2016		0.0001 (J)	0.0001 (J)						
11/8/2016		0.0001 (J)	0.0001 (J)						
11/14/2016				9E-05 (J)					
11/15/2016							0.0001 (J)		
11/16/2016					<0.0005	<0.003			
1/16/2017		0.0001 (J)							
1/17/2017			0.0001 (J)						
2/24/2017						<0.003			
2/27/2017					<0.0005		0.0001 (J)		
2/28/2017				0.0001 (J)					
3/8/2017			0.0001 (J)						
3/9/2017		0.0001 (J)							
5/2/2017		9E-05 (J)	0.0001 (J)						
5/9/2017				0.0002 (J)			0.0001 (J)		
5/10/2017					9E-05 (J)	<0.003			
7/7/2017			0.0001 (J)						
7/10/2017		<0.003							
7/11/2017					0.0001 (J)	<0.003			
7/13/2017				0.0003 (J)			0.0001 (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	0.0036				<0.0005	0.0001 (J)			
11/21/2017	0.0036								
1/11/2018	0.0037								
2/19/2018	0.0039								
3/30/2018		<0.003	<0.003	<0.003					
4/3/2018	0.0037								
4/4/2018					<0.0005	<0.003	<0.0005		
6/12/2018		8.1E-05 (J)	0.00012 (J)						
6/13/2018				0.00035 (J)					
6/27/2018	0.0038								
8/7/2018	0.0037								
9/20/2018					<0.0005	0.00029 (J)	0.00011 (J)		
9/24/2018	0.0032								
9/26/2018			0.00014 (J)	0.00032 (J)					
9/27/2018		9E-05 (J)							
10/16/2018									<0.0005
3/5/2019			0.00016 (J)						
3/6/2019		6.6E-05 (J)		0.00029 (J)					
4/4/2019		7.2E-05 (J)	0.00015 (J)	0.00033 (J)					
8/21/2019						0.0003 (J)			
8/22/2019	0.0026 (J)				<0.0005				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-41	YGWC-23S	YGWC-24SB	YGWC-36A	YGWC-42	YGWC-43	YGWC-49	YGWC-50	YAMW-1
9/26/2019			0.00014 (J)	0.00029 (J)			0.00013 (J)		<0.0005
9/27/2019		7.7E-05 (J)							
10/9/2019	0.0026 (J)				<0.0005	0.00034 (J)			
2/13/2020			0.00014 (J)						
2/14/2020	0.0026 (J)			0.00019 (J)	<0.0005				
2/17/2020		8.1E-05 (J)				0.00034 (J)	0.00011 (J)		
3/25/2020	0.0026 (J)			0.00022 (J)	<0.0005	0.00034 (J)	0.00013 (J)		0.00037 (J)
3/26/2020		9E-05 (J)	0.00016 (J)						
9/23/2020			6.1E-05 (J)						
9/24/2020		0.00015 (J)			6.7E-05		0.00013 (J)		5.8E-05 (J)
9/25/2020	0.002 (J)					0.00054 (J)			
10/7/2020				0.00014 (J)					
2/9/2021		0.00015 (J)	0.00013 (J)			0.00053 (J)	0.00013 (J)		<0.0005
2/10/2021	0.0015 (J)			9.9E-05 (J)	5.7E-05 (J)				
3/3/2021			9.9E-05 (J)						<0.0005
3/4/2021	0.0015	0.00013 (J)		0.00016 (J)	<0.0005	0.00056	0.0001 (J)		
8/25/2021		0.00019 (J)			<0.0005				
8/26/2021	0.0012								
9/1/2021			0.00014 (J)				0.00012 (J)		9.5E-05 (J)
9/3/2021				0.00035 (J)					
9/27/2021						0.00015 (J)			
2/8/2022	0.0016					0.00037 (J)	0.00015 (J)		
2/10/2022		0.00023 (J)	0.00016 (J)		6.1E-05 (J)				0.00016 (J)
2/11/2022				0.00043 (J)					
8/31/2022							0.00017 (J)		0.00011 (J)
9/1/2022	0.0013	0.00019 (J)		0.00053	<0.0005	0.00033 (J)			
2/8/2023	0.0013	0.00022 (J)			6.2E-05 (J)	0.00036 (J)			
2/9/2023				0.00066			0.00012 (J)		0.00012 (J)
2/10/2023			5.4E-05 (J)						
8/16/2023	0.0012	0.0002 (J)	9.6E-05 (J)	0.0011	5.7E-05 (J)	0.00034 (J)	0.00011 (J)		0.00028 (J)
8/17/2023								0.0047	
12/20/2023								0.0051	
2/21/2024		0.00019 (J)					0.0001 (J)		
2/22/2024	0.0014				<0.0005	0.00032 (J)		0.0049	
2/23/2024			0.00015 (J)	0.0018					0.00015 (J)
6/10/2024								0.0046	
8/21/2024		0.00019 (J)							
8/22/2024			0.00012 (J)	0.0021	<0.0005	0.00043 (J)	0.0001 (J)		9.5E-05 (J)
8/23/2024	0.0011							0.0041	
11/26/2024								0.0037	
2/26/2025	0.0015			0.003	<0.0005		<0.0005	0.003	<0.0005
2/27/2025		0.0003 (J)				0.00057			
3/17/2025			0.00016 (J)						
5/21/2025								0.0026 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-2
6/7/2016	
6/8/2016	
7/28/2016	
8/1/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/20/2016	
11/8/2016	
11/14/2016	
11/15/2016	
11/16/2016	
1/16/2017	
1/17/2017	
2/24/2017	
2/27/2017	
2/28/2017	
3/8/2017	
3/9/2017	
5/2/2017	
5/9/2017	
5/10/2017	
7/7/2017	
7/10/2017	
7/11/2017	
7/13/2017	
9/22/2017	
9/29/2017	
10/6/2017	
10/11/2017	
10/12/2017	
11/21/2017	
1/11/2018	
2/19/2018	
3/30/2018	
4/3/2018	
4/4/2018	
6/12/2018	
6/13/2018	
6/27/2018	
8/7/2018	
9/20/2018	
9/24/2018	
9/26/2018	
9/27/2018	
10/16/2018	
3/5/2019	
3/6/2019	
4/4/2019	
8/21/2019	
8/22/2019	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-2
9/26/2019	
9/27/2019	
10/9/2019	
2/13/2020	
2/14/2020	
2/17/2020	
3/25/2020	
3/26/2020	
9/23/2020	<0.0005
9/24/2020	
9/25/2020	
10/7/2020	
2/9/2021	5.1E-05 (J)
2/10/2021	
3/3/2021	<0.0005
3/4/2021	
8/25/2021	
8/26/2021	
9/1/2021	6.5E-05 (J)
9/3/2021	
9/27/2021	
2/8/2022	
2/10/2022	7.4E-05 (J)
2/11/2022	
8/31/2022	
9/1/2022	5.7E-05 (J)
2/8/2023	5.5E-05 (J)
2/9/2023	
2/10/2023	
8/16/2023	
8/17/2023	6.9E-05 (J)
12/20/2023	
2/21/2024	
2/22/2024	<0.0005
2/23/2024	
6/10/2024	
8/21/2024	<0.0005
8/22/2024	
8/23/2024	
11/26/2024	
2/26/2025	<0.0005
2/27/2025	
3/17/2025	
5/21/2025	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-3	YAMW-4	YAMW-5	PZ-35	PZ-37D	PZ-37	PZ-51	PZ-52D	PZ-54D
10/12/2017						0.0004 (J)			
11/21/2017						0.0004 (J)			
1/11/2018						0.0003 (J)			
2/20/2018						<0.003			
4/3/2018						<0.003			
6/29/2018						0.00033 (J)			
8/6/2018						0.0002 (J)			
8/30/2018				0.00052 (J)					
9/24/2018						0.00029 (J)			
10/16/2018				0.00036 (J)					
9/26/2019				<0.003					
1/15/2020			0.00017 (J)						
3/25/2020				<0.003					
9/23/2020		<0.0005							
9/24/2020			8.6E-05 (J)	0.00033 (J)					
9/25/2020						0.00031 (J)			
2/9/2021		<0.0005	0.00015 (J)			0.00029 (J)			
2/10/2021				0.00025 (J)					
3/3/2021		<0.0005							
3/4/2021			0.00013 (J)	0.00025 (J)		0.00017 (J)			
5/13/2021					<0.0005				
8/25/2021		<0.0005				0.00059			
8/26/2021			0.00012 (J)						
9/1/2021				0.00045 (J)					
9/3/2021					<0.0005				
11/4/2021								<0.0005	
2/10/2022	7.8E-05 (J)	<0.0005	0.00013 (J)	0.00055		0.001	0.0033		
2/11/2022					<0.0005			5.9E-05 (J)	
4/4/2022						0.0012			
4/7/2022						0.00096			
8/31/2022				0.00061					
9/1/2022	0.00011 (J)	<0.0005	0.00011 (J)		<0.0005	0.0011	0.0031	<0.0005	
2/8/2023		<0.0005	0.00013 (J)		<0.0005	0.0011		<0.0005	
2/9/2023	6.2E-05 (J)			0.0008			0.0024		
8/16/2023	0.00017 (J)	<0.0005	0.00011 (J)	0.0011	<0.0005		0.0028		
8/17/2023						0.0012		8.6E-05 (J)	
2/21/2024	0.00019 (J)				<0.0005	0.0012		<0.0005	
2/22/2024		<0.0005	0.00013 (J)				0.0029		
2/23/2024				0.0015					
6/12/2024									0.0033
8/21/2024					<0.0005	0.0011		<0.0005	
8/22/2024	0.00012 (J)			0.00095			0.0032		
8/23/2024		<0.0005	0.00012 (J)						
11/7/2024									0.00014 (J)
2/25/2025				0.0026					
2/26/2025	<0.0005	<0.0005							
2/27/2025			0.00016 (J)		<0.0005	0.0015	0.0039	<0.0005	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	PZ-55
10/12/2017	
11/21/2017	
1/11/2018	
2/20/2018	
4/3/2018	
6/29/2018	
8/6/2018	
8/30/2018	
9/24/2018	
10/16/2018	
9/26/2019	
1/15/2020	
3/25/2020	
9/23/2020	
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	
3/3/2021	
3/4/2021	
5/13/2021	
8/25/2021	
8/26/2021	
9/1/2021	
9/3/2021	
11/4/2021	
2/10/2022	
2/11/2022	
4/4/2022	
4/7/2022	
8/31/2022	
9/1/2022	
2/8/2023	
2/9/2023	
8/16/2023	
8/17/2023	
2/21/2024	
2/22/2024	<0.0005
2/23/2024	
6/12/2024	
8/21/2024	<0.0005
8/22/2024	
8/23/2024	
11/7/2024	
2/25/2025	
2/26/2025	
2/27/2025	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/1/2016		<0.04	<0.04			<0.04			
6/2/2016					<0.04		<0.04	<0.04	<0.04
7/25/2016			<0.04			<0.04			
7/26/2016		0.0055 (J)			0.0097 (J)		0.0047 (J)	0.0052 (J)	<0.04
8/31/2016	0.0315 (J)								
9/13/2016		<0.04	<0.04						
9/14/2016				<0.04		<0.04	<0.04	0.0071 (J)	0.01 (J)
9/15/2016					0.0102 (J)				
11/1/2016		0.0086 (J)			<0.04	<0.04			
11/2/2016							<0.04	<0.04	
11/4/2016			<0.04	<0.04					<0.04
11/28/2016	0.0095 (J)								
12/15/2016				0.0107 (J)					
1/10/2017									
1/11/2017		0.0074 (J)			<0.04	<0.04			
1/12/2017								0.0076 (J)	<0.04
1/13/2017							<0.04		
1/16/2017			<0.04	<0.04					
2/22/2017	<0.2								
3/1/2017						0.0063 (J)			
3/2/2017		0.008 (J)	<0.04		0.0084 (J)				
3/3/2017				<0.04					
3/6/2017							<0.04		
3/7/2017								0.0089 (J)	<0.04
3/8/2017									
4/26/2017					<0.04	<0.04			
4/27/2017		0.0066 (J)	<0.04						
4/28/2017				<0.04					
5/1/2017							<0.04	0.0061 (J)	
5/2/2017									<0.04
5/8/2017	0.0084 (J)								
5/26/2017				<0.04					
6/27/2017		0.0087 (J)	0.006 (J)					0.0079 (J)	<0.04
6/28/2017				<0.04	<0.04	<0.04			
6/29/2017							<0.04		
6/30/2017									
7/17/2017	0.0092 (J)								
10/3/2017		0.0072 (J)	0.0071 (J)	<0.04				0.0094 (J)	<0.04
10/4/2017					<0.04	<0.04			
10/5/2017							<0.04		
10/16/2017	<0.2								
2/19/2018	<0.2								
6/5/2018		0.0052 (J)							
6/6/2018			<0.04					0.0098 (J)	
6/7/2018				<0.04	0.004 (J)		0.0045 (J)		<0.04
6/8/2018						<0.04			
8/6/2018	<0.2								
9/26/2018							0.005 (J)	0.01 (J)	0.0057 (J)
10/1/2018		0.021 (J)	0.0049 (J)	<0.04	<0.04	<0.04			
2/25/2019	<0.2								
3/28/2019		0.005 (J)	<0.04						
3/29/2019				0.0065 (J)					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
4/1/2019					<0.04	<0.04			
4/3/2019							0.0055 (J)	0.0076 (J)	0.0044 (J)
6/12/2019	<0.2								
9/24/2019		0.0064 (J)	0.0055 (J)	0.0076 (J)				0.01 (J)	0.0049 (J)
9/25/2019					0.0054 (J)	<0.04	<0.04		
10/8/2019	<0.2								
3/17/2020	0.0051 (J)								
3/18/2020			0.0087 (J)						
3/19/2020		0.0085 (J)		0.0073 (J)	0.0073 (J)	0.0053 (J)			
3/24/2020								0.011 (J)	0.0068 (J)
3/25/2020							0.011 (J)		
9/22/2020	0.0079 (J)						<0.04	0.0079 (J)	0.0053 (J)
9/23/2020		<0.04	<0.04	<0.04	0.012 (J)	0.0073 (J)			
9/25/2020									
3/2/2021	<0.2							0.0068 (J)	0.011 (J)
3/3/2021		<0.04	<0.04	<0.04	<0.04	<0.04	0.0056 (J)		
8/19/2021		<0.04	<0.04		<0.04				
8/20/2021	<0.2								
8/26/2021							<0.04	0.009 (J)	<0.04
8/27/2021				<0.04		<0.04			
2/8/2022	<0.2								
2/9/2022		<0.04	<0.04	<0.04	0.01 (J)	<0.04			
2/10/2022								0.011 (J)	<0.04
2/11/2022							<0.04		
8/30/2022	<0.2	<0.04		<0.04				0.0098 (J)	<0.04
8/31/2022			<0.04		<0.04	<0.04	<0.04		
2/7/2023	<0.2	<0.04	<0.04	<0.04				<0.04	
2/8/2023					<0.04	<0.04			
2/9/2023							<0.04		<0.04
8/15/2023	<0.2	<0.04	0.0094 (J)	<0.04	<0.04		<0.04	<0.04	<0.04
8/16/2023						<0.04			
2/20/2024	0.017 (J)	0.015 (J)	0.014 (J)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
2/23/2024									
8/20/2024		<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
2/25/2025		<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.0078 (J)	<0.04

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (bg)
6/1/2016	
6/2/2016	<0.05
7/25/2016	
7/26/2016	0.0177 (J)
8/31/2016	
9/13/2016	
9/14/2016	
9/15/2016	0.0214 (J)
11/1/2016	
11/2/2016	0.0151 (J)
11/4/2016	
11/28/2016	
12/15/2016	
1/10/2017	0.0198 (J)
1/11/2017	
1/12/2017	
1/13/2017	
1/16/2017	
2/22/2017	
3/1/2017	
3/2/2017	
3/3/2017	
3/6/2017	
3/7/2017	
3/8/2017	0.0189 (J)
4/26/2017	0.0161 (J)
4/27/2017	
4/28/2017	
5/1/2017	
5/2/2017	
5/8/2017	
5/26/2017	
6/27/2017	
6/28/2017	
6/29/2017	
6/30/2017	0.0173 (J)
7/17/2017	
10/3/2017	
10/4/2017	
10/5/2017	0.0173 (J)
10/16/2017	
2/19/2018	
6/5/2018	
6/6/2018	
6/7/2018	
6/8/2018	0.013 (J)
8/6/2018	
9/26/2018	
10/1/2018	0.015 (J)
2/25/2019	
3/28/2019	
3/29/2019	0.014 (J)

Time Series

Constituent: Boron (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (bg)
4/1/2019	
4/3/2019	
6/12/2019	
9/24/2019	
9/25/2019	0.018 (J)
10/8/2019	
3/17/2020	
3/18/2020	0.02 (J)
3/19/2020	
3/24/2020	
3/25/2020	
9/22/2020	
9/23/2020	
9/25/2020	0.02 (J)
3/2/2021	0.017 (J)
3/3/2021	
8/19/2021	0.018 (J)
8/20/2021	
8/26/2021	
8/27/2021	
2/8/2022	
2/9/2022	
2/10/2022	0.02 (J)
2/11/2022	
8/30/2022	
8/31/2022	0.015 (J)
2/7/2023	
2/8/2023	0.015 (J)
2/9/2023	
8/15/2023	0.017 (J)
8/16/2023	
2/20/2024	
2/23/2024	0.037 (J)
8/20/2024	0.014 (J)
2/25/2025	0.018 (J)

Time Series

Constituent: Boron (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)
6/2/2016						<0.04			
6/6/2016		<0.04	<0.04						
6/7/2016	0.036 (J)			<0.04	<0.04				
7/25/2016						<0.04			
7/27/2016	0.008 (J)	<0.04	0.0059 (J)	<0.04					
7/28/2016					0.0096 (J)				
8/30/2016									0.0166 (J)
9/16/2016	0.0086 (J)		0.0079 (J)						
9/19/2016		<0.04		<0.04	<0.04	<0.04			
11/1/2016						<0.04			
11/2/2016				<0.04					
11/3/2016	0.0077 (J)	<0.04	0.0082 (J)		<0.04				
11/14/2016									0.0166 (J)
1/11/2017	0.0092 (J)	<0.04	0.0096 (J)						
1/13/2017				<0.04	<0.04				
1/16/2017						<0.04			
2/21/2017						<0.04			
2/24/2017									0.0145 (J)
3/1/2017		<0.04	0.0098 (J)						
3/2/2017	0.0095 (J)								
3/6/2017				<0.04	<0.04				
4/26/2017		<0.04	0.0091 (J)	<0.04	<0.04	<0.04			
5/2/2017	<0.04								
5/8/2017									0.0141 (J)
6/28/2017		<0.04	0.0079 (J)						
6/29/2017	0.0074 (J)			<0.04	<0.04				
6/30/2017						<0.04			
7/11/2017									0.0131 (J)
10/3/2017					<0.04				
10/4/2017	0.0077 (J)		0.009 (J)	<0.04		<0.04			
10/5/2017		<0.04							
10/10/2017									0.0124 (J)
10/11/2017							0.0135 (J)		
10/12/2017								0.0401	
11/20/2017							0.0251 (J)	0.156	
1/10/2018								0.15	
1/11/2018							0.0255 (J)		
1/12/2018									
2/19/2018								0.15	
2/20/2018							<0.04		
4/2/2018									0.013 (J)
4/3/2018							0.033 (J)	0.12	
6/5/2018					0.0092 (J)				
6/6/2018				0.0049 (J)					
6/7/2018		<0.04							
6/11/2018	0.01 (J)		0.0093 (J)			0.014 (J)			
6/28/2018							0.053	0.16	
8/7/2018							0.024 (J)	0.12	
9/19/2018									0.012 (J)
9/24/2018							0.028 (J)	0.099	
9/25/2018	0.0096 (J)	0.0046 (J)	0.007 (J)	<0.04	0.0054 (J)				
10/2/2018						<0.04			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)
3/26/2019								0.096	
3/27/2019							0.017 (J)		0.013 (J)
4/1/2019						<0.04			
4/2/2019	0.0066 (J)				0.011 (J)				
4/3/2019		<0.04	0.0053 (J)	<0.04					
9/24/2019					0.018 (J)				
9/25/2019	0.0081 (J)			<0.04		<0.04			
9/26/2019		0.0062 (J)	0.0072 (J)						
10/8/2019									0.012 (J)
10/9/2019							0.017 (J)	0.079	
3/17/2020									0.023 (J)
3/19/2020						0.0052 (J)			
3/24/2020	0.0092 (J)	0.0054 (J)	0.01 (J)	<0.04	0.016 (J)			0.088 (J)	
3/25/2020							0.043 (J)		
9/22/2020									0.0076 (J)
9/23/2020	0.0066 (J)	0.021 (J)	0.006 (J)						
9/24/2020				0.0094 (J)	0.013 (J)	0.0075 (J)	0.037 (J)	0.087 (J)	
9/25/2020									
3/1/2021						<0.04			0.013 (J)
3/3/2021	0.01 (J)	<0.04	0.0094 (J)	<0.04					
3/4/2021					0.0079 (J)		0.033 (J)	0.078	
8/19/2021						<0.04			0.011 (J)
8/26/2021			<0.04				0.095		
8/27/2021	0.011 (J)	<0.04		<0.04					
9/1/2021					<0.04				
9/3/2021								0.077	
2/8/2022							0.13	0.074	0.015 (J)
2/9/2022	0.0098 (J)	<0.04	<0.04	<0.04	<0.04				
2/10/2022									
2/11/2022						<0.04			
8/30/2022	0.013 (J)	<0.04	0.014 (J)		0.012 (J)				
8/31/2022				<0.04		<0.04	0.14	0.062	0.0091 (J)
9/1/2022									
2/7/2023	0.014 (J)	<0.04	<0.04	<0.04	<0.04		0.13		
2/8/2023						<0.04		0.057	0.011 (J)
8/15/2023	<0.04	<0.04	<0.04	<0.04	0.046 (J)		0.15 (J)	0.052 (J)	<0.04
8/16/2023						<0.04			
2/20/2024	<0.04	<0.04		<0.04	<0.04	<0.04	0.12	0.056	0.023 (J)
2/22/2024									
2/23/2024			0.018 (J)						
8/20/2024	<0.04	<0.04		<0.04	<0.04	<0.04			<0.04
8/21/2024			<0.04				0.13	0.061	
8/23/2024									
2/25/2025	0.0093 (J)	<0.04	<0.04	<0.04	0.0066 (J)	<0.04	0.13	0.061	0.014 (J)
2/26/2025									

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38
6/2/2016	
6/6/2016	
6/7/2016	
7/25/2016	
7/27/2016	
7/28/2016	
8/30/2016	
9/16/2016	
9/19/2016	
11/1/2016	
11/2/2016	
11/3/2016	
11/14/2016	
1/11/2017	
1/13/2017	
1/16/2017	
2/21/2017	
2/24/2017	
3/1/2017	
3/2/2017	
3/6/2017	
4/26/2017	
5/2/2017	
5/8/2017	
6/28/2017	
6/29/2017	
6/30/2017	
7/11/2017	
10/3/2017	
10/4/2017	
10/5/2017	
10/10/2017	
10/11/2017	
10/12/2017	19.3
11/20/2017	21.8
1/10/2018	
1/11/2018	
1/12/2018	18.7
2/19/2018	
2/20/2018	18.6
4/2/2018	
4/3/2018	20.9
6/5/2018	
6/6/2018	
6/7/2018	
6/11/2018	
6/28/2018	22.7
8/7/2018	19.1
9/19/2018	
9/24/2018	18.4
9/25/2018	
10/2/2018	

Time Series

Constituent: Boron (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38
3/26/2019	
3/27/2019	16.7
4/1/2019	
4/2/2019	
4/3/2019	
9/24/2019	
9/25/2019	
9/26/2019	
10/8/2019	
10/9/2019	13.5
3/17/2020	
3/19/2020	
3/24/2020	
3/25/2020	9.3
9/22/2020	
9/23/2020	
9/24/2020	
9/25/2020	8
3/1/2021	
3/3/2021	
3/4/2021	6.4
8/19/2021	
8/26/2021	6.1
8/27/2021	
9/1/2021	
9/3/2021	
2/8/2022	
2/9/2022	
2/10/2022	5.4
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	4.8
2/7/2023	
2/8/2023	4.1
8/15/2023	
8/16/2023	3.7
2/20/2024	
2/22/2024	3.7
2/23/2024	
8/20/2024	
8/21/2024	
8/23/2024	3.3
2/25/2025	
2/26/2025	3.1

Time Series

Constituent: Boron (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-41	YGWC-23S	YGWC-24SB	YGWC-36A	YGWC-42	YGWC-43	YGWC-49	YGWC-50	YAMW-1
6/7/2016		0.99							
6/8/2016			<0.04						
7/28/2016		1.09							
8/1/2016			0.0054 (J)						
8/30/2016					24.7				
8/31/2016						0.169			
9/1/2016							0.0113 (J)		
9/2/2016				0.133					
9/20/2016		1.35	0.0111 (J)						
11/8/2016		1.5	0.0121 (J)						
11/14/2016				0.287					
11/15/2016							0.0074 (J)		
11/16/2016					16.4	0.406			
1/16/2017		1.67							
1/17/2017			0.0079 (J)						
2/24/2017						0.725			
2/27/2017					17.9		<0.04		
2/28/2017				0.215					
3/8/2017			<0.04						
3/9/2017		1.44							
5/2/2017		1.2	0.0099 (J)						
5/9/2017				0.233			<0.04		
5/10/2017					20.4	0.955			
7/7/2017			0.0076 (J)						
7/10/2017		1.12							
7/11/2017					25.2	0.994			
7/13/2017				0.262			0.0093 (J)		
9/22/2017				0.238					
9/29/2017				0.235					
10/5/2017			<0.04						
10/6/2017				0.256					
10/11/2017		1.09		0.245			<0.04		
10/12/2017	12				20	1.15			
11/21/2017	12.1								
1/11/2018	12.8								
2/19/2018	15.2								
4/3/2018	14.5								
4/4/2018					22.7	1.2	0.0041 (J)		
6/12/2018		0.9	0.018 (J)						
6/13/2018				0.25					
6/27/2018	14.1								
8/7/2018	11.9								
9/20/2018					20.3	2.1	0.0042 (J)		
9/24/2018	12.2								
9/26/2018			0.0055 (J)	0.24					
9/27/2018		0.71							
10/16/2018									0.2
3/27/2019					20.3				
3/28/2019	7.1					1.8	<0.04		
4/4/2019		0.6	<0.04	0.22					
9/26/2019			0.0068 (J)	0.13			<0.04		0.092
9/27/2019		0.58							

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-41	YGWC-23S	YGWC-24SB	YGWC-36A	YGWC-42	YGWC-43	YGWC-49	YGWC-50	YAMW-1
10/9/2019	8.6				16.6	2.7			
1/15/2020									
3/25/2020	7.9			0.11	15.5	2.4	0.012 (J)		0.018 (J)
3/26/2020		0.94	0.033 (J)						
9/23/2020			<0.04						
9/24/2020		1.1			15.2		0.062 (J)		0.076 (J)
9/25/2020	6					3.9			
10/7/2020				0.018 (J)					
3/3/2021			<0.04						0.039 (J)
3/4/2021	4	1.2		0.0088 (J)	14.8	3.6	<0.04		
8/25/2021		1.3			13.5				
8/26/2021	3.3								
9/1/2021			<0.04				<0.04		0.18
9/3/2021				0.012 (J)					
9/27/2021						0.64			
2/8/2022	4					2.3	<0.04		
2/10/2022		1.5	<0.04		14.4				0.36
2/11/2022				0.019 (J)					
8/31/2022							0.011 (J)		0.58
9/1/2022	3.6	1.5		0.067	13.4	2.6			
2/8/2023	3.3	1.6			14.5	2.5			
2/9/2023				0.028 (J)			0.014 (J)		0.63
2/10/2023			<0.04						
8/16/2023	3.1	1.2	<0.04	0.058	7.1	2.8	0.012 (J)		0.55
8/17/2023								20.1	
12/20/2023								20.8	
2/21/2024		1.3					<0.04		
2/22/2024	3.5				15.5	2.3		22.1	
2/23/2024			0.016 (J)	0.11					1.5
6/10/2024								20	
8/21/2024		1.2							
8/22/2024			<0.04	0.16	12.4	3.5	0.035 (J)		2.3
8/23/2024	3.2							21.5	
11/26/2024								23.8	
2/26/2025	3.6			0.23 (J)	12.9		0.0087 (J)	23.5	2.4
2/27/2025		1.8				3.8			
3/17/2025			<0.04						
5/21/2025								21.1	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-2
6/7/2016	
6/8/2016	
7/28/2016	
8/1/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/20/2016	
11/8/2016	
11/14/2016	
11/15/2016	
11/16/2016	
1/16/2017	
1/17/2017	
2/24/2017	
2/27/2017	
2/28/2017	
3/8/2017	
3/9/2017	
5/2/2017	
5/9/2017	
5/10/2017	
7/7/2017	
7/10/2017	
7/11/2017	
7/13/2017	
9/22/2017	
9/29/2017	
10/5/2017	
10/6/2017	
10/11/2017	
10/12/2017	
11/21/2017	
1/11/2018	
2/19/2018	
4/3/2018	
4/4/2018	
6/12/2018	
6/13/2018	
6/27/2018	
8/7/2018	
9/20/2018	
9/24/2018	
9/26/2018	
9/27/2018	
10/16/2018	
3/27/2019	
3/28/2019	
4/4/2019	
9/26/2019	
9/27/2019	

Time Series

Constituent: Boron (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-2
10/9/2019	
1/15/2020	0.031 (J)
3/25/2020	
3/26/2020	
9/23/2020	0.026 (J)
9/24/2020	
9/25/2020	
10/7/2020	
3/3/2021	0.032 (J)
3/4/2021	
8/25/2021	
8/26/2021	
9/1/2021	0.017 (J)
9/3/2021	
9/27/2021	
2/8/2022	
2/10/2022	0.022 (J)
2/11/2022	
8/31/2022	
9/1/2022	0.046
2/8/2023	0.031 (J)
2/9/2023	
2/10/2023	
8/16/2023	
8/17/2023	0.04
12/20/2023	
2/21/2024	
2/22/2024	0.019 (J)
2/23/2024	
6/10/2024	
8/21/2024	0.034 (J)
8/22/2024	
8/23/2024	
11/26/2024	
2/26/2025	0.052
2/27/2025	
3/17/2025	
5/21/2025	

Time Series

Constituent: Boron (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-3	YAMW-4	YAMW-5	PZ-35	PZ-37D	PZ-37	PZ-51	PZ-52D	PZ-54D
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			
6/29/2018						20.6			
8/6/2018						15.9			
8/30/2018				0.04					
9/24/2018						16.5			
10/16/2018				0.031 (J)					
9/26/2019				<0.04					
1/15/2020			8.7						
1/16/2020	6.8	1.9							
2/11/2020	4.5		7.8						
3/25/2020				0.071 (J)					
9/23/2020		2.5							
9/24/2020			8.7	0.017 (J)					
9/25/2020						14.1			
3/3/2021		0.81							
3/4/2021			6.1	0.012 (J)		12.4			
5/13/2021					1.3				
8/25/2021		2.8				10.3			
8/26/2021			5.9						
9/1/2021				0.044					
9/3/2021					1.6				
11/4/2021								0.69	
2/10/2022	7.7	3	4.9	0.054		9.5	6.8		
2/11/2022					0.44			0.84	
4/4/2022						9.2			
4/7/2022						9.7			
8/31/2022				0.052					
9/1/2022	7.1	3.2	6.1		0.83	9.9	7.2	1.2	
2/8/2023		3	6.5		0.7	8.2		1.2	
2/9/2023	8.1			0.076			6.9		
8/16/2023	5	3.2	6.4	0.13	0.75		7.1		
8/17/2023						9.5		1.9	
2/21/2024	8.6				0.57	7.8		1.6	
2/22/2024		3.8	6.7				6.4		
2/23/2024				0.2					
6/12/2024									2.8
8/21/2024					0.96	7.6		1.9	
8/22/2024	9.6			0.15			7.6		
8/23/2024		4.2	8.6						
11/7/2024									1.8
2/25/2025				0.25					
2/26/2025	10.3	4.7							
2/27/2025			7.4		0.72	9.6	7.3	2.2	1.6

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	PZ-55
10/12/2017	
11/21/2017	
1/11/2018	
2/20/2018	
4/3/2018	
6/29/2018	
8/6/2018	
8/30/2018	
9/24/2018	
10/16/2018	
9/26/2019	
1/15/2020	
1/16/2020	
2/11/2020	
3/25/2020	
9/23/2020	
9/24/2020	
9/25/2020	
3/3/2021	
3/4/2021	
5/13/2021	
8/25/2021	
8/26/2021	
9/1/2021	
9/3/2021	
11/4/2021	
2/10/2022	
2/11/2022	
4/4/2022	
4/7/2022	
8/31/2022	
9/1/2022	
2/8/2023	
2/9/2023	
8/16/2023	
8/17/2023	
2/21/2024	
2/22/2024	3.5
2/23/2024	
6/12/2024	
8/21/2024	3.1
8/22/2024	
8/23/2024	
11/7/2024	
2/25/2025	
2/26/2025	
2/27/2025	3.8

Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
5/1/2007	<0.0005								
9/12/2007	<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			<0.0005			
6/2/2016					<0.0005		<0.0005	<0.0005	<0.0005
7/21/2016	<0.0005								
7/25/2016			<0.0005			<0.0005			
7/26/2016		<0.0005			<0.0005		<0.0005	<0.0005	<0.0005
8/31/2016	<0.0005								
9/13/2016		<0.0005	<0.0005						
9/14/2016				<0.0005		<0.0005	<0.0005	<0.0005	<0.0005
9/15/2016					<0.0005				
11/1/2016		<0.0005			<0.0005	<0.0005			
11/2/2016							<0.0005	<0.0005	
11/4/2016			<0.0005	<0.0005					<0.0005
11/28/2016	<0.0005								
12/15/2016				<0.0005					
1/10/2017									
1/11/2017		0.0002 (J)			0.0001 (J)	8E-05 (J)			
1/12/2017								<0.0005	9E-05 (J)
1/13/2017							<0.0005		
1/16/2017			<0.0005	<0.0005					
2/22/2017	<0.0005								
3/1/2017						<0.0005			
3/2/2017		<0.0005	<0.0005		<0.0005				
3/3/2017				<0.0005					
3/6/2017							<0.0005		
3/7/2017								<0.0005	<0.0005
3/8/2017									
4/26/2017					<0.0005	<0.0005			
4/27/2017		<0.0005	<0.0005						
4/28/2017				<0.0005					
5/1/2017							<0.0005	<0.0005	
5/2/2017									<0.0005
5/8/2017	<0.0005								
5/26/2017				<0.0005					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/27/2017		<0.0005	<0.0005					<0.0005	<0.0005
6/28/2017				<0.0005	<0.0005	<0.0005			
6/29/2017							<0.0005		
6/30/2017									
7/17/2017	<0.0005								
10/16/2017	<0.0005								
2/19/2018	<0.0005								
3/27/2018			<0.0005						
3/28/2018				<0.0005	<0.0005	<0.0005			
3/29/2018		<0.0005					<0.0005	<0.0005	<0.0005
6/6/2018								<0.0005	
6/7/2018							<0.0005		<0.0005
8/6/2018	<0.0005								
9/26/2018							<0.0005	<0.0005	<0.0005
2/25/2019	<0.0005								
2/26/2019									
2/27/2019		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			
3/4/2019							<0.0005	<0.0005	<0.0005
3/28/2019		<0.0005	<0.0005						
3/29/2019				<0.0005					
4/1/2019					<0.0005	<0.0005			
4/3/2019							<0.0005	<0.0005	<0.0005
6/12/2019	<0.0005								
8/19/2019	<0.0005								
9/24/2019		<0.0005	<0.0005	<0.0005				<0.0005	<0.0005
9/25/2019					<0.0005	<0.0005	<0.0005		
10/8/2019	<0.0005								
2/10/2020		<0.0005	<0.0005						
2/11/2020				<0.0005		<0.0005			
2/12/2020					<0.0005		<0.0005	<0.0005	<0.0005
3/17/2020	<0.0005								
3/18/2020			<0.0005						
3/19/2020		<0.0005		<0.0005	<0.0005	<0.0005			
3/24/2020								<0.0005	<0.0005
3/25/2020							<0.0005		
8/26/2020	<0.0005								
9/22/2020	<0.0005						<0.0005	<0.0005	<0.0005
9/23/2020		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			
9/25/2020									
2/8/2021								<0.0005	<0.0005
2/9/2021							<0.0005		
2/10/2021				<0.0005	<0.0005	<0.0005			
2/12/2021		<0.0005	<0.0005						
3/2/2021	<0.0005							<0.0005	<0.0005
3/3/2021		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
8/19/2021		<0.0005	<0.0005		<0.0005				
8/20/2021	<0.0005								
8/26/2021							<0.0005	<0.0005	<0.0005
8/27/2021				<0.0005		<0.0005			
2/8/2022	<0.0005								
2/9/2022		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			
2/10/2022								<0.0005	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
2/11/2022							<0.0005		
8/30/2022	<0.0005	<0.0005		<0.0005				<0.0005	<0.0005
8/31/2022			<0.0005		<0.0005	<0.0005	<0.0005		
2/7/2023	0.00012 (J)	<0.0005	<0.0005	<0.0005				<0.0005	
2/8/2023					<0.0005	0.00013 (J)			
2/9/2023							<0.0005		<0.0005
8/15/2023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005
8/16/2023						<0.0005			
2/20/2024	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2/23/2024									
8/20/2024		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00019 (J)	<0.0005	<0.0005
2/25/2025		<0.0005	<0.0005	<0.0005	0.00051	0.00046 (J)	<0.0005	<0.0005	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (bg)
5/1/2007	
9/12/2007	
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	
6/2/2016	<0.0005
7/21/2016	
7/25/2016	
7/26/2016	<0.0005
8/31/2016	
9/13/2016	
9/14/2016	
9/15/2016	<0.0005
11/1/2016	
11/2/2016	<0.0005
11/4/2016	
11/28/2016	
12/15/2016	
1/10/2017	<0.0005
1/11/2017	
1/12/2017	
1/13/2017	
1/16/2017	
2/22/2017	
3/1/2017	
3/2/2017	
3/3/2017	
3/6/2017	
3/7/2017	
3/8/2017	7E-05 (J)
4/26/2017	<0.0005
4/27/2017	
4/28/2017	
5/1/2017	
5/2/2017	
5/8/2017	
5/26/2017	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (bg)
6/27/2017	
6/28/2017	
6/29/2017	
6/30/2017	<0.0005
7/17/2017	
10/16/2017	
2/19/2018	
3/27/2018	<0.0005
3/28/2018	
3/29/2018	
6/6/2018	
6/7/2018	
8/6/2018	
9/26/2018	
2/25/2019	
2/26/2019	<0.0005
2/27/2019	
3/4/2019	
3/28/2019	
3/29/2019	<0.0005
4/1/2019	
4/3/2019	
6/12/2019	
8/19/2019	
9/24/2019	
9/25/2019	<0.0005
10/8/2019	
2/10/2020	
2/11/2020	
2/12/2020	<0.0005
3/17/2020	
3/18/2020	<0.0005
3/19/2020	
3/24/2020	
3/25/2020	
8/26/2020	
9/22/2020	
9/23/2020	
9/25/2020	<0.0005
2/8/2021	
2/9/2021	
2/10/2021	<0.0005
2/12/2021	
3/2/2021	<0.0005
3/3/2021	
8/19/2021	<0.0005
8/20/2021	
8/26/2021	
8/27/2021	
2/8/2022	
2/9/2022	
2/10/2022	<0.0005

Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (bg)
2/11/2022	
8/30/2022	
8/31/2022	<0.0005
2/7/2023	
2/8/2023	<0.0005
2/9/2023	
8/15/2023	<0.0005
8/16/2023	
2/20/2024	
2/23/2024	<0.0005
8/20/2024	<0.0005
2/25/2025	<0.0005

Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)
6/2/2016						<0.0005			
6/6/2016		<0.0005	<0.0005						
6/7/2016	<0.0005			<0.0005	<0.0005				
7/25/2016						<0.0005			
7/27/2016	<0.0005	<0.0005	<0.0005	<0.0005					
7/28/2016					<0.0005				
8/30/2016									0.0001 (J)
9/16/2016	<0.0005		<0.0005						
9/19/2016		<0.0005		<0.0005	<0.0005	<0.0005			
11/1/2016						<0.0005			
11/2/2016				<0.0005					
11/3/2016	<0.0005	<0.0005	<0.0005		<0.0005				
11/14/2016									0.0001 (J)
1/11/2017	0.0001 (J)	<0.0005	0.0001 (J)						
1/13/2017				<0.0005	<0.0005				
1/16/2017						<0.0005			
2/21/2017						<0.0005			
2/24/2017									9E-05 (J)
3/1/2017		<0.0005	<0.0005						
3/2/2017	<0.0005								
3/6/2017				<0.0005	<0.0005				
4/26/2017		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			
5/2/2017	<0.0005								
5/8/2017									0.0001 (J)
6/28/2017		<0.0005	<0.0005						
6/29/2017	<0.0005			<0.0005	<0.0005				
6/30/2017						<0.0005			
7/11/2017									<0.0005
10/10/2017									<0.0005
10/11/2017							<0.0005		
10/12/2017								<0.0005	
11/20/2017							<0.0005	<0.0005	
1/10/2018								<0.0005	
1/11/2018							<0.0005		
1/12/2018									
2/19/2018								<0.0005	
2/20/2018							<0.0005		
3/27/2018						<0.0005			
3/28/2018	<0.0005	<0.0005	<0.0005						
3/29/2018				<0.0005	<0.0005				
4/2/2018									<0.0005
4/3/2018							<0.0005	<0.0005	
6/5/2018					<0.0005				
6/6/2018				<0.0005					
6/7/2018		<0.0005							
6/11/2018	<0.0005		<0.0005						
6/28/2018							<0.0005	<0.0005	
8/7/2018							<0.0005	<0.0005	
9/19/2018									<0.0005
9/24/2018							<0.0005	<0.0005	
9/25/2018	<0.0005	<0.0005	<0.0005	<0.0005	9.6E-05 (J)				
2/26/2019						<0.0005			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)
3/5/2019	<0.0005		<0.0005	<0.0005	<0.0005				
3/6/2019		<0.0005							
4/1/2019						<0.0005			
4/2/2019	<0.0005				<0.0005				
4/3/2019		<0.0005	<0.0005	<0.0005					
8/20/2019									<0.0005
8/21/2019							<0.0005	<0.0005	
8/22/2019									
9/24/2019					<0.0005				
9/25/2019	<0.0005			<0.0005		<0.0005			
9/26/2019		<0.0005	<0.0005						
10/8/2019									<0.0005
10/9/2019							<0.0005	<0.0005	
2/11/2020	<0.0005	<0.0005	<0.0005						
2/12/2020				<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
2/14/2020									
3/17/2020									<0.0005
3/19/2020						<0.0005			
3/24/2020	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			<0.0005	
3/25/2020							<0.0005		
8/27/2020									<0.0005
9/23/2020	<0.0005	<0.0005	<0.0005						
9/24/2020				<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
9/25/2020									
2/9/2021	<0.0005	<0.0005	<0.0005	<0.0005	0.00041 (J)				
2/10/2021							0.00019 (J)	<0.0005	
2/11/2021						<0.0005			
3/1/2021						<0.0005			
3/3/2021	<0.0005	<0.0005	<0.0005	<0.0005					
3/4/2021					<0.0005		0.0003 (J)	<0.0005	
8/19/2021						<0.0005			<0.0005
8/26/2021			<0.0005				0.00049 (J)		
8/27/2021	<0.0005	<0.0005		<0.0005					
9/1/2021					<0.0005				
9/3/2021								<0.0005	
2/8/2022							0.00063	<0.0005	<0.0005
2/9/2022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005				
2/10/2022									
2/11/2022						<0.0005			
8/30/2022	<0.0005	<0.0005	<0.0005		<0.0005				
8/31/2022				<0.0005		<0.0005	0.00044 (J)	<0.0005	<0.0005
9/1/2022									
2/7/2023	<0.0005	<0.0005	<0.0005	<0.0005	0.00012 (J)		0.00014 (J)		
2/8/2023						<0.0005		<0.0005	0.00032 (J)
8/15/2023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005
8/16/2023						<0.0005			
2/20/2024	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2/22/2024									
2/23/2024			<0.0005						
8/20/2024	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005			<0.0005
8/21/2024			<0.0005				<0.0005	<0.0005	
8/23/2024									

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)
2/25/2025	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2/26/2025									

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38
6/2/2016	
6/6/2016	
6/7/2016	
7/25/2016	
7/27/2016	
7/28/2016	
8/30/2016	
9/16/2016	
9/19/2016	
11/1/2016	
11/2/2016	
11/3/2016	
11/14/2016	
1/11/2017	
1/13/2017	
1/16/2017	
2/21/2017	
2/24/2017	
3/1/2017	
3/2/2017	
3/6/2017	
4/26/2017	
5/2/2017	
5/8/2017	
6/28/2017	
6/29/2017	
6/30/2017	
7/11/2017	
10/10/2017	
10/11/2017	
10/12/2017	0.003
11/20/2017	0.0027
1/10/2018	
1/11/2018	
1/12/2018	0.0029
2/19/2018	
2/20/2018	0.0029
3/27/2018	
3/28/2018	
3/29/2018	
4/2/2018	
4/3/2018	0.0027
6/5/2018	
6/6/2018	
6/7/2018	
6/11/2018	
6/28/2018	0.0029
8/7/2018	0.0027
9/19/2018	
9/24/2018	0.0027
9/25/2018	
2/26/2019	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38
3/5/2019	
3/6/2019	
4/1/2019	
4/2/2019	
4/3/2019	
8/20/2019	
8/21/2019	
8/22/2019	0.0023 (J)
9/24/2019	
9/25/2019	
9/26/2019	
10/8/2019	
10/9/2019	0.0021 (J)
2/11/2020	
2/12/2020	
2/14/2020	0.0021 (J)
3/17/2020	
3/19/2020	
3/24/2020	
3/25/2020	0.0018 (J)
8/27/2020	
9/23/2020	
9/24/2020	
9/25/2020	0.0015 (J)
2/9/2021	0.0014 (J)
2/10/2021	
2/11/2021	
3/1/2021	
3/3/2021	
3/4/2021	0.0013
8/19/2021	
8/26/2021	0.0011
8/27/2021	
9/1/2021	
9/3/2021	
2/8/2022	
2/9/2022	
2/10/2022	0.0011
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	0.00094
2/7/2023	
2/8/2023	0.00068
8/15/2023	
8/16/2023	0.00074
2/20/2024	
2/22/2024	0.00074
2/23/2024	
8/20/2024	
8/21/2024	
8/23/2024	0.00063

Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38
2/25/2025	
2/26/2025	0.00064

Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-41	YGWC-23S	YGWC-24SB	YGWC-36A	YGWC-42	YGWC-43	YGWC-49	YGWC-50	YAMW-1
6/7/2016		<0.0005							
6/8/2016			<0.0005						
7/28/2016		<0.0005							
8/1/2016			<0.0005						
8/30/2016					<0.0005				
8/31/2016						<0.0005			
9/1/2016							<0.0005		
9/2/2016				<0.001					
9/20/2016		<0.0005	<0.0005						
11/8/2016		7E-05 (J)	<0.0005						
11/14/2016				9E-05 (J)					
11/15/2016							<0.0005		
11/16/2016					<0.0005	<0.0005			
1/16/2017		<0.0005							
1/17/2017			<0.0005						
2/24/2017						<0.0005			
2/27/2017					<0.0005		7E-05 (J)		
2/28/2017				0.0001 (J)					
3/8/2017			<0.0005						
3/9/2017		<0.0005							
5/2/2017		<0.0005	<0.0005						
5/9/2017				0.0002 (J)			<0.0005		
5/10/2017					0.0002 (J)	<0.0005			
7/7/2017			<0.0005						
7/10/2017		<0.0005							
7/11/2017					0.0005 (J)	<0.0005			
7/13/2017				0.0002 (J)			<0.0005		
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	0.0002 (J)				0.0006 (J)	<0.0005			
11/21/2017	0.0003 (J)								
1/11/2018	0.0002 (J)								
2/19/2018	<0.0005								
3/30/2018		<0.0005	<0.0005	<0.001					
4/3/2018	<0.0005								
4/4/2018					<0.0005	<0.0005	<0.0005		
6/12/2018		<0.0005	<0.0005						
6/13/2018				0.00019 (J)					
6/27/2018	0.00025 (J)								
8/7/2018	0.00024 (J)								
9/20/2018					0.0002 (J)	<0.0005	<0.0005		
9/24/2018	0.00021 (J)								
9/26/2018			<0.0005	0.00018 (J)					
9/27/2018		<0.0005							
10/16/2018									0.00014 (J)
3/5/2019			<0.0005						
3/6/2019		<0.0005		0.00015 (J)					
4/4/2019		<0.0005	<0.0005	0.00019 (J)					
8/21/2019						<0.0005			
8/22/2019	0.00015 (J)				0.00017 (J)				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-41	YGWC-23S	YGWC-24SB	YGWC-36A	YGWC-42	YGWC-43	YGWC-49	YGWC-50	YAMW-1
9/26/2019			<0.0005	0.00017 (J)			<0.0005		<0.0005
9/27/2019		<0.0005							
10/9/2019	0.00017 (J)				0.00025 (J)	<0.0005			
2/13/2020			<0.0005						
2/14/2020	0.0002 (J)			0.00017 (J)	0.00025 (J)				
2/17/2020		<0.0005				<0.0005	<0.0005		
3/25/2020	0.00018 (J)			0.00019 (J)	0.00021 (J)	<0.0005	<0.0005		<0.0005
3/26/2020		<0.0005	<0.0005						
9/23/2020			<0.0005						
9/24/2020		<0.0005			0.00014 (J)		<0.0005		0.00017 (J)
9/25/2020	0.00014 (J)					<0.0005			
10/7/2020				0.00012 (J)					
2/9/2021		<0.0005	<0.0005			<0.0005	<0.0005		0.00013 (J)
2/10/2021	<0.0005			<0.0005	<0.0005				
3/3/2021			<0.0005						<0.0005
3/4/2021	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005		
8/25/2021		<0.0005			<0.0005				
8/26/2021	<0.0005								
9/1/2021			<0.0005				<0.0005		0.00023 (J)
9/3/2021				<0.0005					
9/27/2021						<0.0005			
2/8/2022	0.00012 (J)					<0.0005	<0.0005		
2/10/2022		<0.0005	<0.0005		<0.0005				0.00018 (J)
2/11/2022				<0.0005					
8/31/2022							<0.0005		0.00015 (J)
9/1/2022	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005			
2/8/2023	<0.0005	<0.0005			0.00014 (J)	<0.0005			
2/9/2023				<0.0005			<0.0005		<0.0005
2/10/2023			<0.0005						
8/16/2023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		0.00021 (J)
8/17/2023								0.018	
12/20/2023								0.012	
2/21/2024		<0.0005					<0.0005		
2/22/2024	<0.0005				<0.0005	<0.0005		0.011	
2/23/2024			<0.0005	<0.0005					0.00023 (J)
6/10/2024								0.013	
8/21/2024		<0.0005							
8/22/2024			<0.0005	0.00014 (J)	<0.0005	<0.0005	<0.0005		0.00018 (J)
8/23/2024	<0.0005							0.01	
11/26/2024								0.015	
2/26/2025	<0.0005			0.00019 (J)	<0.0005		<0.0005	0.011	0.00021 (J)
2/27/2025		<0.0005				<0.0005			
3/17/2025			<0.0005						
5/21/2025								0.0079	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-2
6/7/2016	
6/8/2016	
7/28/2016	
8/1/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/20/2016	
11/8/2016	
11/14/2016	
11/15/2016	
11/16/2016	
1/16/2017	
1/17/2017	
2/24/2017	
2/27/2017	
2/28/2017	
3/8/2017	
3/9/2017	
5/2/2017	
5/9/2017	
5/10/2017	
7/7/2017	
7/10/2017	
7/11/2017	
7/13/2017	
9/22/2017	
9/29/2017	
10/6/2017	
10/11/2017	
10/12/2017	
11/21/2017	
1/11/2018	
2/19/2018	
3/30/2018	
4/3/2018	
4/4/2018	
6/12/2018	
6/13/2018	
6/27/2018	
8/7/2018	
9/20/2018	
9/24/2018	
9/26/2018	
9/27/2018	
10/16/2018	
3/5/2019	
3/6/2019	
4/4/2019	
8/21/2019	
8/22/2019	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-2
9/26/2019	
9/27/2019	
10/9/2019	
2/13/2020	
2/14/2020	
2/17/2020	
3/25/2020	
3/26/2020	
9/23/2020	<0.0005
9/24/2020	
9/25/2020	
10/7/2020	
2/9/2021	<0.0005
2/10/2021	
3/3/2021	<0.0005
3/4/2021	
8/25/2021	
8/26/2021	
9/1/2021	<0.0005
9/3/2021	
9/27/2021	
2/8/2022	
2/10/2022	<0.0005
2/11/2022	
8/31/2022	
9/1/2022	0.00015 (J)
2/8/2023	<0.0005
2/9/2023	
2/10/2023	
8/16/2023	
8/17/2023	<0.0005
12/20/2023	
2/21/2024	
2/22/2024	<0.0005
2/23/2024	
6/10/2024	
8/21/2024	<0.0005
8/22/2024	
8/23/2024	
11/26/2024	
2/26/2025	<0.0005
2/27/2025	
3/17/2025	
5/21/2025	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-3	YAMW-4	YAMW-5	PZ-35	PZ-37D	PZ-37	PZ-51	PZ-52D	PZ-54D
10/12/2017						0.0002 (J)			
11/21/2017						0.0002 (J)			
1/11/2018						0.0004 (J)			
2/20/2018						<0.001			
4/3/2018						<0.001			
6/29/2018						0.00099 (J)			
8/6/2018						0.00063 (J)			
9/24/2018						0.00069 (J)			
10/16/2018				<0.0005					
9/26/2019				<0.0005					
3/25/2020				0.00016 (J)					
9/23/2020		<0.0005							
9/24/2020			0.00018 (J)	<0.0005					
9/25/2020						0.00039 (J)			
2/9/2021		<0.0005	0.00025 (J)			0.00042 (J)			
2/10/2021				<0.0005					
3/3/2021		<0.0005							
3/4/2021			0.00018 (J)	<0.0005		0.00028 (J)			
5/13/2021					<0.0005				
8/25/2021		<0.0005				0.00094			
8/26/2021			0.00021 (J)						
9/1/2021				<0.0005					
9/3/2021					<0.0005				
11/4/2021								<0.0005	
2/10/2022	<0.0005	<0.0005	0.00022 (J)	<0.0005		0.00093	0.0019		
2/11/2022					<0.0005			<0.0005	
4/4/2022						0.00089			
4/7/2022						0.00082			
8/31/2022				0.00011 (J)					
9/1/2022	<0.0005	<0.0005	0.00023 (J)		<0.0005	0.0009	0.0017	<0.0005	
2/8/2023		<0.0005	0.00046 (J)		<0.0005	0.00076		<0.0005	
2/9/2023	<0.0005			0.00025 (J)			0.0018		
8/16/2023	0.00048 (J)	<0.0005	0.00022 (J)	0.0002 (J)	<0.0005		0.0017		
8/17/2023						0.00085		<0.0005	
2/21/2024	0.00035 (J)				<0.0005	0.00086		<0.0005	
2/22/2024		<0.0005	0.00022 (J)				0.0017		
2/23/2024				0.00027 (J)					
6/12/2024									0.00042 (J)
8/21/2024					<0.0005	0.00081		<0.0005	
8/22/2024	0.00025 (J)			0.00021 (J)			0.0017		
8/23/2024		<0.0005	0.00023 (J)						
11/7/2024									0.00038 (J)
2/25/2025				0.00074					
2/26/2025	0.00022 (J)	<0.0005							
2/27/2025			0.00021 (J)		<0.0005	0.00078	0.0018	0.00025 (J)	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	PZ-55
10/12/2017	
11/21/2017	
1/11/2018	
2/20/2018	
4/3/2018	
6/29/2018	
8/6/2018	
9/24/2018	
10/16/2018	
9/26/2019	
3/25/2020	
9/23/2020	
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	
3/3/2021	
3/4/2021	
5/13/2021	
8/25/2021	
8/26/2021	
9/1/2021	
9/3/2021	
11/4/2021	
2/10/2022	
2/11/2022	
4/4/2022	
4/7/2022	
8/31/2022	
9/1/2022	
2/8/2023	
2/9/2023	
8/16/2023	
8/17/2023	
2/21/2024	
2/22/2024	0.00069
2/23/2024	
6/12/2024	
8/21/2024	0.00081
8/22/2024	
8/23/2024	
11/7/2024	
2/25/2025	
2/26/2025	
2/27/2025	0.00071

Time Series

Constituent: Calcium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/1/2016		12	2.5			21			
6/2/2016					28		8.8	33	2.4
7/25/2016			2.16			20.3			
7/26/2016		11			24.5		7.69	32.3	2.12
8/31/2016	9.31								
9/13/2016		11.8	2.21						
9/14/2016				23.5		19.7	8.49	31	2.18
9/15/2016					27				
11/1/2016		11			25.6	18.4			
11/2/2016							7.83	30.9	
11/4/2016			2.67	23.7					2.17 (J)
11/28/2016	9.47								
12/15/2016				23.1					
1/10/2017									
1/11/2017		11.2			27.5	20.3			
1/12/2017								35.7	2.37
1/13/2017							8.08		
1/16/2017			2.45	23.3					
2/22/2017	10.4								
3/1/2017						18.6			
3/2/2017		11	2.57		27.5				
3/3/2017				25.1					
3/6/2017							8.64		
3/7/2017								32.7	2.34
3/8/2017									
4/26/2017					30.4	25.6			
4/27/2017		11.1	2.38						
4/28/2017				30.7					
5/1/2017							13.4	37	
5/2/2017									2.17
5/8/2017	14.2								
5/26/2017				26.2					
6/27/2017		13.8	2.36					36.5	2.13
6/28/2017				26.1	29.8	23.9			
6/29/2017							8.81		
6/30/2017									
7/17/2017	14.1								
10/3/2017		14	2.21	26.7				30.9	2.15
10/4/2017					29.7	22.1			
10/5/2017							9.29		
10/16/2017	13.6								
2/19/2018	<25								
6/5/2018		15.2 (J)							
6/6/2018			2.3					26.2	
6/7/2018				25	29.1		8.2		2.3
6/8/2018						21.9 (J)			
8/6/2018	11.4 (J)								
9/26/2018							9.5 (J)	25.8	2.3
10/1/2018		15.1	1.8	25	26.9	19.7			
2/25/2019	12.7 (J)								
3/28/2019		13.3 (J)	2.2						
3/29/2019				23.5 (J)					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
4/1/2019					30.1	20.4 (J)			
4/3/2019							8.4	24.7 (J)	2.8
6/12/2019	18.9								
9/24/2019		15.8	2.3	26.4				25.8	2.5
9/25/2019					29.5	22.4	9.5		
10/8/2019	28.3								
10/10/2019							9.9	24.2	2.4
3/17/2020	24.3								
3/18/2020			2.1						
3/19/2020		15		27.4	31.5	21.9			
3/24/2020								26.1	2.5
3/25/2020							10.5		
9/22/2020	31						9.6	27.2	2.6
9/23/2020		14.1	1.8	26.3	28.6	23.6			
9/25/2020									
3/2/2021	34.2							1.6	2.6
3/3/2021		14.1	1.8	25.6	29.8	20.6	7.7		
8/19/2021		14.2	2		28.1				
8/20/2021	26.5								
8/26/2021							7.6	25.2	2.5
8/27/2021				22.6		24.7			
2/8/2022	25.6								
2/9/2022		14.9	2.1	23.4	30.3	23.7			
2/10/2022								24.8	2.5
2/11/2022							7.5		
8/30/2022	23.5	14.9		25.4				24.8	2.5
8/31/2022			1.9		28.7	23.5	8.9		
2/7/2023	22.3	15	2.2	25.6				26.6	
2/8/2023					28.9	23.3			
2/9/2023							9.6		2.8
8/15/2023	20.3	13.5	1.8	23.2	27.4		7.8	25	2.6
8/16/2023						24.9			
2/20/2024	22.8	15.3	2.2	28.2	30.7	23.7	9.9	27.2	2.7
2/23/2024									
8/20/2024		17.7	1.9	30.4	30	23.4	9.1	29.1	3.2
2/25/2025		16.4	1.8	27.3	27.9	21.2	8.1	25.9	2.8

Time Series

Constituent: Calcium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (bg)
6/1/2016	
6/2/2016	1.3
7/25/2016	
7/26/2016	1.24
8/31/2016	
9/13/2016	
9/14/2016	
9/15/2016	1.17
11/1/2016	
11/2/2016	1.23
11/4/2016	
11/28/2016	
12/15/2016	
1/10/2017	1.24
1/11/2017	
1/12/2017	
1/13/2017	
1/16/2017	
2/22/2017	
3/1/2017	
3/2/2017	
3/3/2017	
3/6/2017	
3/7/2017	
3/8/2017	1.21
4/26/2017	1.14
4/27/2017	
4/28/2017	
5/1/2017	
5/2/2017	
5/8/2017	
5/26/2017	
6/27/2017	
6/28/2017	
6/29/2017	
6/30/2017	1.24
7/17/2017	
10/3/2017	
10/4/2017	
10/5/2017	1.11
10/16/2017	
2/19/2018	
6/5/2018	
6/6/2018	
6/7/2018	
6/8/2018	1.1
8/6/2018	
9/26/2018	
10/1/2018	0.99
2/25/2019	
3/28/2019	
3/29/2019	1.1

Time Series

Constituent: Calcium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (bg)
4/1/2019	
4/3/2019	
6/12/2019	
9/24/2019	
9/25/2019	1.1
10/8/2019	
10/10/2019	
3/17/2020	
3/18/2020	1.1
3/19/2020	
3/24/2020	
3/25/2020	
9/22/2020	
9/23/2020	
9/25/2020	1.3
3/2/2021	1.2
3/3/2021	
8/19/2021	1.2
8/20/2021	
8/26/2021	
8/27/2021	
2/8/2022	
2/9/2022	
2/10/2022	1.3
2/11/2022	
8/30/2022	
8/31/2022	1.3
2/7/2023	
2/8/2023	1.5
2/9/2023	
8/15/2023	1.3
8/16/2023	
2/20/2024	
2/23/2024	1.6
8/20/2024	1.3
2/25/2025	1.3

Time Series

Constituent: Calcium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)
6/2/2016						1.3			
6/6/2016		6.2	1.4						
6/7/2016	2.2			2.3	3.7				
7/25/2016						1.17			
7/27/2016	2	4.73	1.19	2.08					
7/28/2016					3.15				
8/30/2016									20.9
9/16/2016	1.97		1.5						
9/19/2016		4.76		1.97	3.17	1.05			
11/1/2016						1.14			
11/2/2016				2.13					
11/3/2016	1.99	5.25	1.31		3.4				
11/14/2016									18.6
1/11/2017	2.28	4.74	1.25						
1/13/2017				2.45	4.98				
1/16/2017						1.23			
2/21/2017						1.25			
2/24/2017									16.1
3/1/2017		5.37	1.26						
3/2/2017	2.15								
3/6/2017				2.48	6.28				
4/26/2017		4.28	1.05	2.3	6.65	1.03			
5/2/2017	1.95								
5/8/2017									14.6
6/28/2017		4.95	1.06						
6/29/2017	2.02			2.54	6.04				
6/30/2017						1.13			
7/11/2017									14.3
10/3/2017					8.28				
10/4/2017	2.03		1.1	2.25		1.09			
10/5/2017		5.28							
10/10/2017									12.1
10/11/2017							2.74		
10/12/2017								2.9	
11/20/2017							1.81	10.4	
1/10/2018								10.2	
1/11/2018							1.54		
1/12/2018									
2/19/2018								<25	
2/20/2018							1.7		
4/2/2018									<25
4/3/2018							1.4	6.3	
6/5/2018					9.1				
6/6/2018				2.3					
6/7/2018		4.8							
6/11/2018	2.1		1.4			1.1			
6/28/2018							1.4	6.7	
8/7/2018							1.2	6.3	
9/19/2018									11.1 (J)
9/24/2018							1.1	5.7	
9/25/2018	2.1	4.6	1	2.3	10.4 (J)				
10/2/2018						1.1			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)
3/26/2019								5.6	
3/27/2019							1.5		10.8 (J)
4/1/2019						1.3			
4/2/2019	2.5				8.8				
4/3/2019		5.3	1.2	2.9					
9/24/2019					7.7				
9/25/2019	2.6			2.4		1.1			
9/26/2019		5.075 (D)	1.085 (D)						
10/8/2019									9.7
10/9/2019							2.4 (D)	5.05 (D)	
10/10/2019	2.4			2.6	5.6				
3/17/2020									14.8
3/19/2020						1.2			
3/24/2020	2.7	5.3	1	2.6	6			4.8	
3/25/2020							2.7		
9/22/2020									10.1
9/23/2020	2.6	5.2	0.91 (J)						
9/24/2020				2.6	7.8	1.1	3.7	4.4	
9/25/2020									
3/1/2021						1.2			10.3
3/3/2021	2.5	5.2	0.96 (J)	2.4					
3/4/2021					8.7		8.2	4.6	
8/19/2021						1.2			9.6
8/26/2021			0.98 (J)				14.1		
8/27/2021	2.7	5.1		2.4					
9/1/2021					9.5				
9/3/2021								5.6	
2/8/2022							15.2	6	9.4
2/9/2022	2.8	5.1	0.87 (J)	2.3	9.8				
2/10/2022									
2/11/2022						1.5			
8/30/2022	3	5.7	0.77 (J)		7.3				
8/31/2022				2.4		1.3	16.3	6.2	9.6
9/1/2022									
2/7/2023	2.9	5.5	0.79 (J)	2.4	7.5		16.1		
2/8/2023						1.3		5.9	9.2
8/15/2023	2.9	5.1	0.8 (J)	2.2	6.1		17.2	5.3	9.6
8/16/2023						1.4			
2/20/2024	3.2	5.6		2.5	7	1.3	16.9	5.6	10.3
2/22/2024									
2/23/2024			0.84 (J)						
8/20/2024	3.5	5.9		2.8	6.9	1.4			10
8/21/2024			0.96 (J)				19.7	6	
8/23/2024									
2/25/2025	3	5.3	0.88 (J)	2.6	6	1.4	17.3	4.8	9.9
2/26/2025									

Time Series

Constituent: Calcium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38
6/2/2016	
6/6/2016	
6/7/2016	
7/25/2016	
7/27/2016	
7/28/2016	
8/30/2016	
9/16/2016	
9/19/2016	
11/1/2016	
11/2/2016	
11/3/2016	
11/14/2016	
1/11/2017	
1/13/2017	
1/16/2017	
2/21/2017	
2/24/2017	
3/1/2017	
3/2/2017	
3/6/2017	
4/26/2017	
5/2/2017	
5/8/2017	
6/28/2017	
6/29/2017	
6/30/2017	
7/11/2017	
10/3/2017	
10/4/2017	
10/5/2017	
10/10/2017	
10/11/2017	
10/12/2017	190
11/20/2017	184
1/10/2018	
1/11/2018	
1/12/2018	178
2/19/2018	
2/20/2018	184
4/2/2018	
4/3/2018	174
6/5/2018	
6/6/2018	
6/7/2018	
6/11/2018	
6/28/2018	190
8/7/2018	176
9/19/2018	
9/24/2018	172
9/25/2018	
10/2/2018	

Time Series

Constituent: Calcium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38
3/26/2019	
3/27/2019	155
4/1/2019	
4/2/2019	
4/3/2019	
9/24/2019	
9/25/2019	
9/26/2019	
10/8/2019	
10/9/2019	140 (D)
10/10/2019	
3/17/2020	
3/19/2020	
3/24/2020	
3/25/2020	124
9/22/2020	
9/23/2020	
9/24/2020	
9/25/2020	93.7
3/1/2021	
3/3/2021	
3/4/2021	87
8/19/2021	
8/26/2021	73.6
8/27/2021	
9/1/2021	
9/3/2021	
2/8/2022	
2/9/2022	
2/10/2022	68.9
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	59.4
2/7/2023	
2/8/2023	55.3
8/15/2023	
8/16/2023	50.9
2/20/2024	
2/22/2024	49.7
2/23/2024	
8/20/2024	
8/21/2024	
8/23/2024	43.8
2/25/2025	
2/26/2025	39.2

Time Series

Constituent: Calcium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-41	YGWC-23S	YGWC-24SB	YGWC-36A	YGWC-42	YGWC-43	YGWC-49	YGWC-50	YAMW-1
6/7/2016		9.6							
6/8/2016			1.9						
7/28/2016		7.87							
8/1/2016			1.83						
8/30/2016					133				
8/31/2016						3.4			
9/1/2016							13.9		
9/2/2016				11.2					
9/20/2016		9.28	1.78						
11/8/2016		8.6	1.77						
11/14/2016				7.79					
11/15/2016							13.5		
11/16/2016					125	3.79			
1/16/2017		8.85							
1/17/2017			1.7						
2/24/2017						6.42			
2/27/2017					139		12.5		
2/28/2017				8.37					
3/8/2017			1.77						
3/9/2017		8.4							
5/2/2017		12.9	1.57						
5/9/2017				13.9			14.4		
5/10/2017					130	7.9			
7/7/2017			1.8						
7/10/2017		8.09							
7/11/2017					172	6.71			
7/13/2017				16.6			14.1		
9/22/2017				18.4					
9/29/2017				16.1					
10/5/2017			1.7						
10/6/2017				16.6					
10/11/2017		6.36		18.1			12.4		
10/12/2017	44.5				144	7.05			
11/21/2017	44.4								
1/11/2018	43.9								
2/19/2018	45.3								
4/3/2018	42.7								
4/4/2018					137	8.6	<25		
6/12/2018		4.7	1.8						
6/13/2018				18.7 (J)					
6/27/2018	42.2								
8/7/2018	40.7								
9/20/2018					108	15.9 (J)	12 (J)		
9/24/2018	38.5								
9/26/2018			1.7	19.8 (J)					
9/27/2018		4.1							
10/16/2018									14.5 (J)
3/27/2019					109				
3/28/2019	26					8.9	11.3 (J)		
4/4/2019		3.7	1.9	16.9 (J)					
9/26/2019			1.7	11.7			12.1		9.75 (D)
9/27/2019		3.7							

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-41	YGWC-23S	YGWC-24SB	YGWC-36A	YGWC-42	YGWC-43	YGWC-49	YGWC-50	YAMW-1
10/9/2019	29.25 (D)				97.5 (D)	20.05 (D)			
10/10/2019		3.6		12.2					
3/25/2020	29.6			10.6	107	12.1	13.2		4.5
3/26/2020		5.6	1.7						
9/23/2020			2.4						
9/24/2020		7.9			84.3		12		4.8
9/25/2020	20.5					19.8			
10/7/2020				9.9					
3/3/2021			2.4						6.9
3/4/2021	16.4	10.2		5.6	90.7	32.2	13		
8/25/2021		10.6			79.9				
8/26/2021	12.8								
9/1/2021			2.3				12.1		16.8
9/3/2021				4.1					
9/27/2021						4.1			
2/8/2022	15					9.9	12.7		
2/10/2022		11.8	2.2		74.4				21.5
2/11/2022				4.6					
8/31/2022							11.6		27
9/1/2022	12.9	11.2		6.3	68.5	10.7			
2/8/2023	14.4	10.9			74.6	11			
2/9/2023				9.2			11.8		31.7
2/10/2023			2.4						
8/16/2023	13.5	11.2	2.2	20	69.2	10.7	11.1		28.7
8/17/2023								229	
12/20/2023								272	
2/21/2024		11.1					11.1		
2/22/2024	14.4				73.5	10.5		267	
2/23/2024			2.6	33.6					46.3
6/10/2024								57.5	
8/21/2024		13							
8/22/2024			2.3	41.1	64.4	14.8	10.8		52.9
8/23/2024	13.6							304	
11/26/2024								308	
2/26/2025	14.2			47.4	70.4		10.9	312	50.7
2/27/2025		16.2				17.1			
3/17/2025			2.9						
5/21/2025								276	

Time Series

Constituent: Calcium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-2
6/7/2016	
6/8/2016	
7/28/2016	
8/1/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/20/2016	
11/8/2016	
11/14/2016	
11/15/2016	
11/16/2016	
1/16/2017	
1/17/2017	
2/24/2017	
2/27/2017	
2/28/2017	
3/8/2017	
3/9/2017	
5/2/2017	
5/9/2017	
5/10/2017	
7/7/2017	
7/10/2017	
7/11/2017	
7/13/2017	
9/22/2017	
9/29/2017	
10/5/2017	
10/6/2017	
10/11/2017	
10/12/2017	
11/21/2017	
1/11/2018	
2/19/2018	
4/3/2018	
4/4/2018	
6/12/2018	
6/13/2018	
6/27/2018	
8/7/2018	
9/20/2018	
9/24/2018	
9/26/2018	
9/27/2018	
10/16/2018	
3/27/2019	
3/28/2019	
4/4/2019	
9/26/2019	
9/27/2019	

Time Series

Constituent: Calcium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-2
10/9/2019	
10/10/2019	
3/25/2020	
3/26/2020	
9/23/2020	1.7
9/24/2020	
9/25/2020	
10/7/2020	
3/3/2021	1.5
3/4/2021	
8/25/2021	
8/26/2021	
9/1/2021	1.4
9/3/2021	
9/27/2021	
2/8/2022	
2/10/2022	1.3
2/11/2022	
8/31/2022	
9/1/2022	1.4
2/8/2023	1.2
2/9/2023	
2/10/2023	
8/16/2023	
8/17/2023	1.4
12/20/2023	
2/21/2024	
2/22/2024	1.2
2/23/2024	
6/10/2024	
8/21/2024	1.4
8/22/2024	
8/23/2024	
11/26/2024	
2/26/2025	2.3
2/27/2025	
3/17/2025	
5/21/2025	

Time Series

Constituent: Calcium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-3	YAMW-4	YAMW-5	PZ-35	PZ-37D	PZ-37	PZ-51	PZ-52D	PZ-54D
10/12/2017						122			
11/21/2017						118			
1/11/2018						119			
2/20/2018						124			
4/3/2018						114			
6/29/2018						129			
8/6/2018						114			
9/24/2018						115			
10/16/2018				6.5					
9/26/2019				4.765 (D)					
3/25/2020				7.9					
9/23/2020		10.5							
9/24/2020			61.3	3.6					
9/25/2020						108			
3/3/2021		20.6							
3/4/2021			53.8	4.4		118			
5/13/2021					68.3				
8/25/2021		11				106			
8/26/2021			45						
9/1/2021				7.9					
9/3/2021	42.5				64				
11/4/2021								25.6	
2/10/2022	29.4	11.6	40.8	8.8		106	54.7		
2/11/2022					49			27.3	
4/4/2022						103			
4/7/2022						103			
8/31/2022				11.8					
9/1/2022	34.4	11.1	43.7		67.9	99.9	52.5	22.8	
2/8/2023		12	52.3		55.2	95.9		22.9	
2/9/2023	33			14.5			54.3		
8/16/2023	21.4	11.9	51	21.5	67.5		52		
8/17/2023						101		22.1	
2/21/2024	39.7				65.9	103		24.5	
2/22/2024		14.4	52.7				54.8		
2/23/2024				31.1					
6/12/2024									38.4
8/21/2024					86.6	111		26.7	
8/22/2024	48.6			22.8			57.2		
8/23/2024		14.4	59						
11/7/2024									60.6
2/25/2025				41.4					
2/26/2025	43.7	15.7							
2/27/2025			54.3		68.8	110	61.1	24.8	62.4

Time Series

Constituent: Calcium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	PZ-55
10/12/2017	
11/21/2017	
1/11/2018	
2/20/2018	
4/3/2018	
6/29/2018	
8/6/2018	
9/24/2018	
10/16/2018	
9/26/2019	
3/25/2020	
9/23/2020	
9/24/2020	
9/25/2020	
3/3/2021	
3/4/2021	
5/13/2021	
8/25/2021	
8/26/2021	
9/1/2021	
9/3/2021	
11/4/2021	
2/10/2022	
2/11/2022	
4/4/2022	
4/7/2022	
8/31/2022	
9/1/2022	
2/8/2023	
2/9/2023	
8/16/2023	
8/17/2023	
2/21/2024	
2/22/2024	22.5
2/23/2024	
6/12/2024	
8/21/2024	23.4
8/22/2024	
8/23/2024	
11/7/2024	
2/25/2025	
2/26/2025	
2/27/2025	21.2

Time Series

Constituent: Chloride (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/1/2016		1.3	1.6			1.3			
6/2/2016					1.4		3.7	7.2	4.3
7/25/2016			1.4			1.3			
7/26/2016		1.2			1.6		3.6	6.6	4.4
8/31/2016	4								
9/13/2016		1.1	1.3						
9/14/2016				1.1		1.3	3.4	6.6	3.8
9/15/2016					1.5				
11/1/2016		1.3			1.7	1.4			
11/2/2016							4.5	7.6	
11/4/2016			1.6	1.4					4.8
11/28/2016	4.2								
12/15/2016				2.9					
1/10/2017									
1/11/2017		1.1			1.2	1.1			
1/12/2017								6.8	3.8
1/13/2017							4.2		
1/16/2017			1.4	0.98					
2/22/2017	3.7								
3/1/2017						1.1			
3/2/2017		1	1.3		1.2				
3/3/2017				1.1					
3/6/2017							3.6		
3/7/2017								6.8	4.5
3/8/2017									
4/26/2017					1.2	1.1			
4/27/2017		1	1.3						
4/28/2017				0.91					
5/1/2017							4.3	7.2	
5/2/2017									4.6
5/8/2017	4.2								
5/26/2017				0.93					
6/27/2017		1.1	1.4					7	4.3
6/28/2017				1	1.3	1.2			
6/29/2017							4.2		
6/30/2017									
7/17/2017	3.8								
10/3/2017		1.1	1.7	1.2				6.5	4.2
10/4/2017					1.5	1.2			
10/5/2017							4.7		
10/16/2017	4.2								
2/19/2018	4.3								
6/5/2018		1.1							
6/6/2018			1.4					4.7	
6/7/2018				1	1.2		4.4		4.5
6/8/2018						1.2			
8/6/2018	3.8								
9/26/2018							4.8	4.8	5.1
10/1/2018		1.1	1.4	1.1	1.5	1.2			
2/25/2019	4.1								
3/28/2019		1.4	1.5						
3/29/2019				1.2					

Time Series

Constituent: Chloride (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
4/1/2019					1.2	1.1			
4/3/2019							4.3	4	4.2
6/12/2019	4.7								
9/24/2019		1.1	1.3	0.95 (J)				3.7	4.5
9/25/2019					1.1	1.1	4.5		
10/8/2019	5.1								
10/10/2019								4.3	1.6
3/17/2020	4.8								
3/18/2020			1.4						
3/19/2020		1.1		0.97 (J)	1.2	1.1			
3/24/2020								3.5	4.3
3/25/2020							3.9		
9/22/2020	4.2						4.5	3.6	4.2
9/23/2020		0.99 (J)	1.2	0.88 (J)	1.1	1			
9/25/2020									
3/2/2021	4.1							3.2	4.3
3/3/2021		0.96 (J)	1.2	0.86 (J)	1.1	0.99 (J)	4.1 (J)		
8/19/2021		1.1	1.3		1.1				
8/20/2021	5.2								
8/26/2021							4.4	3.4	4.3
8/27/2021				0.99 (J)		1.1			
2/8/2022	5.7								
2/9/2022		1	1.3	1 (J)	1.1	1.1			
2/10/2022								3.2	4.4
2/11/2022							4.1		
8/30/2022	6.3	1.3		1.2				3.5	4.4
8/31/2022			1.5		1.3	1.3	4.4		
2/7/2023	6.1	1.3	1.5	1.1				3.3	
2/8/2023					1.2	1.1			
2/9/2023							4.5		5
8/15/2023	5.6	1.1	1.4	0.93 (J)	1.1		4.4	3.1	4.1
8/16/2023						1.1			
2/20/2024	6.1	1	1.2	0.96 (J)	1.1	1.1	4.6	3.2	4.8
2/23/2024									
8/20/2024		1	1.3	0.91 (J)	1.1	1	5.2	3.4	4.8
2/25/2025		0.9 (J)	1.1	0.77 (J)	0.94 (J)	0.9 (J)	4.5	2.8	4.4

Time Series

Constituent: Chloride (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (bg)
6/1/2016	
6/2/2016	4.1
7/25/2016	
7/26/2016	4
8/31/2016	
9/13/2016	
9/14/2016	
9/15/2016	4.2
11/1/2016	
11/2/2016	4.9
11/4/2016	
11/28/2016	
12/15/2016	
1/10/2017	4.1
1/11/2017	
1/12/2017	
1/13/2017	
1/16/2017	
2/22/2017	
3/1/2017	
3/2/2017	
3/3/2017	
3/6/2017	
3/7/2017	
3/8/2017	4.2
4/26/2017	4.1
4/27/2017	
4/28/2017	
5/1/2017	
5/2/2017	
5/8/2017	
5/26/2017	
6/27/2017	
6/28/2017	
6/29/2017	
6/30/2017	3.7
7/17/2017	
10/3/2017	
10/4/2017	
10/5/2017	3.8
10/16/2017	
2/19/2018	
6/5/2018	
6/6/2018	
6/7/2018	
6/8/2018	3.4
8/6/2018	
9/26/2018	
10/1/2018	3.8
2/25/2019	
3/28/2019	
3/29/2019	4.2

Time Series

Constituent: Chloride (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (bg)
4/1/2019	
4/3/2019	
6/12/2019	
9/24/2019	
9/25/2019	4.8
10/8/2019	
10/10/2019	
3/17/2020	
3/18/2020	5.2
3/19/2020	
3/24/2020	
3/25/2020	
9/22/2020	
9/23/2020	
9/25/2020	5.3
3/2/2021	4.9
3/3/2021	
8/19/2021	5
8/20/2021	
8/26/2021	
8/27/2021	
2/8/2022	
2/9/2022	
2/10/2022	4.7
2/11/2022	
8/30/2022	
8/31/2022	4.6
2/7/2023	
2/8/2023	4.9
2/9/2023	
8/15/2023	4.1
8/16/2023	
2/20/2024	
2/23/2024	4.8
8/20/2024	4.5
2/25/2025	4.1

Time Series

Constituent: Chloride (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)
6/2/2016						1.9			
6/6/2016		6.8	6.4						
6/7/2016	4.5			1.9	2.8				
7/25/2016						1.7			
7/27/2016	4.5	6.7	6.2	1.9					
7/28/2016					2.6				
8/30/2016									5.2
9/16/2016	4.5		6.1						
9/19/2016		7		1.9	2.4	1.6			
11/1/2016						1.8			
11/2/2016				2.6					
11/3/2016	5.4	7.5	7.4		2.9				
11/14/2016									6.4
1/11/2017	4.7	6.5	6.1						
1/13/2017				2.3	2.5				
1/16/2017						1.7			
2/21/2017						1.7			
2/24/2017									5.5
3/1/2017		6.9	6						
3/2/2017	4.8								
3/6/2017				1.9	2.1				
4/26/2017		7	6.5	2	2.1	1.7			
5/2/2017	4.6								
5/8/2017									5.8
6/28/2017		7	6.4						
6/29/2017	4.5			2.6	2.8				
6/30/2017						1.8			
7/11/2017									5.8
10/3/2017					2.2				
10/4/2017	4.7		6.8	2.6		1.8			
10/5/2017		7							
10/10/2017									5.9
10/11/2017							2.4		
10/12/2017								3.8	
11/20/2017							1.8	4.4	
1/10/2018								4.6	
1/11/2018							1.6		
1/12/2018									
2/19/2018								4.6	
2/20/2018							2		
4/2/2018									4.8
4/3/2018							3.3	5.9	
6/5/2018					1.7				
6/6/2018				2.7					
6/7/2018		6.8							
6/11/2018	4.9		6.8			2			
6/28/2018							2.1	5	
8/7/2018							1.2	4.3	
9/19/2018									4
9/24/2018							1.3	4.9	
9/25/2018	5.6	7.9	7.8	3.6	2.2				
10/2/2018						1.8			

Time Series

Constituent: Chloride (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)
3/26/2019								4.4	
3/27/2019							1.4		4.3
4/1/2019						1.7			
4/2/2019	4.8				2.5				
4/3/2019		6.9	6.3	3.1					
9/24/2019					3.1				
9/25/2019	5.7			2.8		1.6			
9/26/2019		7	7.1						
10/8/2019									4.4
10/9/2019							2.05 (D)	5.05 (D)	
10/10/2019	5.8			3.7	3.3				
3/17/2020									4.1
3/19/2020						1.8			
3/24/2020	5	7	6.8	2.7	2.8			4.7	
3/25/2020							1.9		
9/22/2020									4.2
9/23/2020	6.6	7.2	7.2						
9/24/2020				2.7	2	1.5	2.7	5	
9/25/2020									
3/1/2021						1.6			3.7
3/3/2021	7.1	7	7.2	2.7					
3/4/2021					1.8		4.9	4.9	
8/19/2021						1.6			3.5
8/26/2021			7.3				7.2		
8/27/2021	8.5	7.4		2.8					
9/1/2021					1.8				
9/3/2021								5.5	
2/8/2022							7.4	6.2	3.2
2/9/2022	10.9	7.5	7	2.8	1.7				
2/10/2022									
2/11/2022						2.1			
8/30/2022	12	7.9	7		2.4				
8/31/2022				2.9		1.8	6.7	6.3	3.5
9/1/2022									
2/7/2023	11.4	7.4	6.4	2.9	2.4		5.6		
2/8/2023						1.6		6.9	3.5
8/15/2023	11.6	7.3	6.7	2.8	2.3		4.5	5.6	3.5
8/16/2023						1.5			
2/20/2024	12.2	7.6		2.9	2.3	1.4	4.6	5.7	3.2
2/22/2024									
2/23/2024			6.6						
8/20/2024	12.7	7.8		3	2.3	1.4			3.6
8/21/2024			7.4				4	5.4	
8/23/2024									
2/25/2025	11.4	7	6.5	2.6	2	1.3	3.5	4.5	3
2/26/2025									

Time Series

Constituent: Chloride (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38
6/2/2016	
6/6/2016	
6/7/2016	
7/25/2016	
7/27/2016	
7/28/2016	
8/30/2016	
9/16/2016	
9/19/2016	
11/1/2016	
11/2/2016	
11/3/2016	
11/14/2016	
1/11/2017	
1/13/2017	
1/16/2017	
2/21/2017	
2/24/2017	
3/1/2017	
3/2/2017	
3/6/2017	
4/26/2017	
5/2/2017	
5/8/2017	
6/28/2017	
6/29/2017	
6/30/2017	
7/11/2017	
10/3/2017	
10/4/2017	
10/5/2017	
10/10/2017	
10/11/2017	
10/12/2017	6
11/20/2017	6.9
1/10/2018	
1/11/2018	
1/12/2018	6.6
2/19/2018	
2/20/2018	6.2
4/2/2018	
4/3/2018	6.9
6/5/2018	
6/6/2018	
6/7/2018	
6/11/2018	
6/28/2018	6.4
8/7/2018	5.5
9/19/2018	
9/24/2018	5.9
9/25/2018	
10/2/2018	

Time Series

Constituent: Chloride (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38
3/26/2019	
3/27/2019	6.2
4/1/2019	
4/2/2019	
4/3/2019	
9/24/2019	
9/25/2019	
9/26/2019	
10/8/2019	
10/9/2019	4.9 (D)
10/10/2019	
3/17/2020	
3/19/2020	
3/24/2020	
3/25/2020	4
9/22/2020	
9/23/2020	
9/24/2020	
9/25/2020	4
3/1/2021	
3/3/2021	
3/4/2021	3.9
8/19/2021	
8/26/2021	4.1
8/27/2021	
9/1/2021	
9/3/2021	
2/8/2022	
2/9/2022	
2/10/2022	4
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	4.2
2/7/2023	
2/8/2023	3.9
8/15/2023	
8/16/2023	3.7
2/20/2024	
2/22/2024	3.7
2/23/2024	
8/20/2024	
8/21/2024	
8/23/2024	4
2/25/2025	
2/26/2025	3.9

Time Series

Constituent: Chloride (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-41	YGWC-23S	YGWC-24SB	YGWC-36A	YGWC-42	YGWC-43	YGWC-49	YGWC-50	YAMW-1
6/7/2016		2.9							
6/8/2016			5.9						
7/28/2016		3.5							
8/1/2016			5.3						
8/30/2016					4.4				
8/31/2016						1.5			
9/1/2016							5.3		
9/2/2016				6.3					
9/20/2016		2.4	5.5						
11/8/2016		2.8	6.4						
11/14/2016				6.7					
11/15/2016							5.8		
11/16/2016					4.7	1.7			
1/16/2017		1.8							
1/17/2017			5.5						
2/24/2017						1.5			
2/27/2017					4.7		4.6		
2/28/2017				5.4					
3/8/2017			5.4						
3/9/2017		1.7							
5/2/2017		1.8	5.7						
5/9/2017				5.7			5.3		
5/10/2017					4.4	1.2			
7/7/2017			5.7						
7/10/2017		1.9							
7/11/2017					4.7	1.5			
7/13/2017				5.4			4.7		
9/22/2017				6.9					
9/29/2017				5.5					
10/5/2017			6						
10/6/2017				5.5					
10/11/2017		2.4		6.4			5.8		
10/12/2017	3.1				4.3	1.6			
11/21/2017	4.2								
1/11/2018	3.8								
2/19/2018	3.5								
4/3/2018	4.4								
4/4/2018					3.7	1.8	4.3		
6/12/2018		1.8	6.2						
6/13/2018				5.6					
6/27/2018	3.6								
8/7/2018	3.3								
9/20/2018					3.8	1.9	4.8		
9/24/2018	3.3								
9/26/2018			6.9	6					
9/27/2018		2							
10/16/2018									12.1
3/27/2019					3.9				
3/28/2019	3.2					1.8	4.4		
4/4/2019		1.7	5.9	5.4					
9/26/2019			6.5	7.1			5		6.4
9/27/2019		1.7							

Time Series

Constituent: Chloride (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-41	YGWC-23S	YGWC-24SB	YGWC-36A	YGWC-42	YGWC-43	YGWC-49	YGWC-50	YAMW-1
10/9/2019	3.3				4.2 (D)	2.35 (D)			
10/10/2019			6.8				5.3		
3/25/2020	2.7			6.3	3.2	1.8	4.1		7.7
3/26/2020		1.6	5.4						
9/23/2020			9.3						
9/24/2020		2			3.3		4.6		6.6
9/25/2020	3					2.3			
10/7/2020				8.7					
3/3/2021			8.6						6.1
3/4/2021	3.4	1.8		6.6	2.7	2.1	4.1		
8/25/2021		2.5			3.4				
8/26/2021	3.6								
9/1/2021			8.9				4.4		5.7
9/3/2021				7					
9/27/2021						1.1			
2/8/2022	3.5					2.1	4.2		
2/10/2022		1.9	8.7		3.3				5.3
2/11/2022				6.6					
8/31/2022							4.3		5.3
9/1/2022	3.8	2		6.2	3.3	2.1			
2/8/2023	4	2			3.4	2.4			
2/9/2023				5.9			4.4		5.4
2/10/2023			9.1						
8/16/2023	3.7	2.7	8.1	4.9	2.8	2.3	3.8		4.9
8/17/2023								9.4	
12/20/2023								9.8	
2/21/2024		2.4					4		
2/22/2024	3.9				3.3	2.3		9.8	
2/23/2024			8.3	4.8					5.2
6/10/2024								9.9	
8/21/2024		2.6							
8/22/2024			8.6	4.8	3.1	2.7	4.1		5.7
8/23/2024	3.9							10.4	
11/26/2024								10.5	
2/26/2025	3.6			4.5	2.9		3.7	9.7	5.2
2/27/2025		2.8				2.6			
3/17/2025			8.6						
5/21/2025								10.6	

Time Series

Constituent: Chloride (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-2
6/7/2016	
6/8/2016	
7/28/2016	
8/1/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/20/2016	
11/8/2016	
11/14/2016	
11/15/2016	
11/16/2016	
1/16/2017	
1/17/2017	
2/24/2017	
2/27/2017	
2/28/2017	
3/8/2017	
3/9/2017	
5/2/2017	
5/9/2017	
5/10/2017	
7/7/2017	
7/10/2017	
7/11/2017	
7/13/2017	
9/22/2017	
9/29/2017	
10/5/2017	
10/6/2017	
10/11/2017	
10/12/2017	
11/21/2017	
1/11/2018	
2/19/2018	
4/3/2018	
4/4/2018	
6/12/2018	
6/13/2018	
6/27/2018	
8/7/2018	
9/20/2018	
9/24/2018	
9/26/2018	
9/27/2018	
10/16/2018	
3/27/2019	
3/28/2019	
4/4/2019	
9/26/2019	
9/27/2019	

Time Series

Constituent: Chloride (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-2
10/9/2019	
10/10/2019	
3/25/2020	
3/26/2020	
9/23/2020	2.7
9/24/2020	
9/25/2020	
10/7/2020	
3/3/2021	2.5
3/4/2021	
8/25/2021	
8/26/2021	
9/1/2021	2.6
9/3/2021	
9/27/2021	
2/8/2022	
2/10/2022	2.5
2/11/2022	
8/31/2022	
9/1/2022	2.4
2/8/2023	2.5
2/9/2023	
2/10/2023	
8/16/2023	
8/17/2023	2.7
12/20/2023	
2/21/2024	
2/22/2024	2.3
2/23/2024	
6/10/2024	
8/21/2024	2.4
8/22/2024	
8/23/2024	
11/26/2024	
2/26/2025	2.1
2/27/2025	
3/17/2025	
5/21/2025	

Time Series

Constituent: Chloride (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-3	YAMW-4	YAMW-5	PZ-35	PZ-37D	PZ-37	PZ-51	PZ-52D	PZ-54D
10/12/2017						5.4			
11/21/2017						6.5			
1/11/2018						5			
2/20/2018						5.2			
4/3/2018						4.8			
6/29/2018						5.7			
8/6/2018						4.8			
9/24/2018						4.9			
10/16/2018				8.5					
9/26/2019				7.5					
3/25/2020				6.8					
9/23/2020		1.8							
9/24/2020			3.7	7.5					
9/25/2020						4.3			
3/3/2021		22.9							
3/4/2021			3.7	6.7		3.9			
5/13/2021					4				
8/25/2021		1.5				7			
8/26/2021			3.9						
9/1/2021				6.3					
9/3/2021					7.1				
11/4/2021								9.5	
2/10/2022	3.2	1.4	3.9	5.6		4.2	4.2		
2/11/2022					12.5			6.7	
4/4/2022						3.5			
4/7/2022						3.6			
8/31/2022				5.5					
9/1/2022	10.2	1.4	3.6		45.6	4.2	4	3.7	
2/8/2023		1.5	3.8		33.5	3.8		2	
2/9/2023	9.6			5.4			4.7		
8/16/2023	2.2	1.4	3.6	4.9	14.8		4.1		
8/17/2023						4.1		1.8	
2/21/2024	3.5				18.9	4.5		1.6	
2/22/2024		1.5	3.7				4.3		
2/23/2024				4.8					
6/12/2024									2.8
8/21/2024					24	5.3		1.6	
8/22/2024	4.4			5			4.5		
8/23/2024		1.8	3.8						
11/7/2024									5.5
2/25/2025				4.2					
2/26/2025	3.8	1.5							
2/27/2025			3.3		10.3	5	4.1	1.4	5

Time Series

Constituent: Chloride (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	PZ-55
10/12/2017	
11/21/2017	
1/11/2018	
2/20/2018	
4/3/2018	
6/29/2018	
8/6/2018	
9/24/2018	
10/16/2018	
9/26/2019	
3/25/2020	
9/23/2020	
9/24/2020	
9/25/2020	
3/3/2021	
3/4/2021	
5/13/2021	
8/25/2021	
8/26/2021	
9/1/2021	
9/3/2021	
11/4/2021	
2/10/2022	
2/11/2022	
4/4/2022	
4/7/2022	
8/31/2022	
9/1/2022	
2/8/2023	
2/9/2023	
8/16/2023	
8/17/2023	
2/21/2024	
2/22/2024	4.7
2/23/2024	
6/12/2024	
8/21/2024	4.6
8/22/2024	
8/23/2024	
11/7/2024	
2/25/2025	
2/26/2025	
2/27/2025	3.9

Time Series

Constituent: Chromium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
5/1/2007	0.0029								
9/12/2007	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			<0.005			
6/2/2016					0.0013 (J)		<0.005	<0.005	<0.005
7/21/2016	<0.005								
7/25/2016			0.0007 (J)			0.0007 (J)			
7/26/2016		0.0009 (J)			0.0006 (J)		<0.005	0.0006 (J)	0.0006 (J)
8/31/2016	<0.005								
9/13/2016		<0.005	<0.005						
9/14/2016				<0.005		<0.005	<0.005	<0.005	<0.005
9/15/2016					<0.005				
11/1/2016		<0.005			<0.005	<0.005			
11/2/2016							<0.005	<0.005	
11/4/2016			<0.005	<0.005					<0.005
11/28/2016	<0.005								
12/15/2016				<0.005					
1/10/2017									
1/11/2017		<0.005			<0.005	<0.005			
1/12/2017								<0.005	<0.005
1/13/2017							<0.005		
1/16/2017			<0.005	<0.005					
2/22/2017	<0.005								
3/1/2017						0.0004 (J)			
3/2/2017		0.0009 (J)	0.0004 (J)		0.0006 (J)				
3/3/2017				0.0005 (J)					
3/6/2017							<0.005		
3/7/2017								0.0012 (J)	0.0006 (J)
3/8/2017									
4/26/2017					<0.005	<0.005			
4/27/2017		<0.005	<0.005						
4/28/2017				0.0004 (J)					
5/1/2017							<0.005	0.0004 (J)	
5/2/2017									<0.005
5/8/2017	<0.005								
5/26/2017				<0.005					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/27/2017		<0.005	<0.005					<0.005	<0.005
6/28/2017				<0.005	<0.005	<0.005			
6/29/2017							<0.005		
6/30/2017									
7/17/2017	<0.005								
10/16/2017	<0.005								
2/19/2018	<0.005								
3/27/2018			<0.005						
3/28/2018				<0.005	<0.005	<0.005			
3/29/2018		<0.005					<0.005	<0.005	<0.005
8/6/2018	<0.005								
2/25/2019	<0.005								
2/26/2019									
2/27/2019		<0.005	<0.005	<0.005	<0.005	<0.005			
3/4/2019							<0.005	<0.005	<0.005
3/28/2019		<0.005	0.0021 (J)						
3/29/2019				<0.005					
4/1/2019					<0.005	<0.005			
6/12/2019	<0.005								
8/19/2019	<0.005								
9/24/2019		0.00072 (J)	0.0028 (J)	<0.005					
9/25/2019					0.0014 (J)	0.0019 (J)			
10/8/2019	<0.005								
2/10/2020		0.00042 (J)	<0.005						
2/11/2020				<0.005		<0.005			
2/12/2020					<0.005		<0.005	<0.005	0.00043 (J)
3/17/2020	<0.005								
3/18/2020			0.00044 (J)						
3/19/2020		0.00084 (J)		0.00048 (J)	<0.005	<0.005			
3/24/2020								<0.005	0.0014 (J)
3/25/2020							0.00058 (J)		
8/26/2020	<0.005								
9/22/2020	<0.005						<0.005	0.0011 (J)	<0.005
9/23/2020		0.00062 (J)	0.00058 (J)	<0.005	<0.005	<0.005			
9/25/2020									
2/8/2021								<0.005	<0.005
2/9/2021							<0.005		
2/10/2021				<0.005	<0.005	<0.005			
2/12/2021		<0.005	<0.005						
3/2/2021	<0.005							<0.005	<0.005
3/3/2021		<0.005	<0.005	<0.005	<0.005	<0.005	0.0013		
8/19/2021		<0.005	<0.005		<0.005				
8/20/2021	<0.005								
8/26/2021							<0.005	<0.005	<0.005
8/27/2021				<0.005		<0.005			
2/8/2022	<0.005								
2/9/2022		<0.005	<0.005	<0.005	<0.005	<0.005			
2/10/2022								<0.005	<0.005
2/11/2022							<0.005		
8/30/2022	<0.005	0.0011 (J)		<0.005				<0.005	<0.005
8/31/2022			<0.005		<0.005	<0.005	<0.005		
2/7/2023	<0.005	<0.005	0.0013 (J)	<0.005				<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
2/8/2023					<0.005	<0.005			
2/9/2023							<0.005		0.0012 (J)
8/15/2023	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005
8/16/2023						<0.005			
2/20/2024	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/23/2024									
8/20/2024		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/25/2025		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (bg)
5/1/2007	
9/12/2007	
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	
6/2/2016	<0.005
7/21/2016	
7/25/2016	
7/26/2016	<0.005
8/31/2016	
9/13/2016	
9/14/2016	
9/15/2016	<0.005
11/1/2016	
11/2/2016	<0.005
11/4/2016	
11/28/2016	
12/15/2016	
1/10/2017	<0.005
1/11/2017	
1/12/2017	
1/13/2017	
1/16/2017	
2/22/2017	
3/1/2017	
3/2/2017	
3/3/2017	
3/6/2017	
3/7/2017	
3/8/2017	0.0005 (J)
4/26/2017	<0.005
4/27/2017	
4/28/2017	
5/1/2017	
5/2/2017	
5/8/2017	
5/26/2017	

Time Series

Constituent: Chromium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (bg)
6/27/2017	
6/28/2017	
6/29/2017	
6/30/2017	<0.005
7/17/2017	
10/16/2017	
2/19/2018	
3/27/2018	<0.005
3/28/2018	
3/29/2018	
8/6/2018	
2/25/2019	
2/26/2019	<0.005
2/27/2019	
3/4/2019	
3/28/2019	
3/29/2019	<0.005
4/1/2019	
6/12/2019	
8/19/2019	
9/24/2019	
9/25/2019	<0.005
10/8/2019	
2/10/2020	
2/11/2020	
2/12/2020	<0.005
3/17/2020	
3/18/2020	<0.005
3/19/2020	
3/24/2020	
3/25/2020	
8/26/2020	
9/22/2020	
9/23/2020	
9/25/2020	<0.005
2/8/2021	
2/9/2021	
2/10/2021	<0.005
2/12/2021	
3/2/2021	<0.005
3/3/2021	
8/19/2021	<0.005
8/20/2021	
8/26/2021	
8/27/2021	
2/8/2022	
2/9/2022	
2/10/2022	<0.005
2/11/2022	
8/30/2022	
8/31/2022	<0.005
2/7/2023	

Time Series

Constituent: Chromium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (bg)
2/8/2023	<0.005
2/9/2023	
8/15/2023	<0.005
8/16/2023	
2/20/2024	
2/23/2024	<0.005
8/20/2024	<0.005
2/25/2025	<0.005

Time Series

Constituent: Chromium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)
6/2/2016						<0.005			
6/6/2016		0.0012 (J)	<0.005						
6/7/2016	<0.005			<0.005	<0.005				
7/25/2016						<0.005			
7/27/2016	0.0008 (J)	0.0007 (J)	0.0006 (J)	0.0005 (J)					
7/28/2016					<0.005				
8/30/2016									<0.005
9/16/2016	<0.005		<0.005						
9/19/2016		<0.005		<0.005	<0.005	<0.005			
11/1/2016						<0.005			
11/2/2016				<0.005					
11/3/2016	<0.005	<0.005	<0.005		<0.005				
11/14/2016									0.0093 (J)
1/11/2017	<0.005	<0.005	<0.005						
1/13/2017				<0.005	<0.005				
1/16/2017						<0.005			
2/21/2017						<0.005			
2/24/2017									<0.005
3/1/2017		0.0012 (J)	<0.005						
3/2/2017	0.001 (J)								
3/6/2017				0.0005 (J)	0.0004 (J)				
4/26/2017		0.0005 (J)	0.0003 (J)	0.0007 (J)	<0.005	0.0016 (J)			
5/2/2017	0.0007 (J)								
5/8/2017									<0.005
6/28/2017		0.0006 (J)	<0.005						
6/29/2017	0.0006 (J)			0.0005 (J)	<0.005				
6/30/2017						<0.005			
7/11/2017									<0.005
10/10/2017									<0.005
10/11/2017							<0.005		
10/12/2017								<0.005	
11/20/2017							<0.005	<0.005	
1/10/2018								<0.005	
1/11/2018							<0.005		
1/12/2018									
2/19/2018								<0.005	
2/20/2018							<0.005		
3/27/2018						<0.005			
3/28/2018	<0.005	<0.005	<0.005						
3/29/2018				<0.005	<0.005				
4/2/2018									<0.005
4/3/2018							<0.005	<0.005	
6/28/2018							<0.005	<0.005	
8/7/2018							<0.005	<0.005	
9/19/2018									<0.005
9/24/2018							<0.005	<0.005	
2/26/2019						<0.005			
3/5/2019	<0.005		<0.005	<0.005	<0.005				
3/6/2019		<0.005							
4/1/2019						<0.005			
8/20/2019									<0.005
8/21/2019							<0.005	0.00053 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)
8/22/2019									
9/25/2019						<0.005			
10/9/2019							<0.005	0.0012 (J)	
2/11/2020	0.00087 (J)	0.001 (J)	0.00088 (J)						
2/12/2020				0.00045 (J)	<0.005	<0.005	<0.005	0.00065 (J)	
2/14/2020									
3/19/2020						<0.005			
3/24/2020	0.00087 (J)	0.00095 (J)	0.0011 (J)	0.00077 (J)	<0.005			0.00055 (J)	
3/25/2020							<0.005		
8/27/2020									<0.005
9/22/2020									<0.005
9/23/2020	0.00098 (J)	0.00092 (J)	0.0012 (J)						
9/24/2020				0.00076 (J)	<0.005	<0.005	<0.005	<0.005	
9/25/2020									
2/9/2021	0.00098 (J)	0.00083 (J)	0.0013 (J)	0.00056 (J)	<0.005				
2/10/2021							<0.005	<0.005	
2/11/2021						<0.005			
3/1/2021						<0.005			<0.005
3/3/2021	0.00082 (J)	0.00087 (J)	0.001 (J)	<0.005					
3/4/2021					<0.005		<0.005	<0.005	
8/19/2021						<0.005			<0.005
8/26/2021			<0.005				<0.005		
8/27/2021	<0.005	<0.005		<0.005					
9/1/2021					<0.005				
9/3/2021								<0.005	
2/8/2022							<0.005	<0.005	<0.005
2/9/2022	<0.005	<0.005	0.0014 (J)	<0.005	<0.005				
2/10/2022									
2/11/2022						<0.005			
8/30/2022	<0.005	<0.005	0.0015 (J)		<0.005				
8/31/2022				<0.005		<0.005	<0.005	<0.005	<0.005
9/1/2022									
2/7/2023	<0.005	<0.005	0.0016 (J)	<0.005	<0.005		<0.005		
2/8/2023						0.0021 (J)		<0.005	<0.005
8/15/2023	<0.005	<0.005	0.0013 (J)	<0.005	<0.005		<0.005	<0.005	<0.005
8/16/2023						<0.005			
2/20/2024	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/22/2024									
2/23/2024			<0.005						
8/20/2024	<0.005	<0.005		<0.005	<0.005	<0.005			<0.005
8/21/2024			<0.005				<0.005	<0.005	
8/23/2024									
2/25/2025	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/26/2025									

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38
6/2/2016	
6/6/2016	
6/7/2016	
7/25/2016	
7/27/2016	
7/28/2016	
8/30/2016	
9/16/2016	
9/19/2016	
11/1/2016	
11/2/2016	
11/3/2016	
11/14/2016	
1/11/2017	
1/13/2017	
1/16/2017	
2/21/2017	
2/24/2017	
3/1/2017	
3/2/2017	
3/6/2017	
4/26/2017	
5/2/2017	
5/8/2017	
6/28/2017	
6/29/2017	
6/30/2017	
7/11/2017	
10/10/2017	
10/11/2017	
10/12/2017	0.0005 (J)
11/20/2017	<0.005
1/10/2018	
1/11/2018	
1/12/2018	<0.005
2/19/2018	
2/20/2018	<0.005
3/27/2018	
3/28/2018	
3/29/2018	
4/2/2018	
4/3/2018	<0.005
6/28/2018	<0.005
8/7/2018	<0.005
9/19/2018	
9/24/2018	<0.005
2/26/2019	
3/5/2019	
3/6/2019	
4/1/2019	
8/20/2019	
8/21/2019	

Time Series

Constituent: Chromium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38
8/22/2019	<0.005
9/25/2019	
10/9/2019	<0.005
2/11/2020	
2/12/2020	
2/14/2020	0.0023 (J)
3/19/2020	
3/24/2020	
3/25/2020	0.00065 (J)
8/27/2020	
9/22/2020	
9/23/2020	
9/24/2020	
9/25/2020	<0.005
2/9/2021	<0.005
2/10/2021	
2/11/2021	
3/1/2021	
3/3/2021	
3/4/2021	<0.005
8/19/2021	
8/26/2021	<0.005
8/27/2021	
9/1/2021	
9/3/2021	
2/8/2022	
2/9/2022	
2/10/2022	<0.005
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	<0.005
2/7/2023	
2/8/2023	<0.005
8/15/2023	
8/16/2023	<0.005
2/20/2024	
2/22/2024	<0.005
2/23/2024	
8/20/2024	
8/21/2024	
8/23/2024	<0.005
2/25/2025	
2/26/2025	<0.005

Time Series

Constituent: Chromium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-41	YGWC-23S	YGWC-24SB	YGWC-36A	YGWC-42	YGWC-43	YGWC-49	YGWC-50	YAMW-1
6/7/2016		<0.005							
6/8/2016			0.0022 (J)						
7/28/2016		0.0008 (J)							
8/1/2016			<0.005						
8/30/2016					<0.005				
8/31/2016						<0.005			
9/1/2016							0.0013 (J)		
9/2/2016				<0.005					
9/20/2016		<0.005	<0.005						
11/8/2016		<0.005	<0.005						
11/14/2016				0.0035 (J)					
11/15/2016							0.0014 (J)		
11/16/2016					<0.005	<0.005			
1/16/2017		<0.005							
1/17/2017			<0.005						
2/24/2017						<0.005			
2/27/2017					<0.005		0.0016 (J)		
2/28/2017				<0.005					
3/8/2017			0.001 (J)						
3/9/2017		0.0008 (J)							
5/2/2017		0.0007 (J)	0.0011 (J)						
5/9/2017				<0.005			0.0017 (J)		
5/10/2017					0.0006 (J)	0.0005 (J)			
7/7/2017			<0.005						
7/10/2017		0.0007 (J)							
7/11/2017					<0.005	<0.005			
7/13/2017				<0.005			0.0019 (J)		
9/22/2017				<0.005					
9/29/2017				<0.005					
10/6/2017				<0.005					
10/11/2017							0.0014 (J)		
10/12/2017	<0.005				<0.005	<0.005			
11/21/2017	<0.005								
1/11/2018	<0.005								
2/19/2018	<0.005								
3/30/2018		<0.005	<0.005	<0.005					
4/3/2018	<0.005								
4/4/2018					<0.005	<0.005	<0.005		
6/27/2018	<0.005								
8/7/2018	<0.005								
9/20/2018					<0.005	<0.005	0.0017 (J)		
9/24/2018	<0.005								
3/5/2019			<0.005						
3/6/2019		<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)			
2/13/2020			<0.005						
2/14/2020	<0.005			<0.005	<0.005				
2/17/2020		0.00087 (J)				<0.005	0.002 (J)		
3/25/2020	0.00039 (J)			0.00074 (J)	0.0013 (J)	<0.005	0.0019 (J)		0.00058 (J)
3/26/2020		0.0019 (J)	0.00094 (J)						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-41	YGWC-23S	YGWC-24SB	YGWC-36A	YGWC-42	YGWC-43	YGWC-49	YGWC-50	YAMW-1
9/23/2020			<0.005						
9/24/2020		0.0011 (J)			<0.005		0.0019 (J)		0.00074 (J)
9/25/2020	<0.005					0.00071 (J)			
10/7/2020				0.0013 (J)					
2/9/2021		0.00086 (J)	0.0011 (J)			<0.005	0.002 (J)		0.001 (J)
2/10/2021	<0.005			0.00094 (J)	<0.005				
3/3/2021			<0.005						0.00076 (J)
3/4/2021	<0.005	0.00078 (J)		<0.005	<0.005	<0.005	0.0017 (J)		
8/25/2021		<0.005			<0.005				
8/26/2021	<0.005								
9/1/2021			<0.005				0.002 (J)		<0.005
9/3/2021				<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				0.0013 (J)
2/11/2022				<0.005					
8/31/2022							0.002 (J)		<0.005
9/1/2022	<0.005	<0.005		<0.005	<0.005	<0.005			
2/8/2023	<0.005	0.0014 (J)			<0.005	<0.005			
2/9/2023				<0.005			0.002 (J)		<0.005
2/10/2023			<0.005						
8/16/2023	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0017 (J)		<0.005
8/17/2023								<0.005	
12/20/2023								<0.005	
2/21/2024		<0.005					0.0021 (J)		
2/22/2024	<0.005				<0.005	<0.005		<0.005	
2/23/2024			<0.005	<0.005					<0.005
6/10/2024								<0.005	
8/21/2024		<0.005							
8/22/2024			<0.005	<0.005	<0.005	<0.005	0.002 (J)		<0.005
8/23/2024	<0.005							<0.005	
11/26/2024								0.00041 (J)	
2/26/2025	<0.005			<0.005	<0.005		0.0021 (J)	<0.005	<0.005
2/27/2025		<0.005				<0.005			
3/17/2025			<0.005						
5/21/2025								<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-2
6/7/2016	
6/8/2016	
7/28/2016	
8/1/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/20/2016	
11/8/2016	
11/14/2016	
11/15/2016	
11/16/2016	
1/16/2017	
1/17/2017	
2/24/2017	
2/27/2017	
2/28/2017	
3/8/2017	
3/9/2017	
5/2/2017	
5/9/2017	
5/10/2017	
7/7/2017	
7/10/2017	
7/11/2017	
7/13/2017	
9/22/2017	
9/29/2017	
10/6/2017	
10/11/2017	
10/12/2017	
11/21/2017	
1/11/2018	
2/19/2018	
3/30/2018	
4/3/2018	
4/4/2018	
6/27/2018	
8/7/2018	
9/20/2018	
9/24/2018	
3/5/2019	
3/6/2019	
8/21/2019	
8/22/2019	
10/9/2019	
2/13/2020	
2/14/2020	
2/17/2020	
3/25/2020	
3/26/2020	

Time Series

Constituent: Chromium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-2
9/23/2020	0.00071 (J)
9/24/2020	
9/25/2020	
10/7/2020	
2/9/2021	0.0011 (J)
2/10/2021	
3/3/2021	0.0012 (J)
3/4/2021	
8/25/2021	
8/26/2021	
9/1/2021	0.003 (J)
9/3/2021	
9/27/2021	
2/8/2022	
2/10/2022	<0.005
2/11/2022	
8/31/2022	
9/1/2022	<0.005
2/8/2023	<0.005
2/9/2023	
2/10/2023	
8/16/2023	
8/17/2023	<0.005
12/20/2023	
2/21/2024	
2/22/2024	<0.005
2/23/2024	
6/10/2024	
8/21/2024	<0.005
8/22/2024	
8/23/2024	
11/26/2024	
2/26/2025	<0.005
2/27/2025	
3/17/2025	
5/21/2025	

Time Series

Constituent: Chromium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-3	YAMW-4	YAMW-5	PZ-35	PZ-37D	PZ-37	PZ-51	PZ-52D	PZ-54D
10/12/2017						0.0019 (J)			
11/21/2017						0.0017 (J)			
1/11/2018						0.001 (J)			
2/20/2018						<0.005			
4/3/2018						<0.005			
6/29/2018						<0.005			
8/6/2018						<0.005			
9/24/2018						<0.005			
3/25/2020				0.0012 (J)					
9/23/2020		<0.005							
9/24/2020			<0.005	0.00061 (J)					
9/25/2020						<0.005			
2/9/2021		0.00057 (J)	<0.005			<0.005			
2/10/2021				0.0006 (J)					
3/3/2021		<0.005							
3/4/2021			<0.005	0.0007 (J)		<0.005			
5/13/2021					<0.005				
8/25/2021		<0.005				<0.005			
8/26/2021			<0.005						
9/1/2021				<0.005					
9/3/2021					<0.005				
11/4/2021								<0.005	
2/10/2022	0.0011 (J)	<0.005	0.0016 (J)	<0.005		<0.005	<0.005		
2/11/2022					<0.005			0.0011 (J)	
4/4/2022						<0.005			
4/7/2022						<0.005			
8/31/2022				<0.005					
9/1/2022	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	
2/8/2023		<0.005	<0.005		<0.005	<0.005		<0.005	
2/9/2023	<0.005			0.0016 (J)			<0.005		
8/16/2023	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005		
8/17/2023						<0.005		<0.005	
2/21/2024	<0.005				<0.005	<0.005		<0.005	
2/22/2024		<0.005	<0.005				<0.005		
2/23/2024				<0.005					
6/12/2024									0.011
8/21/2024					<0.005	<0.005		<0.005	
8/22/2024	<0.005			<0.005			<0.005		
8/23/2024		<0.005	<0.005						
11/7/2024									<0.005
2/25/2025				0.0015 (J)					
2/26/2025	<0.005	<0.005							
2/27/2025			<0.005		<0.005	<0.005	<0.005	0.0013 (J)	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	PZ-55
10/12/2017	
11/21/2017	
1/11/2018	
2/20/2018	
4/3/2018	
6/29/2018	
8/6/2018	
9/24/2018	
3/25/2020	
9/23/2020	
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	
3/3/2021	
3/4/2021	
5/13/2021	
8/25/2021	
8/26/2021	
9/1/2021	
9/3/2021	
11/4/2021	
2/10/2022	
2/11/2022	
4/4/2022	
4/7/2022	
8/31/2022	
9/1/2022	
2/8/2023	
2/9/2023	
8/16/2023	
8/17/2023	
2/21/2024	
2/22/2024	<0.005
2/23/2024	
6/12/2024	
8/21/2024	<0.005
8/22/2024	
8/23/2024	
11/7/2024	
2/25/2025	
2/26/2025	
2/27/2025	<0.005

Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
5/1/2007	0.0067								
9/12/2007	<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)			<0.005			
6/2/2016					<0.005		0.00082 (J)	<0.005	<0.005
7/21/2016	0.0011 (J)								
7/25/2016			0.0008 (J)			<0.005			
7/26/2016		<0.005			<0.005		0.0012 (J)	<0.005	<0.005
8/31/2016	0.0053 (J)								
9/13/2016		<0.005	0.0009 (J)						
9/14/2016				<0.005		<0.005	0.0006 (J)	<0.005	<0.005
9/15/2016					<0.005				
11/1/2016		<0.005			<0.005	<0.005			
11/2/2016							<0.005	<0.005	
11/4/2016			0.0025 (J)	<0.005					<0.005
11/28/2016	0.0036 (J)								
12/15/2016				<0.005					
1/10/2017									
1/11/2017		<0.005			<0.005	<0.005			
1/12/2017								<0.005	<0.005
1/13/2017							0.0029 (J)		
1/16/2017			0.0027 (J)	<0.005					
2/22/2017	0.0049 (J)								
3/1/2017						<0.005			
3/2/2017		<0.005	0.0022 (J)		<0.005				
3/3/2017				<0.005					
3/6/2017							0.0006 (J)		
3/7/2017								<0.005	<0.005
3/8/2017									
4/26/2017					<0.005	<0.005			
4/27/2017		<0.005	0.0018 (J)						
4/28/2017				<0.005					
5/1/2017							<0.005	<0.005	
5/2/2017									<0.005
5/8/2017	0.0059 (J)								
5/26/2017				<0.005					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/27/2017		<0.005	0.0023 (J)					<0.005	<0.005
6/28/2017				<0.005	<0.005	<0.005			
6/29/2017							0.0005 (J)		
6/30/2017									
7/17/2017	0.0046 (J)								
10/16/2017	0.0034 (J)								
2/19/2018	<0.005								
3/27/2018			<0.005						
3/28/2018				<0.005	<0.005	<0.005			
3/29/2018		<0.005					<0.005	<0.005	<0.005
6/5/2018		<0.005							
6/6/2018			<0.005					<0.005	
6/7/2018				<0.005	<0.005		0.00058 (J)		<0.005
6/8/2018						<0.005			
8/6/2018	0.003 (J)								
9/26/2018							<0.005	<0.005	<0.005
10/1/2018		<0.005	0.00059 (J)	<0.005	<0.005	<0.005			
2/25/2019	0.001 (J)								
2/26/2019									
2/27/2019		<0.005	0.00064 (J)	<0.005	<0.005	<0.005			
3/4/2019							<0.005	<0.005	<0.005
3/28/2019		<0.005	0.00091 (J)						
3/29/2019				<0.005					
4/1/2019					<0.005	<0.005			
4/3/2019							0.00083 (J)	<0.005	<0.005
6/12/2019	0.003 (J)								
8/19/2019	0.0035 (J)								
9/24/2019		<0.005	0.0013 (J)	<0.005				<0.005	<0.005
9/25/2019					<0.005	<0.005	<0.005		
10/8/2019	0.0039 (J)								
2/10/2020		<0.005	0.0016 (J)						
2/11/2020				<0.005		<0.005			
2/12/2020					<0.005		<0.005	0.00037 (J)	<0.005
3/17/2020	0.003 (J)								
3/18/2020			0.00087 (J)						
3/19/2020		<0.005		<0.005	<0.005	<0.005			
3/24/2020								0.00035 (J)	<0.005
3/25/2020							0.00056 (J)		
8/26/2020	0.2 (O)								
9/22/2020	0.16 (O)						<0.005	<0.005	<0.005
9/23/2020		<0.005	0.0013 (J)	<0.005	<0.005	<0.005			
9/25/2020									
2/8/2021								<0.005	<0.005
2/9/2021							<0.005		
2/10/2021				<0.005	<0.005	<0.005			
2/12/2021		0.00086 (J)	0.0028 (J)						
3/2/2021	0.21 (O)							<0.005	<0.005
3/3/2021		<0.005	0.003 (J)	<0.005	<0.005	<0.005	<0.005		
8/19/2021		0.00055 (J)	0.0017 (J)		<0.005				
8/20/2021	0.074 (O)								
8/26/2021							0.00042 (J)	<0.005	<0.005
8/27/2021				<0.005		<0.005			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
2/8/2022	0.072 (O)								
2/9/2022		0.00072 (J)	0.0023 (J)	<0.005	<0.005	<0.005			
2/10/2022								<0.005	<0.005
2/11/2022							<0.005		
8/30/2022	0.075 (O)	<0.005		<0.005				<0.005	<0.005
8/31/2022			0.00085 (J)		<0.005	<0.005	<0.005		
2/7/2023	0.034	0.00097 (J)	0.0048 (J)	<0.005				<0.005	
2/8/2023					<0.005	<0.005			
2/9/2023							<0.005		<0.005
8/15/2023	0.031	<0.005	0.00072 (J)	<0.005	<0.005		<0.005	<0.005	<0.005
8/16/2023						<0.005			
2/20/2024	0.023	0.00055 (J)	0.0018 (J)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/23/2024									
8/20/2024		<0.005	0.00033 (J)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/25/2025		<0.005	0.0014 (J)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (bg)
5/1/2007	
9/12/2007	
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	
6/2/2016	<0.005
7/21/2016	
7/25/2016	
7/26/2016	<0.005
8/31/2016	
9/13/2016	
9/14/2016	
9/15/2016	<0.005
11/1/2016	
11/2/2016	<0.005
11/4/2016	
11/28/2016	
12/15/2016	
1/10/2017	<0.005
1/11/2017	
1/12/2017	
1/13/2017	
1/16/2017	
2/22/2017	
3/1/2017	
3/2/2017	
3/3/2017	
3/6/2017	
3/7/2017	
3/8/2017	<0.005
4/26/2017	<0.005
4/27/2017	
4/28/2017	
5/1/2017	
5/2/2017	
5/8/2017	
5/26/2017	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (bg)
6/27/2017	
6/28/2017	
6/29/2017	
6/30/2017	<0.005
7/17/2017	
10/16/2017	
2/19/2018	
3/27/2018	<0.005
3/28/2018	
3/29/2018	
6/5/2018	
6/6/2018	
6/7/2018	
6/8/2018	<0.005
8/6/2018	
9/26/2018	
10/1/2018	<0.005
2/25/2019	
2/26/2019	<0.005
2/27/2019	
3/4/2019	
3/28/2019	
3/29/2019	<0.005
4/1/2019	
4/3/2019	
6/12/2019	
8/19/2019	
9/24/2019	
9/25/2019	<0.005
10/8/2019	
2/10/2020	
2/11/2020	
2/12/2020	<0.005
3/17/2020	
3/18/2020	<0.005
3/19/2020	
3/24/2020	
3/25/2020	
8/26/2020	
9/22/2020	
9/23/2020	
9/25/2020	<0.005
2/8/2021	
2/9/2021	
2/10/2021	<0.005
2/12/2021	
3/2/2021	<0.005
3/3/2021	
8/19/2021	<0.005
8/20/2021	
8/26/2021	
8/27/2021	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (bg)
2/8/2022	
2/9/2022	
2/10/2022	<0.005
2/11/2022	
8/30/2022	
8/31/2022	<0.005
2/7/2023	
2/8/2023	<0.005
2/9/2023	
8/15/2023	<0.005
8/16/2023	
2/20/2024	
2/23/2024	<0.005
8/20/2024	<0.005
2/25/2025	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)
6/2/2016						0.035			
6/6/2016		<0.005	0.00061 (J)						
6/7/2016	<0.005			<0.005	0.0056				
7/25/2016						0.0312			
7/27/2016	<0.005	<0.005	0.0004 (J)	<0.005					
7/28/2016					0.0032 (J)				
8/30/2016									0.0073 (J)
9/16/2016	<0.005		0.0008 (J)						
9/19/2016		<0.005		<0.005	0.0047 (J)	0.0275			
11/1/2016						0.0255			
11/2/2016				<0.005					
11/3/2016	<0.005	<0.005	<0.005		0.013				
11/14/2016									0.0115
1/11/2017	<0.005	<0.005	<0.005						
1/13/2017				<0.005	0.011				
1/16/2017						0.0245			
2/21/2017						0.0272			
2/24/2017									0.0106
3/1/2017		<0.005	<0.005						
3/2/2017	<0.005								
3/6/2017				<0.005	0.011				
4/26/2017		<0.005	<0.005	<0.005	0.009 (J)	0.0244			
5/2/2017	<0.005								
5/8/2017									0.0099 (J)
6/28/2017		<0.005	<0.005						
6/29/2017	<0.005			<0.005	0.0093 (J)				
6/30/2017						0.0233			
7/11/2017									0.0096 (J)
10/10/2017									0.0036 (J)
10/11/2017							<0.005		
10/12/2017								<0.005	
11/20/2017							<0.005	<0.005	
1/10/2018								<0.005	
1/11/2018							<0.005		
1/12/2018									
2/19/2018								<0.005	
2/20/2018							<0.005		
3/27/2018						0.023			
3/28/2018	<0.005	<0.005	<0.005						
3/29/2018				<0.005	<0.005				
4/2/2018									<0.005
4/3/2018							<0.005	<0.005	
6/5/2018					0.0041 (J)				
6/6/2018				<0.005					
6/7/2018		<0.005							
6/11/2018	<0.005		<0.005			0.023			
6/28/2018							<0.005	<0.005	
8/7/2018							<0.005	<0.005	
9/19/2018									0.0036 (J)
9/24/2018							<0.005	<0.005	
9/25/2018	<0.005	<0.005	<0.005	<0.005	0.0044 (J)				
10/2/2018						0.022			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)
2/26/2019						0.021			
3/5/2019	<0.005		<0.005	<0.005	0.0039 (J)				
3/6/2019		<0.005							
4/1/2019						0.022			
4/2/2019	<0.005				0.0039 (J)				
4/3/2019		<0.005	<0.005	<0.005					
8/20/2019									0.00092 (J)
8/21/2019							0.00034 (J)	<0.005	
8/22/2019									
9/24/2019					0.0032 (J)				
9/25/2019	<0.005			<0.005		0.016			
9/26/2019		<0.005	<0.005						
10/8/2019									0.0014 (J)
10/9/2019							<0.005	<0.005	
2/11/2020	<0.005	<0.005	<0.005						
2/12/2020				<0.005	0.0081	0.014	0.00034 (J)	<0.005	
2/14/2020									
3/17/2020									0.0017 (J)
3/19/2020						0.014			
3/24/2020	<0.005	<0.005	<0.005	<0.005	0.0061			<0.005	
3/25/2020							0.00034 (J)		
8/27/2020									0.0011 (J)
9/22/2020									0.00097 (J)
9/23/2020	<0.005	<0.005	<0.005						
9/24/2020				<0.005	0.0079	0.0064	0.00053 (J)	<0.005	
9/25/2020									
2/9/2021	<0.005	<0.005	<0.005	<0.005	0.009				
2/10/2021							0.00098 (J)	<0.005	
2/11/2021						0.0078			
3/1/2021						0.0061			0.001 (J)
3/3/2021	<0.005	<0.005	<0.005	<0.005					
3/4/2021					0.0065		0.00071 (J)	<0.005	
8/19/2021						0.0052			0.00099 (J)
8/26/2021			<0.005				0.0011 (J)		
8/27/2021	<0.005	<0.005		<0.005					
9/1/2021					0.0068				
9/3/2021								<0.005	
2/8/2022							0.0012 (J)	<0.005	0.0013 (J)
2/9/2022	<0.005	<0.005	<0.005	<0.005	0.0078				
2/10/2022									
2/11/2022						0.0038 (J)			
8/30/2022	<0.005	<0.005	<0.005		0.0066				
8/31/2022				<0.005		0.004 (J)	0.00085 (J)	<0.005	0.00096 (J)
9/1/2022									
2/7/2023	<0.005	<0.005	<0.005	<0.005	0.014		0.00066 (J)		
2/8/2023						0.0031 (J)		<0.005	0.0011 (J)
8/15/2023	<0.005	<0.005	<0.005	<0.005	0.011		0.00072 (J)	<0.005	0.00072 (J)
8/16/2023						0.0028 (J)			
2/20/2024	<0.005	<0.005		<0.005	0.02	0.0029 (J)	0.00073 (J)	<0.005	0.0011 (J)
2/22/2024									
2/23/2024			<0.005						
8/20/2024	<0.005	<0.005		<0.005	0.02	0.0023 (J)			0.00034 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)
8/21/2024			<0.005				0.00048 (J)	<0.005	
8/23/2024									
2/25/2025	<0.005	<0.005	<0.005	<0.005	0.041 (o)	0.0023 (J)	<0.005	<0.005	<0.005
2/26/2025									

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38
6/2/2016	
6/6/2016	
6/7/2016	
7/25/2016	
7/27/2016	
7/28/2016	
8/30/2016	
9/16/2016	
9/19/2016	
11/1/2016	
11/2/2016	
11/3/2016	
11/14/2016	
1/11/2017	
1/13/2017	
1/16/2017	
2/21/2017	
2/24/2017	
3/1/2017	
3/2/2017	
3/6/2017	
4/26/2017	
5/2/2017	
5/8/2017	
6/28/2017	
6/29/2017	
6/30/2017	
7/11/2017	
10/10/2017	
10/11/2017	
10/12/2017	<0.005
11/20/2017	<0.005
1/10/2018	
1/11/2018	
1/12/2018	<0.005
2/19/2018	
2/20/2018	<0.005
3/27/2018	
3/28/2018	
3/29/2018	
4/2/2018	
4/3/2018	<0.005
6/5/2018	
6/6/2018	
6/7/2018	
6/11/2018	
6/28/2018	<0.005
8/7/2018	<0.005
9/19/2018	
9/24/2018	<0.005
9/25/2018	
10/2/2018	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38
2/26/2019	
3/5/2019	
3/6/2019	
4/1/2019	
4/2/2019	
4/3/2019	
8/20/2019	
8/21/2019	
8/22/2019	<0.005
9/24/2019	
9/25/2019	
9/26/2019	
10/8/2019	
10/9/2019	<0.005
2/11/2020	
2/12/2020	
2/14/2020	<0.005
3/17/2020	
3/19/2020	
3/24/2020	
3/25/2020	<0.005
8/27/2020	
9/22/2020	
9/23/2020	
9/24/2020	
9/25/2020	<0.005
2/9/2021	<0.005
2/10/2021	
2/11/2021	
3/1/2021	
3/3/2021	
3/4/2021	<0.005
8/19/2021	
8/26/2021	<0.005
8/27/2021	
9/1/2021	
9/3/2021	
2/8/2022	
2/9/2022	
2/10/2022	<0.005
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	<0.005
2/7/2023	
2/8/2023	<0.005
8/15/2023	
8/16/2023	<0.005
2/20/2024	
2/22/2024	<0.005
2/23/2024	
8/20/2024	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38
8/21/2024	
8/23/2024	<0.005
2/25/2025	
2/26/2025	<0.005

Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-41	YGWC-23S	YGWC-24SB	YGWC-36A	YGWC-42	YGWC-43	YGWC-49	YGWC-50	YAMW-1
6/7/2016		<0.005							
6/8/2016			<0.005						
7/28/2016		<0.005							
8/1/2016			<0.005						
8/30/2016					0.0025 (J)				
8/31/2016						<0.005			
9/1/2016							<0.005		
9/2/2016				0.0006 (J)					
9/20/2016		<0.005	<0.005						
11/8/2016		<0.005	<0.005						
11/14/2016				<0.005					
11/15/2016							0.0006 (J)		
11/16/2016					0.002 (J)	<0.005			
1/16/2017		<0.005							
1/17/2017			<0.005						
2/24/2017						<0.005			
2/27/2017					0.0021 (J)		0.0008 (J)		
2/28/2017				<0.005					
3/8/2017			<0.005						
3/9/2017		<0.005							
5/2/2017		<0.005	<0.005						
5/9/2017				<0.005			<0.005		
5/10/2017					0.0021 (J)	<0.005			
7/7/2017			<0.005						
7/10/2017		<0.005							
7/11/2017					0.0014 (J)	<0.005			
7/13/2017				<0.005			0.0005 (J)		
9/22/2017				<0.005					
9/29/2017				<0.005					
10/6/2017				<0.005					
10/11/2017							0.0006 (J)		
10/12/2017	0.0011 (J)				0.0017 (J)	0.0006 (J)			
11/21/2017	0.0003 (J)								
1/11/2018	0.0003 (J)								
2/19/2018	<0.005								
3/30/2018		<0.005	<0.005	<0.005					
4/3/2018	<0.005								
4/4/2018					<0.005	<0.005	<0.005		
6/12/2018		<0.005	<0.005						
6/13/2018				<0.005					
6/27/2018	0.00069 (J)								
8/7/2018	<0.005								
9/20/2018					0.003 (J)	0.0034 (J)	<0.005		
9/24/2018	<0.005								
9/26/2018			<0.005	<0.005					
9/27/2018		<0.005							
10/16/2018									0.032
3/5/2019			<0.005						
3/6/2019		<0.005		<0.005					
4/4/2019		<0.005	<0.005	<0.005					
8/21/2019						0.0026 (J)			
8/22/2019	<0.005				0.0019 (J)				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-41	YGWC-23S	YGWC-24SB	YGWC-36A	YGWC-42	YGWC-43	YGWC-49	YGWC-50	YAMW-1
9/26/2019			<0.005	0.00048 (J)			<0.005		0.015
9/27/2019		<0.005							
10/9/2019	<0.005				0.0019 (J)	0.0023 (J)			
12/9/2019									0.031
1/3/2020									<0.005
2/13/2020			<0.005						
2/14/2020	<0.005			0.00041 (J)	0.0019 (J)				
2/17/2020		<0.005				0.00088 (J)	<0.005		
3/25/2020	<0.005			0.00038 (J)	0.0018 (J)	0.0016 (J)	<0.005		<0.005
3/26/2020		<0.005	<0.005						
9/23/2020			<0.005						
9/24/2020		<0.005			0.0017 (J)		<0.005		0.01
9/25/2020	<0.005					0.0018 (J)			
10/7/2020				0.00086 (J)					
2/9/2021		<0.005	<0.005			0.0017 (J)	<0.005		0.03
2/10/2021	<0.005			0.00038 (J)	0.0019 (J)				
3/3/2021			<0.005						0.018
3/4/2021	<0.005	<0.005		<0.005	0.0018 (J)	0.0015 (J)	<0.005		
8/25/2021		<0.005			0.0014 (J)				
8/26/2021	<0.005								
9/1/2021			<0.005				<0.005		0.022
9/3/2021				<0.005					
9/27/2021						<0.005			
2/8/2022	<0.005					0.00045 (J)	<0.005		
2/10/2022		<0.005	<0.005		0.0017 (J)				0.011
2/11/2022				<0.005					
8/31/2022							<0.005		0.0041 (J)
9/1/2022	<0.005	<0.005		<0.005	0.0015 (J)	0.0005 (J)			
2/8/2023	<0.005	<0.005			0.0018 (J)	0.00049 (J)			
2/9/2023				<0.005			<0.005		0.0045 (J)
2/10/2023			<0.005						
8/16/2023	<0.005	<0.005	<0.005	<0.005	0.0014 (J)	0.00046 (J)	<0.005		0.0027 (J)
8/17/2023								0.0086	
12/20/2023								0.0052	
2/21/2024		<0.005					<0.005		
2/22/2024	<0.005				0.0023 (J)	0.00038 (J)		0.0063	
2/23/2024			<0.005	<0.005					0.0044 (J)
6/10/2024								0.0055	
8/21/2024		<0.005							
8/22/2024			<0.005	<0.005	0.0017 (J)	0.00057 (J)	<0.005		0.0018 (J)
8/23/2024	<0.005							0.006	
11/26/2024								0.0075	
2/26/2025	<0.005			<0.005	0.002 (J)		<0.005	0.0044 (J)	0.004 (J)
2/27/2025		<0.005				<0.005			
3/17/2025			<0.005						
5/21/2025								<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-2
6/7/2016	
6/8/2016	
7/28/2016	
8/1/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/20/2016	
11/8/2016	
11/14/2016	
11/15/2016	
11/16/2016	
1/16/2017	
1/17/2017	
2/24/2017	
2/27/2017	
2/28/2017	
3/8/2017	
3/9/2017	
5/2/2017	
5/9/2017	
5/10/2017	
7/7/2017	
7/10/2017	
7/11/2017	
7/13/2017	
9/22/2017	
9/29/2017	
10/6/2017	
10/11/2017	
10/12/2017	
11/21/2017	
1/11/2018	
2/19/2018	
3/30/2018	
4/3/2018	
4/4/2018	
6/12/2018	
6/13/2018	
6/27/2018	
8/7/2018	
9/20/2018	
9/24/2018	
9/26/2018	
9/27/2018	
10/16/2018	
3/5/2019	
3/6/2019	
4/4/2019	
8/21/2019	
8/22/2019	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-2
9/26/2019	
9/27/2019	
10/9/2019	
12/9/2019	
1/3/2020	
2/13/2020	
2/14/2020	
2/17/2020	
3/25/2020	
3/26/2020	
9/23/2020	0.0025 (J)
9/24/2020	
9/25/2020	
10/7/2020	
2/9/2021	0.001 (J)
2/10/2021	
3/3/2021	0.00082 (J)
3/4/2021	
8/25/2021	
8/26/2021	
9/1/2021	0.00093 (J)
9/3/2021	
9/27/2021	
2/8/2022	
2/10/2022	0.00052 (J)
2/11/2022	
8/31/2022	
9/1/2022	0.0068
2/8/2023	<0.005
2/9/2023	
2/10/2023	
8/16/2023	
8/17/2023	0.0053
12/20/2023	
2/21/2024	
2/22/2024	0.00044 (J)
2/23/2024	
6/10/2024	
8/21/2024	0.0023 (J)
8/22/2024	
8/23/2024	
11/26/2024	
2/26/2025	<0.005
2/27/2025	
3/17/2025	
5/21/2025	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-3	YAMW-4	YAMW-5	PZ-35	PZ-37D	PZ-37	PZ-51	PZ-52D	PZ-54D
10/12/2017						0.0078 (J)			
11/21/2017						0.0097 (J)			
1/11/2018						0.0131			
2/20/2018						0.016			
4/3/2018						0.015			
6/29/2018						0.013			
8/6/2018						0.0053 (J)			
9/24/2018						0.0071 (J)			
10/16/2018				<0.005					
9/26/2019				<0.005					
3/25/2020				0.0059					
9/23/2020		0.00052 (J)							
9/24/2020			0.00077 (J)	<0.005					
9/25/2020						0.0023 (J)			
2/9/2021		0.00063 (J)	<0.005			0.0023 (J)			
2/10/2021				<0.005					
3/3/2021		0.001 (J)							
3/4/2021			<0.005	<0.005		0.003 (J)			
5/13/2021					<0.005				
8/25/2021		0.00041 (J)				0.0068			
8/26/2021			<0.005						
9/1/2021				<0.005					
9/3/2021					<0.005				
11/4/2021								0.00082 (J)	
2/10/2022	0.16	0.00044 (J)	<0.005	<0.005		0.0036 (J)	0.033		
2/11/2022					<0.005			0.0011 (J)	
4/4/2022						0.0032 (J)			
4/7/2022						0.0017 (J)			
8/31/2022				<0.005					
9/1/2022	0.058	0.00048 (J)	<0.005		<0.005	0.0025 (J)	0.018	0.0016 (J)	
2/8/2023		0.00085 (J)	<0.005		<0.005	0.0022 (J)		0.0026 (J)	
2/9/2023	0.066			<0.005			0.0071		
8/16/2023	0.14	<0.005	<0.005	<0.005	<0.005		0.0056		
8/17/2023						0.0027 (J)		0.0031 (J)	
2/21/2024	0.051				<0.005	0.0017 (J)		0.0029 (J)	
2/22/2024		<0.005	<0.005				0.0051		
2/23/2024				<0.005					
6/12/2024									0.0033 (J)
8/21/2024					<0.005	0.0037 (J)		0.0024 (J)	
8/22/2024	0.035			<0.005			0.0048 (J)		
8/23/2024		<0.005	<0.005						
11/7/2024									0.004 (J)
2/25/2025				<0.005					
2/26/2025	0.028	<0.005							
2/27/2025			<0.005		<0.005	0.0019 (J)	0.0043 (J)	0.0035 (J)	0.0034 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	PZ-55
10/12/2017	
11/21/2017	
1/11/2018	
2/20/2018	
4/3/2018	
6/29/2018	
8/6/2018	
9/24/2018	
10/16/2018	
9/26/2019	
3/25/2020	
9/23/2020	
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	
3/3/2021	
3/4/2021	
5/13/2021	
8/25/2021	
8/26/2021	
9/1/2021	
9/3/2021	
11/4/2021	
2/10/2022	
2/11/2022	
4/4/2022	
4/7/2022	
8/31/2022	
9/1/2022	
2/8/2023	
2/9/2023	
8/16/2023	
8/17/2023	
2/21/2024	
2/22/2024	0.0041 (J)
2/23/2024	
6/12/2024	
8/21/2024	0.0018 (J)
8/22/2024	
8/23/2024	
11/7/2024	
2/25/2025	
2/26/2025	
2/27/2025	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/1/2016		0.321 (U)	0.42			0.896			
6/2/2016					2.51		0.721	5.11	0.614
7/25/2016			1.83			2.28			
7/26/2016		0.707			3.82		1.26	6.92	1.47
8/31/2016	1.2								
9/13/2016		1.22	0.841						
9/14/2016				0.98		0.821	0.901	3.96	1.27
9/15/2016					4.24				
11/1/2016		0.805			3.92	0.585			
11/2/2016							1.09	4.53	
11/4/2016			0.166	0.277					0.434
11/28/2016	0.264 (U)								
12/15/2016				0.071 (U)					
1/10/2017									
1/11/2017		0.705			2.52	1.22			
1/12/2017								4.43	0.202
1/13/2017							1.19		
1/16/2017			0	0.44					
2/22/2017	1.06 (U)								
3/1/2017						0.877			
3/2/2017		0.251	0.504		3.13				
3/3/2017				0.448					
3/6/2017							0.669		
3/7/2017								4.8	0.0674
3/8/2017									
4/26/2017					2.35	0.672			
4/27/2017		1.08	0.593						
4/28/2017				0.548					
5/1/2017							0.803	4.16	
5/2/2017									0.444
5/8/2017	0.187 (U)								
5/26/2017				0					
6/27/2017		1.02 (U)	0.657 (U)					2.8	0.77 (U)
6/28/2017				0.608 (U)	2.6	1.07 (U)			
6/29/2017							1.35		
6/30/2017									
7/17/2017	1.42								
10/16/2017	1.17								
2/19/2018	1.58								
3/27/2018			0.39						
3/28/2018				0.412	3	0.65			
3/29/2018		0.503					0.703	3.42	0.648
6/5/2018		0.771 (U)							
6/6/2018			2.8					3.99	
6/7/2018				0.73 (U)	2.79		0.628 (U)		0.745 (U)
6/8/2018						1.89			
8/6/2018	0.196 (U)								
9/26/2018							0.756 (U)	2.73	0.377 (U)
10/1/2018		0.783 (U)	1.06 (U)	0.756 (U)	3.14	1.58			
2/26/2019									
2/27/2019		1.21 (U)	0.637 (U)	0.635 (U)	3.79	3.67			
3/4/2019							1.21 (U)	4.43	1 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
3/28/2019		1.13 (U)	0.125 (U)						
3/29/2019				0.224 (U)					
4/1/2019					4.33	2.28			
4/3/2019							1.07 (U)	4.79	0.43 (U)
8/19/2019	1.39								
9/24/2019		1.22 (U)	0.949 (U)	0.429 (U)				4.06	0.699 (U)
9/25/2019					4.2	1.6	1.86		
10/8/2019	1.32 (U)								
2/10/2020		1.41	1.25 (U)						
2/11/2020				0.817 (U)	3.87	1.85			
2/12/2020							1.25	4.02	0.913 (U)
3/17/2020	1 (U)								
3/18/2020			0.458 (U)						
3/19/2020		1.1		0.715 (U)	3.96	2.2			
3/24/2020								3.52	1.37
3/25/2020							0.766 (U)		
8/26/2020	1.75								
9/22/2020	0.688 (U)						0.795 (U)	2.98	0.428 (U)
9/23/2020		1.35 (U)	0.00884 (U)	0.565 (U)	4.14	1.14 (U)			
9/25/2020									
2/8/2021								2.89	0.613 (U)
2/9/2021							0.626 (U)		
2/10/2021				1.04 (U)	3.65	2.46			
2/12/2021		0.366 (U)	0.458 (U)						
3/2/2021	0.948 (U)							1.67	0.579 (U)
3/3/2021		0.492 (U)	0.105 (U)	0.459 (U)	3.58	2.03	1		
8/19/2021		1.17 (U)	0.0732 (U)		3.53				
8/20/2021	0.528 (U)								
8/26/2021							1.17 (U)	4.68	0.798 (U)
8/27/2021				0.409 (U)		1.34			
2/8/2022	0.462 (U)								
2/9/2022		1.19	0.422 (U)	0.894 (U)	3.28	1.91			
2/10/2022								3.33	0.375 (U)
2/11/2022							0.996		
8/30/2022	1.52	0.827		0.699 (U)				5.34	0.72 (U)
8/31/2022			0.49 (U)		2.12	1.33	0.962		
2/7/2023	1	0.92 (U)	0.661 (U)	0.536 (U)				3.99	
2/8/2023					2.74	1.18			
2/9/2023							1.12		0.0815 (U)
8/15/2023	0.833 (U)	0.935 (U)	0.726 (U)	0.611 (U)	2.79		1.14	3.44	0.846 (U)
8/16/2023						1.87			
2/20/2024	0.978 (U)	0.274 (U)	0.798 (U)	0.784 (U)	2.56	1.09 (U)	1.1 (U)	2.8	0.63 (U)
2/23/2024									
8/20/2024		0.46 (U)	0.65 (U)	0.0912 (U)	3.09	0.921 (U)	1.18	3.02	0.695 (U)
2/25/2025		1.24	0.978 (U)	0.123 (U)	3.04	1.46	1.54	3.65	0.767 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (bg)
6/1/2016	
6/2/2016	0.329 (U)
7/25/2016	
7/26/2016	1.51
8/31/2016	
9/13/2016	
9/14/2016	
9/15/2016	1.04
11/1/2016	
11/2/2016	0.496
11/4/2016	
11/28/2016	
12/15/2016	
1/10/2017	0.376 (U)
1/11/2017	
1/12/2017	
1/13/2017	
1/16/2017	
2/22/2017	
3/1/2017	
3/2/2017	
3/3/2017	
3/6/2017	
3/7/2017	
3/8/2017	0.0745
4/26/2017	0.282
4/27/2017	
4/28/2017	
5/1/2017	
5/2/2017	
5/8/2017	
5/26/2017	
6/27/2017	
6/28/2017	
6/29/2017	
6/30/2017	0.994
7/17/2017	
10/16/2017	
2/19/2018	
3/27/2018	0.189
3/28/2018	
3/29/2018	
6/5/2018	
6/6/2018	
6/7/2018	
6/8/2018	0.218 (U)
8/6/2018	
9/26/2018	
10/1/2018	1.24
2/26/2019	0.202 (U)
2/27/2019	
3/4/2019	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (bg)
3/28/2019	
3/29/2019	0 (U)
4/1/2019	
4/3/2019	
8/19/2019	
9/24/2019	
9/25/2019	0.707 (U)
10/8/2019	
2/10/2020	
2/11/2020	
2/12/2020	1.07 (U)
3/17/2020	
3/18/2020	0.207 (U)
3/19/2020	
3/24/2020	
3/25/2020	
8/26/2020	
9/22/2020	
9/23/2020	
9/25/2020	0.603 (U)
2/8/2021	
2/9/2021	
2/10/2021	0.353 (U)
2/12/2021	
3/2/2021	0.71 (U)
3/3/2021	
8/19/2021	0.786 (U)
8/20/2021	
8/26/2021	
8/27/2021	
2/8/2022	
2/9/2022	
2/10/2022	0 (U)
2/11/2022	
8/30/2022	
8/31/2022	0.421 (U)
2/7/2023	
2/8/2023	0.83 (U)
2/9/2023	
8/15/2023	0.652 (U)
8/16/2023	
2/20/2024	
2/23/2024	0.736 (U)
8/20/2024	0.667 (U)
2/25/2025	0.376 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)
6/2/2016						0.0652 (U)			
6/6/2016		0.0804 (U)	0.301 (U)						
6/7/2016	0.158 (U)			0.0191 (U)	0.347				
7/25/2016						3.01			
7/27/2016	0.0354	0.206	0.196	0.541					
7/28/2016					0.815				
8/30/2016									1.09
9/16/2016	1.04		0.915						
9/19/2016		1.58		0.826	0.862	0.871 (U)			
11/1/2016						0.307			
11/2/2016				0.791					
11/3/2016	0.314	0.342	0.928		0.797				
12/15/2016									1
1/11/2017	0.34 (U)	0.365 (U)	0.502 (U)						
1/13/2017				0.296	0.72				
1/16/2017						0.284			
2/21/2017						0.503			
2/24/2017									0.504
3/1/2017		0.395	0.202						
3/2/2017	0.746								
3/6/2017				0.518	0.518				
4/26/2017		0.507	0.264	0.282	1.13	0.204			
5/2/2017	0.111								
5/8/2017									0.455
6/28/2017		0.892	0.636 (U)						
6/29/2017	0.576 (U)			1.12	0.841 (U)				
6/30/2017						0.738 (U)			
7/11/2017									0.471 (U)
10/10/2017									0.649 (U)
10/11/2017							0.586 (U)		
10/12/2017								1.49	
11/20/2017							0.816 (U)	0.918 (U)	
1/10/2018								1.05	
1/11/2018							0.841 (U)		
1/12/2018									
2/19/2018								2.05	
2/20/2018							1.58		
3/27/2018						0.31			
3/28/2018	0.438	0.92	0.56						
3/29/2018				1.73	1.91				
4/2/2018									0.512
4/3/2018							0.385 (U)	0.68 (U)	
6/5/2018					1.39				
6/6/2018				0.694 (U)					
6/7/2018		0.668 (U)							
6/11/2018	0.901 (U)		0.649 (U)			0.608 (U)			
6/28/2018							0.283 (U)	1.28	
8/7/2018							0.332 (U)	1.16	
9/19/2018									0.789 (U)
9/24/2018							0.767 (U)	0.965	
9/25/2018	0.68 (U)	0.141 (U)	0.574 (U)	0.772 (U)	1.62				
10/2/2018						0.97 (U)			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)
2/26/2019						0.524 (U)			
3/5/2019	0.272 (U)		0.474 (U)	0.84 (U)	0.985 (U)				
3/6/2019		0.714 (U)							
4/1/2019						1.02 (U)			
4/2/2019	0.847 (U)				1.42				
4/3/2019		0.385 (U)	0.429 (U)	1.01					
8/20/2019									2.44
8/21/2019							1.01 (U)	1.24	
8/22/2019									
9/24/2019					1.35				
9/25/2019	0.412 (U)			1.18 (U)		1.02 (U)			
9/26/2019		0.386 (U)	0.222 (U)						
10/8/2019									1.72
10/9/2019							1.02	0.866 (U)	
2/11/2020	0.461 (U)	1.48	0.597 (U)						
2/12/2020				1.11 (U)	1.61	0.301 (U)	0.45 (U)	1.83	
2/14/2020									
3/17/2020									1.22 (U)
3/19/2020						1			
3/24/2020	0.534 (U)	0.632 (U)	0.262 (U)	1.88	1.24 (U)			1.27 (U)	
3/25/2020							0.377 (U)		
8/27/2020									1.26 (U)
9/22/2020									1.06 (U)
9/23/2020	0.466 (U)	0.887 (U)	0.43 (U)						
9/24/2020				0.611 (U)	1.8	0.684 (U)	0.568 (U)	0.634 (U)	
9/25/2020									
2/9/2021	0.529 (U)	0.314 (U)	0.259 (U)	0.284 (U)	1.24				
2/10/2021							0.518 (U)	0.783 (U)	
2/11/2021						0.678 (U)			
3/1/2021						0.412 (U)			1.2
3/3/2021	0.59 (U)	0.565 (U)	0.352 (U)	0.133 (U)					
3/4/2021					1.2		0.636 (U)	0.818 (U)	
8/19/2021						0.234 (U)			1.07 (U)
8/26/2021			0.686 (U)				0.674 (U)		
8/27/2021	0.9 (U)	0.761 (U)		0.779 (U)					
9/1/2021					1.86				
9/3/2021								0.971 (U)	
2/8/2022							0.834	0.534 (U)	0.4 (U)
2/9/2022	0.133 (U)	0.571 (U)	0.0618 (U)	0.504 (U)	1.94				
2/10/2022						0.268 (U)			
8/30/2022	1.08	1.01	0.611 (U)		1.27				
8/31/2022				0.184 (U)		0.506 (U)	0.937	0.513 (U)	0.714 (U)
9/1/2022									
2/7/2023	0.367 (U)	0.485 (U)	0.656 (U)	0.794 (U)	1.53		1.41		
2/8/2023						0.417 (U)		1.56	0.375 (U)
8/15/2023	0.0388 (U)	0.655 (U)	0.347 (U)	0.165 (U)	1.68		0.608 (U)	0.325 (U)	0.947 (U)
8/16/2023						0.895 (U)			
2/20/2024	0.0387 (U)	0.068 (U)		0.165 (U)	1.19	0.375 (U)	0.701 (U)	0.437 (U)	0.939 (U)
2/22/2024									
2/23/2024			0.318 (U)						
8/20/2024	0.554 (U)	0.223 (U)		0.371 (U)	0.545 (U)	0.748 (U)			0.873 (U)
8/21/2024			0.684 (U)				1.52	0.265 (U)	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)
8/23/2024									
2/25/2025	0.0768 (U)	0.391 (U)	0.359 (U)	1.2 (U)	1.14 (U)	0.385 (U)	0.895 (U)	0.685 (U)	1.1 (U)
2/26/2025									

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38
6/2/2016	
6/6/2016	
6/7/2016	
7/25/2016	
7/27/2016	
7/28/2016	
8/30/2016	
9/16/2016	
9/19/2016	
11/1/2016	
11/2/2016	
11/3/2016	
12/15/2016	
1/11/2017	
1/13/2017	
1/16/2017	
2/21/2017	
2/24/2017	
3/1/2017	
3/2/2017	
3/6/2017	
4/26/2017	
5/2/2017	
5/8/2017	
6/28/2017	
6/29/2017	
6/30/2017	
7/11/2017	
10/10/2017	
10/11/2017	
10/12/2017	1.24
11/20/2017	0.342 (U)
1/10/2018	
1/11/2018	
1/12/2018	1.04
2/19/2018	
2/20/2018	1.6
3/27/2018	
3/28/2018	
3/29/2018	
4/2/2018	
4/3/2018	0.726 (U)
6/5/2018	
6/6/2018	
6/7/2018	
6/11/2018	
6/28/2018	1.06 (U)
8/7/2018	1.21
9/19/2018	
9/24/2018	1.52
9/25/2018	
10/2/2018	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38
2/26/2019	
3/5/2019	
3/6/2019	
4/1/2019	
4/2/2019	
4/3/2019	
8/20/2019	
8/21/2019	
8/22/2019	1.97
9/24/2019	
9/25/2019	
9/26/2019	
10/8/2019	
10/9/2019	0.751 (U)
2/11/2020	
2/12/2020	
2/14/2020	1.12 (U)
3/17/2020	
3/19/2020	
3/24/2020	
3/25/2020	0.321 (U)
8/27/2020	
9/22/2020	
9/23/2020	
9/24/2020	
9/25/2020	0.246 (U)
2/9/2021	0.626 (U)
2/10/2021	
2/11/2021	
3/1/2021	
3/3/2021	
3/4/2021	0.816 (U)
8/19/2021	
8/26/2021	0.427 (U)
8/27/2021	
9/1/2021	
9/3/2021	
2/8/2022	
2/9/2022	
2/10/2022	0.791 (U)
8/30/2022	
8/31/2022	
9/1/2022	0.52 (U)
2/7/2023	
2/8/2023	0.361 (U)
8/15/2023	
8/16/2023	0.617 (U)
2/20/2024	
2/22/2024	0.416 (U)
2/23/2024	
8/20/2024	
8/21/2024	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38
8/23/2024	0.22 (U)
2/25/2025	
2/26/2025	0.925 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-41	YGWC-23S	YGWC-24SB	YGWC-36A	YGWC-42	YGWC-43	YGWC-49	YGWC-50	YAMW-1
6/7/2016		0.303 (U)							
6/8/2016			1.06						
7/28/2016		0.386							
8/1/2016			0.467						
8/30/2016					2.99				
8/31/2016						0.926			
9/1/2016							1.2		
9/2/2016				0.873					
9/20/2016		1.47	0.853						
11/8/2016		0.22	0.433						
11/14/2016				0.0451					
11/15/2016							0.645		
11/16/2016					4.01	0.773			
1/16/2017		0.147							
1/17/2017			0.0759 (U)						
2/24/2017						0.661			
2/27/2017					2.5		0.244		
2/28/2017				1.34					
3/8/2017			0.479						
3/9/2017		0.0892							
5/2/2017		0.149	0.506						
5/9/2017				0.309			0.519		
5/10/2017					2.55	1.27			
7/7/2017			0.713 (U)						
7/10/2017		0.815 (U)							
7/11/2017					3.94	1.02			
7/13/2017				0.618 (U)			0.5 (U)		
9/22/2017				0.667 (U)					
9/29/2017				1.63					
10/6/2017				0.641 (U)					
10/11/2017							1.41		
10/12/2017	0.641 (U)				3.57	1.58			
11/21/2017	2.01								
1/11/2018	0.919 (U)								
2/19/2018	1.82								
3/30/2018		0.659	0.409	0.721					
4/3/2018	0.911 (U)								
4/4/2018					1.9	1.71	0.442		
6/12/2018		1.03 (U)	0.728 (U)						
6/13/2018				1.04 (U)					
6/27/2018	0.429 (U)								
8/7/2018	0.579 (U)								
9/20/2018					1.94	2.8	1.14 (U)		
9/24/2018	1.39								
9/26/2018			0.981	0.604 (U)					
9/27/2018		1.06							
10/16/2018									0.384 (U)
3/5/2019			0.837 (U)						
3/6/2019		0.736 (U)		0.919 (U)					
4/4/2019		0.474 (U)		1.05 (U)					
4/9/2019			0.502 (U)						
8/21/2019						3.16			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-41	YGWC-23S	YGWC-24SB	YGWC-36A	YGWC-42	YGWC-43	YGWC-49	YGWC-50	YAMW-1
8/22/2019	2.03				1.59				
9/26/2019			0.964 (U)	0.979 (U)			1.16 (U)		
9/27/2019		0.684 (U)							
10/9/2019	0.609 (U)				0.995	3.65			
2/13/2020			0.474 (U)						
2/14/2020	1.16 (U)			1.06 (U)	1.56				
2/17/2020		1.46				4.19	1.52		
3/25/2020	0.568 (U)			1.22 (U)	1.17 (U)	3.04	1.2 (U)		0.525 (U)
3/26/2020		0.281 (U)	0.511 (U)						
9/23/2020			0.786 (U)						
9/24/2020		0.788 (U)			0.751 (U)		1.57 (U)		0.547 (U)
9/25/2020	0.769 (U)					4.75			
10/7/2020				1.58					
2/9/2021		0.464 (U)	0.678 (U)			6.38	0.137 (U)		0.866 (U)
2/10/2021	0.548 (U)			0.466 (U)	0.612 (U)				
3/3/2021			0.415 (U)						0.377 (U)
3/4/2021	1.23	0.771 (U)		0.0671 (U)	1.02	6.02	0.579 (U)		
8/25/2021		0.624 (U)			0.978 (U)				
8/26/2021	0.356 (U)								
9/1/2021			0.444 (U)				0.686 (U)		0.676 (U)
9/3/2021				0.622 (U)					
9/27/2021						1.54			
2/8/2022	0.594 (U)					3.11	0.201 (U)		
2/10/2022		0.197 (U)	0.846 (U)		0.307 (U)				0.233 (U)
2/11/2022				0.395 (U)					
8/31/2022							0.823 (U)		0.313 (U)
9/1/2022	0.0906 (U)	1.23 (U)		0.189 (U)	0.596 (U)	4.16			
2/8/2023	0.852 (U)	0.4 (U)			0.817	3.73			
2/9/2023				0.326 (U)			0.667 (U)		0.595 (U)
2/10/2023			0.137 (U)						
8/16/2023	1.23	0.502 (U)	0.889 (U)	0.319 (U)	1.08 (U)	4.92	0.982 (U)		0.575 (U)
8/17/2023								1.09 (U)	
12/20/2023								0.477 (U)	
2/21/2024		0.345 (U)					0.595 (U)		
2/22/2024	0.752 (U)				1.05 (U)	4.56		0.871 (U)	
2/23/2024			0.311 (U)	0.536 (U)					0.566 (U)
6/10/2024								0.828 (U)	
8/21/2024		0.285 (U)							
8/22/2024			0.103 (U)	0.936 (U)	0.134 (U)	4.45	0.852		0.386 (U)
8/23/2024	1.01 (U)							0.433 (U)	
11/26/2024								0.398 (U)	
2/26/2025	0.612 (U)			0.507 (U)	0.798 (U)		1.19	1.03 (U)	0.645 (U)
2/27/2025		0.923 (U)				4.55			
3/17/2025			0.327 (U)						
5/21/2025								0.863 (U)	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-2
6/7/2016	
6/8/2016	
7/28/2016	
8/1/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/20/2016	
11/8/2016	
11/14/2016	
11/15/2016	
11/16/2016	
1/16/2017	
1/17/2017	
2/24/2017	
2/27/2017	
2/28/2017	
3/8/2017	
3/9/2017	
5/2/2017	
5/9/2017	
5/10/2017	
7/7/2017	
7/10/2017	
7/11/2017	
7/13/2017	
9/22/2017	
9/29/2017	
10/6/2017	
10/11/2017	
10/12/2017	
11/21/2017	
1/11/2018	
2/19/2018	
3/30/2018	
4/3/2018	
4/4/2018	
6/12/2018	
6/13/2018	
6/27/2018	
8/7/2018	
9/20/2018	
9/24/2018	
9/26/2018	
9/27/2018	
10/16/2018	
3/5/2019	
3/6/2019	
4/4/2019	
4/9/2019	
8/21/2019	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-2
8/22/2019	
9/26/2019	
9/27/2019	
10/9/2019	
2/13/2020	
2/14/2020	
2/17/2020	
3/25/2020	
3/26/2020	
9/23/2020	0.0813 (U)
9/24/2020	
9/25/2020	
10/7/2020	
2/9/2021	0.492 (U)
2/10/2021	
3/3/2021	0.563 (U)
3/4/2021	
8/25/2021	
8/26/2021	
9/1/2021	0.761 (U)
9/3/2021	
9/27/2021	
2/8/2022	
2/10/2022	0 (U)
2/11/2022	
8/31/2022	
9/1/2022	0.959 (U)
2/8/2023	0.0994 (U)
2/9/2023	
2/10/2023	
8/16/2023	
8/17/2023	0.686 (U)
12/20/2023	
2/21/2024	
2/22/2024	0.463 (U)
2/23/2024	
6/10/2024	
8/21/2024	0.465 (U)
8/22/2024	
8/23/2024	
11/26/2024	
2/26/2025	0.0371 (U)
2/27/2025	
3/17/2025	
5/21/2025	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-3	YAMW-4	YAMW-5	PZ-35	PZ-37D	PZ-37	PZ-51	PZ-52D	PZ-54D
10/12/2017						1.83			
11/21/2017						1.33			
1/11/2018						1.53			
2/20/2018						2.75			
4/3/2018						1.47			
6/29/2018						1.69			
8/6/2018						1.69			
9/24/2018						2.26			
10/16/2018				0.363 (U)					
3/25/2020				0.197 (U)					
9/23/2020		1.2 (U)							
9/24/2020			0.668 (U)	1.07 (U)					
9/25/2020						1.68 (U)			
2/9/2021		0.659 (U)	1.07 (U)			1.52			
2/10/2021				0.546 (U)					
3/3/2021		1.07							
3/4/2021			1.46	0.397 (U)		1.49			
5/13/2021					5.36				
8/25/2021		0.0991 (U)				1.41			
8/26/2021			0.724 (U)						
9/1/2021				0.696 (U)					
9/3/2021					3.18				
11/4/2021								0.721 (U)	
2/10/2022	0.988 (U)	0.702 (U)	1.25 (U)	1.25 (U)		0.81 (U)	0.964 (U)		
2/11/2022					0.815 (U)			1.52	
8/31/2022				0.326 (U)					
9/1/2022	0.975 (U)	0.381 (U)	0.811 (U)		2.54	0.463 (U)	0.389 (U)	0.225 (U)	
2/8/2023		0.239 (U)	0.502 (U)		2.37	0.742 (U)		0.218 (U)	
2/9/2023	2.19			0.718 (U)			0.467 (U)		
8/16/2023	2.77	0.431 (U)	0.858 (U)	0.643 (U)	2.05		0.924 (U)		
8/17/2023						1.9		1.88	
2/21/2024	0.973 (U)				1.78	0.789 (U)		0.689 (U)	
2/22/2024		0.196 (U)	0.606 (U)				0.894 (U)		
2/23/2024				0.824 (U)					
6/12/2024									4.88
8/21/2024					3.19	0.763 (U)		0.998 (U)	
8/22/2024	1.47			0.858 (U)			0.966		
8/23/2024		0.445 (U)	0.826 (U)						
11/7/2024									0.391 (U)
2/25/2025				0.807 (U)					
2/26/2025	1.63	0.314 (U)							
2/27/2025			0.644 (U)		2.37	0.883 (U)	0.867 (U)	0.702 (U)	0.73 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	PZ-55
10/12/2017	
11/21/2017	
1/11/2018	
2/20/2018	
4/3/2018	
6/29/2018	
8/6/2018	
9/24/2018	
10/16/2018	
3/25/2020	
9/23/2020	
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	
3/3/2021	
3/4/2021	
5/13/2021	
8/25/2021	
8/26/2021	
9/1/2021	
9/3/2021	
11/4/2021	
2/10/2022	
2/11/2022	
8/31/2022	
9/1/2022	
2/8/2023	
2/9/2023	
8/16/2023	
8/17/2023	
2/21/2024	
2/22/2024	1.18 (U)
2/23/2024	
6/12/2024	
8/21/2024	0.206 (U)
8/22/2024	
8/23/2024	
11/7/2024	
2/25/2025	
2/26/2025	
2/27/2025	0.875 (U)

Time Series

Constituent: Fluoride (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/1/2016		0.12 (J)	<0.1			0.15 (J)			
6/2/2016					0.62		<0.1	0.11 (J)	<0.1
7/25/2016			0.06 (J)			0.14 (J)			
7/26/2016		0.08 (J)			0.49		<0.1	0.05 (J)	<0.1
8/31/2016	0.14 (J)								
9/13/2016		0.11 (J)	<0.1						
9/14/2016				0.08 (J)		0.18 (J)	<0.1	0.04 (J)	<0.1
9/15/2016					0.54				
11/1/2016		0.1 (J)			0.68	0.15 (J)			
11/2/2016							0.07 (J)	0.2 (J)	
11/4/2016			0.07 (J)	0.12 (J)					<0.1
11/28/2016	0.12 (J)								
12/15/2016				0.06 (J)					
1/10/2017									
1/11/2017		0.05 (J)			0.49	0.09 (J)			
1/12/2017								0.04 (J)	<0.1
1/13/2017							<0.1		
1/16/2017			0.03 (J)	0.1 (J)					
2/22/2017	0.09 (J)								
3/1/2017						0.2 (J)			
3/2/2017		0.09 (J)	0.06 (J)		0.48				
3/3/2017				0.11 (J)					
3/6/2017							0.05 (J)		
3/7/2017								0.09 (J)	0.03 (J)
3/8/2017									
4/26/2017					0.48	0.08 (J)			
4/27/2017		0.04 (J)	0.01 (J)						
4/28/2017				0.06 (J)					
5/1/2017							<0.1	0.04 (J)	
5/2/2017									<0.1
5/8/2017	0.05 (J)								
5/26/2017				0.09 (J)					
6/27/2017		0.06 (J)	0.06 (J)					0.09 (J)	<0.1
6/28/2017				0.11 (J)	0.47	0.12 (J)			
6/29/2017							0.02 (J)		
6/30/2017									
7/17/2017	0.14 (J)								
10/3/2017		0.07 (J)	<0.1	0.12 (J)				0.05 (J)	<0.1
10/4/2017					0.47	0.1 (J)			
10/5/2017							<0.1		
10/16/2017	0.12 (J)								
2/19/2018	<0.3								
3/27/2018			<0.1						
3/28/2018				0.31	0.56	<0.1			
3/29/2018		<0.3					<0.1	<0.1	<0.1
6/5/2018		0.055 (J)							
6/6/2018			<0.1					0.15 (J)	
6/7/2018				0.11 (J)	0.48		<0.1		<0.1
6/8/2018						0.2 (J)			
8/6/2018	0.087 (J)								
9/26/2018							<0.1	<0.1	<0.1
10/1/2018		<0.3	<0.1	<0.3	0.44	<0.1			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
2/25/2019	0.14 (J)								
2/26/2019									
2/27/2019		0.052 (J)	<0.1	0.12 (J)	0.53	0.13 (J)			
3/4/2019							<0.1	0.19 (J)	<0.1
3/28/2019		0.036 (J)	<0.1						
3/29/2019				0.13 (J)					
4/1/2019					0.45	0.1 (J)			
4/3/2019							<0.1	0.047 (J)	<0.1
6/12/2019	0.12 (J)								
8/19/2019	<0.3								
9/24/2019		0.063 (J)	<0.1	0.081 (J)				0.05 (J)	<0.1
9/25/2019					0.46	0.1 (J)	<0.1		
10/8/2019	0.052 (J)								
10/10/2019								0.16 (J)	1.1
2/10/2020		0.061 (J)	<0.1						
2/11/2020				0.075 (J)		0.094 (J)			
2/12/2020					0.4		<0.1	<0.1	<0.1
3/17/2020	0.053 (J)								
3/18/2020			<0.1						
3/19/2020		0.064 (J)		0.093 (J)	0.51	0.11 (J)			
3/24/2020								<0.1	<0.1
3/25/2020							<0.1		
8/26/2020	0.068 (J)								
9/22/2020	0.058 (J)						<0.1	0.056 (J)	<0.1
9/23/2020		0.058 (J)	<0.1	0.08 (J)	0.47	0.098 (J)			
9/25/2020									
2/8/2021								0.055 (J)	<0.1
2/9/2021							<0.1		
2/10/2021				0.094 (J)	0.43	<0.1			
2/12/2021		0.068 (J)	<0.1						
3/2/2021	0.073 (J)							<0.1	<0.1
3/3/2021		0.078 (J)	<0.1	0.085 (J)	0.44	0.1	<0.1		
8/19/2021		0.074 (J)	<0.1		0.47				
8/20/2021	0.06 (J)								
8/26/2021							<0.1	0.061 (J)	<0.1
8/27/2021				0.12		0.12			
2/8/2022	0.064 (J)								
2/9/2022		0.057 (J)	<0.1	0.094 (J)	0.43	0.097 (J)			
2/10/2022								0.055 (J)	<0.1
2/11/2022							<0.1		
8/30/2022	0.086 (J)	0.093 (J)		0.12				0.085 (J)	<0.1
8/31/2022			0.065 (J)		0.42	0.13	0.061 (J)		
2/7/2023	0.095 (J)	0.093 (J)	0.071 (J)	0.12				0.082 (J)	
2/8/2023					0.56	0.16			
2/9/2023							0.067 (J)		<0.1
8/15/2023	0.065 (J)	0.057 (J)	<0.1	0.081 (J)	0.42		<0.1	<0.1	<0.1
8/16/2023						0.11			
2/20/2024	0.094 (J)	0.086 (J)	<0.1	0.1	0.45	0.12	0.059 (J)	0.076 (J)	<0.1
2/23/2024									
8/20/2024		0.066 (J)	<0.1	0.085 (J)	0.45	0.12	<0.1	0.058 (J)	<0.1
2/25/2025		0.094 (J)	0.06 (J)	0.12	0.45	0.14	0.061 (J)	0.082 (J)	<0.1

Time Series

Constituent: Fluoride (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (bg)
6/1/2016	
6/2/2016	<0.1
7/25/2016	
7/26/2016	0.02 (J)
8/31/2016	
9/13/2016	
9/14/2016	
9/15/2016	<0.1
11/1/2016	
11/2/2016	0.04 (J)
11/4/2016	
11/28/2016	
12/15/2016	
1/10/2017	<0.1
1/11/2017	
1/12/2017	
1/13/2017	
1/16/2017	
2/22/2017	
3/1/2017	
3/2/2017	
3/3/2017	
3/6/2017	
3/7/2017	
3/8/2017	0.04 (J)
4/26/2017	<0.1
4/27/2017	
4/28/2017	
5/1/2017	
5/2/2017	
5/8/2017	
5/26/2017	
6/27/2017	
6/28/2017	
6/29/2017	
6/30/2017	<0.1
7/17/2017	
10/3/2017	
10/4/2017	
10/5/2017	<0.1
10/16/2017	
2/19/2018	
3/27/2018	<0.1
3/28/2018	
3/29/2018	
6/5/2018	
6/6/2018	
6/7/2018	
6/8/2018	<0.1
8/6/2018	
9/26/2018	
10/1/2018	<0.1

Time Series

Constituent: Fluoride (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (bg)
2/25/2019	
2/26/2019	<0.1
2/27/2019	
3/4/2019	
3/28/2019	
3/29/2019	<0.1
4/1/2019	
4/3/2019	
6/12/2019	
8/19/2019	
9/24/2019	
9/25/2019	<0.1
10/8/2019	
10/10/2019	
2/10/2020	
2/11/2020	
2/12/2020	<0.1
3/17/2020	
3/18/2020	<0.1
3/19/2020	
3/24/2020	
3/25/2020	
8/26/2020	
9/22/2020	
9/23/2020	
9/25/2020	<0.1
2/8/2021	
2/9/2021	
2/10/2021	<0.1
2/12/2021	
3/2/2021	<0.1
3/3/2021	
8/19/2021	<0.1
8/20/2021	
8/26/2021	
8/27/2021	
2/8/2022	
2/9/2022	
2/10/2022	<0.1
2/11/2022	
8/30/2022	
8/31/2022	0.053 (J)
2/7/2023	
2/8/2023	0.059 (J)
2/9/2023	
8/15/2023	<0.1
8/16/2023	
2/20/2024	
2/23/2024	<0.1
8/20/2024	<0.1
2/25/2025	0.052 (J)

Time Series

Constituent: Fluoride (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)
6/2/2016						<0.1			
6/6/2016		<0.1	<0.1						
6/7/2016	<0.1			<0.1	<0.3				
7/25/2016						0.06 (J)			
7/27/2016	<0.1	<0.1	<0.1	<0.1					
7/28/2016					0.02 (J)				
8/30/2016									0.09 (J)
9/16/2016	<0.1		<0.1						
9/19/2016		<0.1		<0.1	0.02 (J)	<0.1			
11/1/2016						0.07 (J)			
11/2/2016				<0.1					
11/3/2016	<0.1	<0.1	<0.1		0.07 (J)				
11/14/2016									0.18 (J)
1/11/2017	<0.1	<0.1	<0.1						
1/13/2017				<0.1	<0.3				
1/16/2017						<0.1			
2/21/2017						0.05 (J)			
2/24/2017									0.05 (J)
3/1/2017		0.03 (J)	0.03 (J)						
3/2/2017	0.04 (J)								
3/6/2017				0.04 (J)	0.09 (J)				
4/26/2017		<0.1	<0.1	<0.1	0.04 (J)	<0.1			
5/2/2017	<0.1								
5/8/2017									0.03 (J)
6/28/2017		<0.1	<0.1						
6/29/2017	0.02 (J)			0.03 (J)	0.05 (J)				
6/30/2017						0.01 (J)			
7/11/2017									0.07 (J)
10/3/2017					0.08 (J)				
10/4/2017	<0.1		<0.1	<0.1		<0.1			
10/5/2017		<0.1							
10/10/2017									<0.1
10/11/2017							<0.1		
10/12/2017								<0.1	
11/20/2017							<0.1	<0.1	
1/10/2018								<0.1	
1/11/2018							<0.1		
1/12/2018									
2/19/2018								<0.1	
2/20/2018							<0.1		
3/27/2018						<0.1			
3/28/2018	<0.1	<0.1	<0.1						
3/29/2018				<0.1	<0.3				
4/2/2018									<0.1
4/3/2018							<0.1	<0.1	
6/5/2018					0.13 (J)				
6/6/2018				<0.1					
6/7/2018		<0.1							
6/11/2018	<0.1		<0.1			<0.1			
6/28/2018							<0.1	<0.1	
8/7/2018							0.048 (J)	<0.1	
9/19/2018									<0.1

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)
9/24/2018							<0.1	<0.1	
9/25/2018	<0.1	<0.1	<0.1	<0.1	0.029 (J)				
10/2/2018						<0.1			
2/26/2019						<0.1			
3/5/2019	<0.1		<0.1	<0.1	0.32				
3/6/2019		<0.1							
3/26/2019								<0.1	
3/27/2019							<0.1		0.081 (J)
4/1/2019						<0.1			
4/2/2019	<0.1				0.12 (J)				
4/3/2019		<0.1	<0.1	<0.1					
8/20/2019									<0.1
8/21/2019							<0.1	<0.1	
8/22/2019									
9/24/2019					0.15 (J)				
9/25/2019	<0.1			<0.1		<0.1			
9/26/2019		<0.1	<0.1						
10/8/2019									0.034 (J)
10/9/2019							<0.1	<0.1	
10/10/2019	<0.1			0.099 (J)	0.11 (J)				
2/11/2020	<0.1	<0.1	<0.1						
2/12/2020				<0.1	0.1 (J)	<0.1	<0.1	<0.1	
2/14/2020									
3/17/2020									<0.1
3/19/2020						<0.1			
3/24/2020	<0.1	<0.1	<0.1	<0.1	0.081 (J)			<0.1	
3/25/2020							<0.1		
8/27/2020									<0.1
9/22/2020									<0.1
9/23/2020	<0.1	<0.1	<0.1						
9/24/2020				<0.1	0.079 (J)	<0.1	<0.1	<0.1	
9/25/2020									
2/9/2021	<0.1	<0.1	<0.1	<0.1	0.092 (J)				
2/10/2021							<0.1	<0.1	
2/11/2021						<0.1			
3/1/2021						<0.1			<0.1
3/3/2021	<0.1	<0.1	<0.1	<0.1					
3/4/2021					0.091 (J)		<0.1	<0.1	
8/19/2021						<0.1			<0.1
8/26/2021			<0.1				0.063 (J)		
8/27/2021	<0.1	<0.1		<0.1					
9/1/2021					0.11				
9/3/2021								<0.1	
2/8/2022							0.052 (J)	<0.1	<0.1
2/9/2022	<0.1	<0.1	<0.1	<0.1	0.1				
2/10/2022									
2/11/2022						<0.1			
8/30/2022	<0.1	<0.1	<0.1		0.1				
8/31/2022				<0.1		0.06 (J)	0.065 (J)	0.05 (J)	0.065 (J)
9/1/2022									
2/7/2023	<0.1	<0.1	<0.1	<0.1	0.1		0.076 (J)		
2/8/2023						0.064 (J)		<0.1	0.077 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)
8/15/2023	<0.1	<0.1	<0.1	<0.1	0.061 (J)		<0.1	<0.1	<0.1
8/16/2023						<0.1			
2/20/2024	<0.1	<0.1		<0.1	0.083 (J)	0.051 (J)	0.063 (J)	<0.1	0.073 (J)
2/22/2024									
2/23/2024			<0.1						
8/20/2024	<0.1	<0.1		<0.1	0.062 (J)	<0.1			<0.1
8/21/2024			0.051 (J)				0.083 (J)	0.06 (J)	
8/23/2024									
2/25/2025	<0.1	<0.1	<0.1	<0.1	0.088 (J)	0.062 (J)	0.078 (J)	0.053 (J)	0.069 (J)
2/26/2025									

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38
6/2/2016	
6/6/2016	
6/7/2016	
7/25/2016	
7/27/2016	
7/28/2016	
8/30/2016	
9/16/2016	
9/19/2016	
11/1/2016	
11/2/2016	
11/3/2016	
11/14/2016	
1/11/2017	
1/13/2017	
1/16/2017	
2/21/2017	
2/24/2017	
3/1/2017	
3/2/2017	
3/6/2017	
4/26/2017	
5/2/2017	
5/8/2017	
6/28/2017	
6/29/2017	
6/30/2017	
7/11/2017	
10/3/2017	
10/4/2017	
10/5/2017	
10/10/2017	
10/11/2017	
10/12/2017	<0.1
11/20/2017	0.2 (J)
1/10/2018	
1/11/2018	
1/12/2018	0.21 (J)
2/19/2018	
2/20/2018	<0.1
3/27/2018	
3/28/2018	
3/29/2018	
4/2/2018	
4/3/2018	0.41
6/5/2018	
6/6/2018	
6/7/2018	
6/11/2018	
6/28/2018	0.43
8/7/2018	<0.1
9/19/2018	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38
9/24/2018	0.034 (J)
9/25/2018	
10/2/2018	
2/26/2019	
3/5/2019	
3/6/2019	
3/26/2019	
3/27/2019	0.24 (J)
4/1/2019	
4/2/2019	
4/3/2019	
8/20/2019	
8/21/2019	
8/22/2019	<0.1
9/24/2019	
9/25/2019	
9/26/2019	
10/8/2019	
10/9/2019	<0.1
10/10/2019	
2/11/2020	
2/12/2020	
2/14/2020	<0.1
3/17/2020	
3/19/2020	
3/24/2020	
3/25/2020	<0.1
8/27/2020	
9/22/2020	
9/23/2020	
9/24/2020	
9/25/2020	<0.1
2/9/2021	<0.1
2/10/2021	
2/11/2021	
3/1/2021	
3/3/2021	
3/4/2021	<0.1
8/19/2021	
8/26/2021	<0.1
8/27/2021	
9/1/2021	
9/3/2021	
2/8/2022	
2/9/2022	
2/10/2022	<0.1
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	<0.1
2/7/2023	
2/8/2023	<0.1

Time Series

Constituent: Fluoride (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38
8/15/2023	
8/16/2023	<0.1
2/20/2024	
2/22/2024	<0.1
2/23/2024	
8/20/2024	
8/21/2024	
8/23/2024	<0.1
2/25/2025	
2/26/2025	<0.1

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-41	YGWC-23S	YGWC-24SB	YGWC-36A	YGWC-42	YGWC-43	YGWC-49	YGWC-50	YAMW-1
6/7/2016		<0.1							
6/8/2016			<0.1						
7/28/2016		0.03 (J)							
8/1/2016			<0.1						
8/30/2016					0.02 (J)				
8/31/2016						0.12 (J)			
9/1/2016							0.09 (J)		
9/2/2016				0.05 (J)					
9/20/2016		<0.1	<0.1						
11/8/2016		<0.1	0.02 (J)						
11/14/2016				0.18 (J)					
11/15/2016							0.16 (J)		
11/16/2016					0.07 (J)	0.2 (J)			
1/16/2017		<0.1							
1/17/2017			<0.1						
2/24/2017						0.21 (J)			
2/27/2017					0.06 (J)		0.06 (J)		
2/28/2017				0.09 (J)					
3/8/2017			0.03 (J)						
3/9/2017		0.03 (J)							
5/2/2017		<0.1	<0.1						
5/9/2017				0.009 (J)			0.05 (J)		
5/10/2017					<0.1	0.04 (J)			
7/7/2017			<0.1						
7/10/2017		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					
10/5/2017			<0.1						
10/6/2017				<0.1					
10/11/2017		<0.1		0.14 (J)			0.14 (J)		
10/12/2017	<0.1				<0.1	0.1 (J)			
11/21/2017	<0.1								
1/11/2018	<0.1								
2/19/2018	<0.1								
3/30/2018		<0.1	<0.1	<0.1					
4/3/2018	<0.1								
4/4/2018					<0.1	<0.1	<0.1		
6/12/2018		<0.1	<0.1						
6/13/2018				<0.1					
6/27/2018	<0.1								
8/7/2018	0.11 (J)								
9/20/2018					0.041 (J)	<0.1	<0.1		
9/24/2018	<0.1								
9/26/2018			<0.1	<0.1					
9/27/2018		<0.1							
10/16/2018									<0.1
3/5/2019			<0.1						
3/6/2019		<0.1		<0.1					
3/27/2019					<0.1				
3/28/2019	0.1 (J)					0.078 (J)	<0.1		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-41	YGWC-23S	YGWC-24SB	YGWC-36A	YGWC-42	YGWC-43	YGWC-49	YGWC-50	YAMW-1
4/4/2019		0.049 (J)	0.033 (J)	0.043 (J)					
8/21/2019						0.062 (J)			
8/22/2019	<0.1				<0.1				
9/26/2019			0.098 (J)	0.094 (J)			0.09 (J)		<0.1
9/27/2019		0.12 (J)							
10/9/2019	<0.1				<0.1	<0.1			
10/10/2019		0.11 (J)					0.09 (J)		
2/13/2020			<0.1						
2/14/2020	<0.1			<0.1	<0.1				
2/17/2020		<0.1				0.15 (J)	<0.1		
3/25/2020	<0.1			<0.1	<0.1	0.073 (J)	<0.1		<0.1
3/26/2020		<0.1	<0.1						
9/23/2020			<0.1						
9/24/2020		<0.1			<0.1		<0.1		<0.1
9/25/2020	<0.1					<0.1			
10/7/2020				<0.1					
2/9/2021		<0.1	<0.1			0.058 (J)	<0.1		<0.1
2/10/2021	<0.1			<0.1	<0.1				
3/3/2021			<0.1						<0.1
3/4/2021	<0.1	<0.1		<0.1	<0.1	0.063 (J)	<0.1		
8/25/2021		<0.1			<0.1				
8/26/2021	<0.1								
9/1/2021			<0.1				<0.1		<0.1
9/3/2021				<0.1					
9/27/2021						0.1			
2/8/2022	<0.1					0.066 (J)	<0.1		
2/10/2022		<0.1	<0.1		<0.1				<0.1
2/11/2022				<0.1					
8/31/2022							<0.1		<0.1
9/1/2022	<0.1	0.057 (J)		<0.1	0.053 (J)	0.091 (J)			
2/8/2023	<0.1	<0.1			0.08 (J)	0.11			
2/9/2023				<0.1			<0.1		<0.1
2/10/2023			0.051 (J)						
8/16/2023	<0.1	<0.1	<0.1	<0.1	<0.1	0.062 (J)	<0.1		<0.1
8/17/2023								0.12	
12/20/2023								0.14	
2/21/2024		<0.1					<0.1		
2/22/2024	<0.1				<0.1	0.091 (J)		0.14	
2/23/2024			<0.1	<0.1					<0.1
6/10/2024								0.11	
8/21/2024		<0.1							
8/22/2024			<0.1	<0.1	<0.1	0.05 (J)	<0.1		<0.1
8/23/2024	<0.1							0.085 (J)	
11/26/2024								0.15	
2/26/2025	<0.1			<0.1	<0.1		<0.1	0.077 (J)	<0.1
2/27/2025		<0.1				<0.1			
3/17/2025			<0.1						
5/21/2025								0.07 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-2
6/7/2016	
6/8/2016	
7/28/2016	
8/1/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/20/2016	
11/8/2016	
11/14/2016	
11/15/2016	
11/16/2016	
1/16/2017	
1/17/2017	
2/24/2017	
2/27/2017	
2/28/2017	
3/8/2017	
3/9/2017	
5/2/2017	
5/9/2017	
5/10/2017	
7/7/2017	
7/10/2017	
7/11/2017	
7/13/2017	
9/22/2017	
9/29/2017	
10/5/2017	
10/6/2017	
10/11/2017	
10/12/2017	
11/21/2017	
1/11/2018	
2/19/2018	
3/30/2018	
4/3/2018	
4/4/2018	
6/12/2018	
6/13/2018	
6/27/2018	
8/7/2018	
9/20/2018	
9/24/2018	
9/26/2018	
9/27/2018	
10/16/2018	
3/5/2019	
3/6/2019	
3/27/2019	
3/28/2019	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-2
4/4/2019	
8/21/2019	
8/22/2019	
9/26/2019	
9/27/2019	
10/9/2019	
10/10/2019	
2/13/2020	
2/14/2020	
2/17/2020	
3/25/2020	
3/26/2020	
9/23/2020	<0.1
9/24/2020	
9/25/2020	
10/7/2020	
2/9/2021	<0.1
2/10/2021	
3/3/2021	<0.1
3/4/2021	
8/25/2021	
8/26/2021	
9/1/2021	<0.1
9/3/2021	
9/27/2021	
2/8/2022	
2/10/2022	<0.1
2/11/2022	
8/31/2022	
9/1/2022	0.063 (J)
2/8/2023	0.061 (J)
2/9/2023	
2/10/2023	
8/16/2023	
8/17/2023	<0.1
12/20/2023	
2/21/2024	
2/22/2024	0.05 (J)
2/23/2024	
6/10/2024	
8/21/2024	<0.1
8/22/2024	
8/23/2024	
11/26/2024	
2/26/2025	<0.1
2/27/2025	
3/17/2025	
5/21/2025	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-3	YAMW-4	YAMW-5	PZ-35	PZ-37D	PZ-37	PZ-51	PZ-52D	PZ-54D
10/12/2017						<0.1			
11/21/2017						0.26 (J)			
1/11/2018						<0.1			
2/20/2018						0.45			
4/3/2018						0.31			
6/29/2018						<0.1			
8/6/2018						0.23 (J)			
9/24/2018						<0.1			
10/16/2018				<0.1					
9/26/2019				<0.1					
3/25/2020				<0.1					
9/23/2020		<0.1							
9/24/2020			<0.1	<0.1					
9/25/2020						<0.1			
2/9/2021		0.14	<0.1			<0.1			
2/10/2021				<0.1					
3/3/2021		0.14							
3/4/2021			<0.1	<0.1		<0.1			
5/13/2021					0.12				
8/25/2021		<0.1				<0.1			
8/26/2021			<0.1						
9/1/2021				<0.1					
9/3/2021					0.15				
11/4/2021								0.1	
2/10/2022	<0.1	<0.1	<0.1	<0.1		<0.1	0.1		
2/11/2022					0.17			0.1	
4/4/2022						<0.1			
4/7/2022						<0.1			
8/31/2022				<0.1					
9/1/2022	0.091 (J)	0.078 (J)	0.055 (J)		0.35	<0.1	0.13	0.11	
2/8/2023		0.079 (J)	0.05 (J)		0.2	<0.1		0.07 (J)	
2/9/2023	0.079 (J)			<0.1			0.13		
8/16/2023	0.081 (J)	<0.1	<0.1	<0.1	0.23		0.097 (J)		
8/17/2023						<0.1		0.059 (J)	
2/21/2024	0.066 (J)				0.21	<0.1		0.053 (J)	
2/22/2024		0.061 (J)	<0.1				0.14		
2/23/2024				<0.1					
6/12/2024									0.39
8/21/2024					0.25	<0.1		<0.1	
8/22/2024	0.075 (J)			<0.1			0.17		
8/23/2024		0.071 (J)	0.05 (J)						
11/7/2024									0.09 (J)
2/25/2025				0.055 (J)					
2/26/2025	<0.1	<0.1							
2/27/2025			0.05 (J)		0.2	0.064 (J)	0.11	0.064 (J)	0.1

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	PZ-55
10/12/2017	
11/21/2017	
1/11/2018	
2/20/2018	
4/3/2018	
6/29/2018	
8/6/2018	
9/24/2018	
10/16/2018	
9/26/2019	
3/25/2020	
9/23/2020	
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	
3/3/2021	
3/4/2021	
5/13/2021	
8/25/2021	
8/26/2021	
9/1/2021	
9/3/2021	
11/4/2021	
2/10/2022	
2/11/2022	
4/4/2022	
4/7/2022	
8/31/2022	
9/1/2022	
2/8/2023	
2/9/2023	
8/16/2023	
8/17/2023	
2/21/2024	
2/22/2024	0.065 (J)
2/23/2024	
6/12/2024	
8/21/2024	<0.1
8/22/2024	
8/23/2024	
11/7/2024	
2/25/2025	
2/26/2025	
2/27/2025	<0.1

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
5/1/2007	<0.001								
9/12/2007	<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			<0.001			
6/2/2016					0.00056 (J)		<0.001	<0.001	<0.001
7/21/2016	<0.001								
7/25/2016			<0.001			<0.001			
7/26/2016		<0.001			0.0001 (J)		<0.001	<0.001	<0.001
8/31/2016	<0.001								
9/13/2016		0.0001 (J)	<0.001						
9/14/2016				<0.001		<0.001	<0.001	<0.001	<0.001
9/15/2016					0.0002 (J)				
11/1/2016		<0.001			<0.001	<0.001			
11/2/2016							<0.001	<0.001	
11/4/2016			<0.001	<0.001					<0.001
11/28/2016	<0.001								
12/15/2016				<0.001					
1/10/2017									
1/11/2017		<0.001			<0.001	<0.001			
1/12/2017								<0.001	<0.001
1/13/2017							<0.001		
1/16/2017			<0.001	<0.001					
2/22/2017	<0.001								
3/1/2017						<0.001			
3/2/2017		0.0001 (J)	<0.001		0.0002 (J)				
3/3/2017				<0.001					
3/6/2017							<0.001		
3/7/2017								0.0001 (J)	7E-05 (J)
3/8/2017									
4/26/2017					<0.001	<0.001			
4/27/2017		<0.001	<0.001						
4/28/2017				<0.001					
5/1/2017							<0.001	<0.001	
5/2/2017									<0.001
5/8/2017	<0.001								
5/26/2017				<0.001					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/27/2017		<0.001	<0.001					<0.001	<0.001
6/28/2017				<0.001	<0.001	<0.001			
6/29/2017							<0.001		
6/30/2017									
7/17/2017	<0.001								
10/16/2017	<0.001								
2/19/2018	<0.001								
3/27/2018			<0.001						
3/28/2018				<0.001	<0.001	<0.001			
3/29/2018		<0.001					<0.001	<0.001	<0.001
8/6/2018	<0.001								
2/25/2019	<0.001								
2/26/2019									
2/27/2019		<0.001	<0.001	<0.001	<0.001	<0.001			
3/4/2019							<0.001	<0.001	<0.001
4/3/2019							<0.001	<0.001	<0.001
6/12/2019	<0.001								
8/19/2019	<0.001								
9/24/2019								<0.001	9E-05 (J)
9/25/2019							<0.001		
10/8/2019	<0.001								
2/10/2020		4.9E-05 (J)	<0.001						
2/11/2020				<0.001		<0.001			
2/12/2020					<0.001		<0.001	<0.001	<0.001
3/17/2020	<0.001								
3/18/2020			<0.001						
3/19/2020		0.00012 (J)		<0.001	0.00017 (J)	<0.001			
3/24/2020								5.4E-05 (J)	6.8E-05 (J)
3/25/2020							<0.001		
8/26/2020	<0.001								
9/22/2020	0.0001 (J)						<0.001	4.5E-05 (J)	4.2E-05 (J)
9/23/2020		<0.001	0.00021 (J)	0.0011 (J)	<0.001	0.00015 (J)			
9/25/2020									
2/8/2021								0.00013 (J)	3.7E-05 (J)
2/9/2021							<0.001		
2/10/2021				0.00015 (J)	<0.001	<0.001			
2/12/2021		4.4E-05 (J)	0.00038 (J)						
3/2/2021	<0.001							5.1E-05 (J)	9.2E-05 (J)
3/3/2021		5.6E-05 (J)	<0.001	<0.001	<0.001	<0.001	<0.001		
8/19/2021		<0.001	<0.001		<0.001				
8/20/2021	<0.001								
8/26/2021							<0.001	<0.001	<0.001
8/27/2021				<0.001		<0.001			
2/8/2022	<0.001								
2/9/2022		<0.001	<0.001	<0.001	<0.001	<0.001			
2/10/2022								<0.001	<0.001
2/11/2022							<0.001		
8/30/2022	<0.001	<0.001		<0.001				<0.001	<0.001
8/31/2022			<0.001		<0.001	<0.001	<0.001		
2/7/2023	<0.001	<0.001	<0.001	<0.001				<0.001	
2/8/2023					<0.001	<0.001			
2/9/2023							<0.001		<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
8/15/2023	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001
8/16/2023						<0.001			
2/20/2024	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/23/2024									
8/20/2024		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/25/2025		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (bg)
5/1/2007	
9/12/2007	
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	
6/2/2016	<0.001
7/21/2016	
7/25/2016	
7/26/2016	<0.001
8/31/2016	
9/13/2016	
9/14/2016	
9/15/2016	<0.001
11/1/2016	
11/2/2016	<0.001
11/4/2016	
11/28/2016	
12/15/2016	
1/10/2017	<0.001
1/11/2017	
1/12/2017	
1/13/2017	
1/16/2017	
2/22/2017	
3/1/2017	
3/2/2017	
3/3/2017	
3/6/2017	
3/7/2017	
3/8/2017	0.0001 (J)
4/26/2017	<0.001
4/27/2017	
4/28/2017	
5/1/2017	
5/2/2017	
5/8/2017	
5/26/2017	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (bg)
6/27/2017	
6/28/2017	
6/29/2017	
6/30/2017	<0.001
7/17/2017	
10/16/2017	
2/19/2018	
3/27/2018	<0.001
3/28/2018	
3/29/2018	
8/6/2018	
2/25/2019	
2/26/2019	<0.001
2/27/2019	
3/4/2019	
4/3/2019	
6/12/2019	
8/19/2019	
9/24/2019	
9/25/2019	
10/8/2019	
2/10/2020	
2/11/2020	
2/12/2020	<0.001
3/17/2020	
3/18/2020	<0.001
3/19/2020	
3/24/2020	
3/25/2020	
8/26/2020	
9/22/2020	
9/23/2020	
9/25/2020	<0.001
2/8/2021	
2/9/2021	
2/10/2021	4.8E-05 (J)
2/12/2021	
3/2/2021	<0.001
3/3/2021	
8/19/2021	<0.001
8/20/2021	
8/26/2021	
8/27/2021	
2/8/2022	
2/9/2022	
2/10/2022	<0.001
2/11/2022	
8/30/2022	
8/31/2022	<0.001
2/7/2023	
2/8/2023	<0.001
2/9/2023	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (bg)
8/15/2023	<0.001
8/16/2023	
2/20/2024	
2/23/2024	<0.001
8/20/2024	<0.001
2/25/2025	<0.001

Time Series

Constituent: Lead (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)
6/2/2016						<0.001			
6/6/2016		<0.001	<0.001						
6/7/2016	<0.001			<0.001	<0.001				
7/25/2016						<0.001			
7/27/2016	<0.001	<0.001	<0.001	<0.001					
7/28/2016					<0.001				
8/30/2016									<0.001
9/16/2016	<0.001		<0.001						
9/19/2016		<0.001		<0.001	<0.001	<0.001			
11/1/2016						<0.001			
11/2/2016				0.0013 (J)					
11/3/2016	<0.001	<0.001	<0.001		<0.001				
11/14/2016									<0.001
1/11/2017	<0.001	<0.001	<0.001						
1/13/2017				<0.001	<0.001				
1/16/2017						<0.001			
2/21/2017						<0.001			
2/24/2017									<0.001
3/1/2017		<0.001	0.0001 (J)						
3/2/2017	8E-05 (J)								
3/6/2017				<0.001	<0.001				
4/26/2017		<0.001	0.0001 (J)	<0.001	<0.001	<0.001			
5/2/2017	<0.001								
5/8/2017									<0.001
6/28/2017		<0.001	0.0001 (J)						
6/29/2017	8E-05 (J)			<0.001	<0.001				
6/30/2017						<0.001			
7/11/2017									<0.001
10/10/2017									<0.001
10/11/2017							0.0001 (J)		
10/12/2017								9E-05 (J)	
11/20/2017							<0.001	<0.001	
1/10/2018								<0.001	
1/11/2018							0.0002 (J)		
1/12/2018									
2/19/2018								<0.001	
2/20/2018							<0.001		
3/27/2018						<0.001			
3/28/2018	<0.001	<0.001	<0.001						
3/29/2018				<0.001	<0.001				
4/2/2018									<0.001
4/3/2018							<0.001	<0.001	
6/28/2018							<0.001	<0.001	
8/7/2018							<0.001	<0.001	
9/19/2018									<0.001
9/24/2018							<0.001	<0.001	
2/26/2019						<0.001			
3/5/2019	<0.001		<0.001	<0.001	<0.001				
3/6/2019		<0.001							
4/2/2019	<0.001				<0.001				
4/3/2019		<0.001	<0.001	<0.001					
8/20/2019									<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)
8/21/2019							<0.001	<0.001	
8/22/2019									
9/24/2019					<0.001				
9/25/2019	<0.001			<0.001					
9/26/2019		<0.001	<0.001						
10/9/2019							<0.001	<0.001	
2/11/2020	<0.001	<0.001	<0.001						
2/12/2020				<0.001	<0.001	<0.001	<0.001	<0.001	
2/14/2020									
3/19/2020						<0.001			
3/24/2020	6.4E-05 (J)	7.1E-05 (J)	5.4E-05 (J)	0.00011 (J)	<0.001			<0.001	
3/25/2020							5.1E-05 (J)		
8/27/2020									<0.001
9/22/2020									<0.001
9/23/2020	4.1E-05 (J)	6E-05 (J)	9.7E-05 (J)						
9/24/2020				9.2E-05 (J)	4.6E-05 (J)	<0.001	<0.001	3.8E-05 (J)	
9/25/2020									
2/9/2021	<0.001	5E-05 (J)	9.4E-05 (J)	6.3E-05 (J)	<0.001				
2/10/2021							<0.001	<0.001	
2/11/2021						4.6E-05 (J)			
3/1/2021						<0.001			<0.001
3/3/2021	<0.001	<0.001	7.6E-05 (J)	4.5E-05 (J)					
3/4/2021					<0.001		<0.001	<0.001	
8/19/2021						<0.001			<0.001
8/26/2021			<0.001				<0.001		
8/27/2021	<0.001	<0.001		<0.001					
9/1/2021					<0.001				
9/3/2021								<0.001	
2/8/2022							<0.001	<0.001	<0.001
2/9/2022	<0.001	<0.001	<0.001	<0.001	<0.001				
2/10/2022									
2/11/2022						<0.001			
8/30/2022	<0.001	<0.001	<0.001		<0.001				
8/31/2022				<0.001		<0.001	<0.001	<0.001	<0.001
9/1/2022									
2/7/2023	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001		
2/8/2023						<0.001		<0.001	<0.001
8/15/2023	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001
8/16/2023						<0.001			
2/20/2024	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/22/2024									
2/23/2024			<0.001						
8/20/2024	<0.001	<0.001		<0.001	<0.001	<0.001			<0.001
8/21/2024			<0.001				<0.001	<0.001	
8/23/2024									
2/25/2025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/26/2025									

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38
6/2/2016	
6/6/2016	
6/7/2016	
7/25/2016	
7/27/2016	
7/28/2016	
8/30/2016	
9/16/2016	
9/19/2016	
11/1/2016	
11/2/2016	
11/3/2016	
11/14/2016	
1/11/2017	
1/13/2017	
1/16/2017	
2/21/2017	
2/24/2017	
3/1/2017	
3/2/2017	
3/6/2017	
4/26/2017	
5/2/2017	
5/8/2017	
6/28/2017	
6/29/2017	
6/30/2017	
7/11/2017	
10/10/2017	
10/11/2017	
10/12/2017	0.0001 (J)
11/20/2017	0.0001 (J)
1/10/2018	
1/11/2018	
1/12/2018	0.0001 (J)
2/19/2018	
2/20/2018	<0.001
3/27/2018	
3/28/2018	
3/29/2018	
4/2/2018	
4/3/2018	<0.001
6/28/2018	<0.001
8/7/2018	<0.001
9/19/2018	
9/24/2018	<0.001
2/26/2019	
3/5/2019	
3/6/2019	
4/2/2019	
4/3/2019	
8/20/2019	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38
8/21/2019	
8/22/2019	<0.001
9/24/2019	
9/25/2019	
9/26/2019	
10/9/2019	<0.001
2/11/2020	
2/12/2020	
2/14/2020	<0.001
3/19/2020	
3/24/2020	
3/25/2020	<0.001
8/27/2020	
9/22/2020	
9/23/2020	
9/24/2020	
9/25/2020	<0.001
2/9/2021	<0.001
2/10/2021	
2/11/2021	
3/1/2021	
3/3/2021	
3/4/2021	<0.001
8/19/2021	
8/26/2021	<0.001
8/27/2021	
9/1/2021	
9/3/2021	
2/8/2022	
2/9/2022	
2/10/2022	<0.001
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	<0.001
2/7/2023	
2/8/2023	<0.001
8/15/2023	
8/16/2023	<0.001
2/20/2024	
2/22/2024	<0.001
2/23/2024	
8/20/2024	
8/21/2024	
8/23/2024	<0.001
2/25/2025	
2/26/2025	<0.001

Time Series

Constituent: Lead (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-41	YGWC-23S	YGWC-24SB	YGWC-36A	YGWC-42	YGWC-43	YGWC-49	YGWC-50	YAMW-1
6/7/2016		0.00044 (J)							
6/8/2016			<0.001						
7/28/2016		<0.001							
8/1/2016			<0.001						
8/30/2016					<0.001				
8/31/2016						<0.001			
9/1/2016							<0.001		
9/2/2016				0.0017 (J)					
9/20/2016		<0.001	<0.001						
11/8/2016		<0.001	<0.001						
11/14/2016				0.0002 (J)					
11/15/2016							<0.001		
11/16/2016					0.0002 (J)	<0.001			
1/16/2017		<0.001							
1/17/2017			<0.001						
2/24/2017						<0.001			
2/27/2017					<0.001		<0.001		
2/28/2017				0.0003 (J)					
3/8/2017			<0.001						
3/9/2017		<0.001							
5/2/2017		<0.001	<0.001						
5/9/2017				0.0004 (J)			<0.001		
5/10/2017					9E-05 (J)	8E-05 (J)			
7/7/2017			<0.001						
7/10/2017		<0.001							
7/11/2017					<0.001	<0.001			
7/13/2017				0.0004 (J)			<0.001		
9/22/2017				0.0003 (J)					
9/29/2017				0.0002 (J)					
10/6/2017				0.0002 (J)					
10/11/2017							<0.001		
10/12/2017	<0.001				<0.001	<0.001			
11/21/2017	<0.001								
1/11/2018	7E-05 (J)								
2/19/2018	<0.001								
3/30/2018		<0.001	<0.001	<0.001					
4/3/2018	<0.001								
4/4/2018					<0.001	<0.001	<0.001		
6/27/2018	0.0011 (J)								
8/7/2018	<0.001								
9/20/2018					<0.001	<0.001	<0.001		
9/24/2018	<0.001								
3/5/2019			<0.001						
3/6/2019		<0.001		<0.001					
4/4/2019		<0.001	<0.001	0.00037 (J)					
8/21/2019						<0.001			
8/22/2019	6.7E-05 (J)				<0.001				
9/26/2019			<0.001	0.00023 (J)			<0.001		<0.001
9/27/2019		0.00013 (J)							
10/9/2019	0.00012 (J)				<0.001	<0.001			
2/13/2020			<0.001						
2/14/2020	<0.001			0.00016 (J)	<0.001				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-41	YGWC-23S	YGWC-24SB	YGWC-36A	YGWC-42	YGWC-43	YGWC-49	YGWC-50	YAMW-1
2/17/2020		<0.001				<0.001	7.1E-05 (J)		
3/25/2020	<0.001			0.0001 (J)	4.7E-05 (J)	7.5E-05 (J)	5.9E-05 (J)		<0.001
3/26/2020		<0.001	5.3E-05 (J)						
9/23/2020			<0.001						
9/24/2020		4.6E-05			<0.001		<0.001		<0.001
9/25/2020	<0.001					<0.001			
10/7/2020				0.00077 (J)					
2/9/2021		<0.001	0.00036 (J)			<0.001	<0.001		0.00019 (J)
2/10/2021	0.0002 (J)			0.00051 (J)	5.4E-05				
3/3/2021			<0.001						<0.001
3/4/2021	<0.001	0.00021 (J)		0.00025 (J)	<0.001	<0.001	<0.001		
8/25/2021		<0.001			<0.001				
8/26/2021	<0.001								
9/1/2021			<0.001				<0.001		<0.001
9/3/2021				<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				<0.001
2/11/2022				<0.001					
8/31/2022							<0.001		<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						
8/16/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001
8/17/2023								0.0002 (J)	
12/20/2023								0.0003 (J)	
2/21/2024		<0.001					<0.001		
2/22/2024	<0.001				<0.001	<0.001		0.00021 (J)	
2/23/2024			0.00029 (J)	<0.001					<0.001
6/10/2024								0.00042 (J)	
8/21/2024		<0.001							
8/22/2024			<0.001	<0.001	<0.001	<0.001	<0.001		<0.001
8/23/2024	<0.001							0.00023 (J)	
11/26/2024								0.00033 (J)	
2/26/2025	<0.001			<0.001	<0.001		<0.001	<0.001	<0.001
2/27/2025		<0.001				<0.001			
3/17/2025			<0.001						
5/21/2025								<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-2
6/7/2016	
6/8/2016	
7/28/2016	
8/1/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/20/2016	
11/8/2016	
11/14/2016	
11/15/2016	
11/16/2016	
1/16/2017	
1/17/2017	
2/24/2017	
2/27/2017	
2/28/2017	
3/8/2017	
3/9/2017	
5/2/2017	
5/9/2017	
5/10/2017	
7/7/2017	
7/10/2017	
7/11/2017	
7/13/2017	
9/22/2017	
9/29/2017	
10/6/2017	
10/11/2017	
10/12/2017	
11/21/2017	
1/11/2018	
2/19/2018	
3/30/2018	
4/3/2018	
4/4/2018	
6/27/2018	
8/7/2018	
9/20/2018	
9/24/2018	
3/5/2019	
3/6/2019	
4/4/2019	
8/21/2019	
8/22/2019	
9/26/2019	
9/27/2019	
10/9/2019	
2/13/2020	
2/14/2020	

Time Series

Constituent: Lead (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-2
2/17/2020	
3/25/2020	
3/26/2020	
9/23/2020	<0.001
9/24/2020	
9/25/2020	
10/7/2020	
2/9/2021	0.00011 (J)
2/10/2021	
3/3/2021	8E-05 (J)
3/4/2021	
8/25/2021	
8/26/2021	
9/1/2021	<0.001
9/3/2021	
9/27/2021	
2/8/2022	
2/10/2022	<0.001
2/11/2022	
8/31/2022	
9/1/2022	<0.001
2/8/2023	<0.001
2/9/2023	
2/10/2023	
8/16/2023	
8/17/2023	<0.001
12/20/2023	
2/21/2024	
2/22/2024	<0.001
2/23/2024	
6/10/2024	
8/21/2024	<0.001
8/22/2024	
8/23/2024	
11/26/2024	
2/26/2025	<0.001
2/27/2025	
3/17/2025	
5/21/2025	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-3	YAMW-4	YAMW-5	PZ-35	PZ-37D	PZ-37	PZ-51	PZ-52D	PZ-54D
10/12/2017						0.0002 (J)			
11/21/2017						0.0002 (J)			
1/11/2018						0.0001 (J)			
2/20/2018						<0.001			
4/3/2018						<0.001			
6/29/2018						<0.001			
8/6/2018						<0.001			
9/24/2018						<0.001			
9/26/2019				<0.001					
3/25/2020				<0.001					
9/23/2020		0.00028 (J)							
9/24/2020			0.00011 (J)	<0.001					
9/25/2020						8.5E-05 (J)			
2/9/2021		0.00054 (J)	7.3E-05 (J)			8.8E-05 (J)			
2/10/2021				8.7E-05 (J)					
3/3/2021		9.6E-05 (J)							
3/4/2021			4.1E-05 (J)	0.00015 (J)		<0.001			
5/13/2021					4.9E-05 (J)				
8/25/2021		<0.001				<0.001			
8/26/2021			<0.001						
9/1/2021				<0.001					
9/3/2021					<0.001				
11/4/2021								0.001	
2/10/2022	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001		
2/11/2022					<0.001			0.0031	
4/4/2022						<0.001			
4/7/2022						<0.001			
8/31/2022				<0.001					
9/1/2022	<0.001	<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			<0.001		
8/16/2023	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001		
8/17/2023						<0.001		0.0014	
2/21/2024	<0.001				<0.001	<0.001		<0.001	
2/22/2024		<0.001	<0.001				<0.001		
2/23/2024				<0.001					
6/12/2024									0.047
8/21/2024					<0.001	0.0002 (J)		<0.001	
8/22/2024	<0.001			0.0014			0.00019 (J)		
8/23/2024		<0.001	<0.001						
11/7/2024									0.00063 (J)
2/25/2025				0.00039 (J)					
2/26/2025	<0.001	<0.001							
2/27/2025			<0.001		<0.001	<0.001	<0.001	0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	PZ-55
10/12/2017	
11/21/2017	
1/11/2018	
2/20/2018	
4/3/2018	
6/29/2018	
8/6/2018	
9/24/2018	
9/26/2019	
3/25/2020	
9/23/2020	
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	
3/3/2021	
3/4/2021	
5/13/2021	
8/25/2021	
8/26/2021	
9/1/2021	
9/3/2021	
11/4/2021	
2/10/2022	
2/11/2022	
4/4/2022	
4/7/2022	
8/31/2022	
9/1/2022	
2/8/2023	
2/9/2023	
8/16/2023	
8/17/2023	
2/21/2024	
2/22/2024	<0.001
2/23/2024	
6/12/2024	
8/21/2024	<0.001
8/22/2024	
8/23/2024	
11/7/2024	
2/25/2025	
2/26/2025	
2/27/2025	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/1/2016		0.015	<0.03			0.01			
6/2/2016					0.018		0.013	0.0049 (J)	<0.15
7/25/2016			0.002 (J)			0.0132 (J)			
7/26/2016		0.0135 (J)			0.0221 (J)		0.0123 (J)	0.0063 (J)	0.0027 (J)
8/31/2016	<0.15								
9/13/2016		0.0112 (J)	<0.03						
9/14/2016				0.004 (J)		0.012 (J)	0.0137 (J)	0.0058 (J)	0.0029 (J)
9/15/2016					0.0197 (J)				
11/1/2016		0.0163 (J)			0.0194 (J)	0.0115 (J)			
11/2/2016							0.0136 (J)	0.0053 (J)	
11/4/2016			<0.03	<0.03					<0.15
11/28/2016	<0.15								
12/15/2016				0.0026 (J)					
1/10/2017									
1/11/2017		0.0166 (J)			0.0177 (J)	0.0085 (J)			
1/12/2017								0.0054 (J)	0.0032 (J)
1/13/2017							0.0121 (J)		
1/16/2017			0.0023 (J)	0.0023 (J)					
2/22/2017	<0.15								
3/1/2017						0.0114 (J)			
3/2/2017		0.0159 (J)	0.0025 (J)		0.0185 (J)				
3/3/2017				0.0013 (J)					
3/6/2017							0.0143 (J)		
3/7/2017								0.0056 (J)	0.0035 (J)
3/8/2017									
4/26/2017					0.0183 (J)	0.0092 (J)			
4/27/2017		0.0137 (J)	0.0027 (J)						
4/28/2017				0.0031 (J)					
5/1/2017							0.0132 (J)	0.0031 (J)	
5/2/2017									0.0031 (J)
5/8/2017	0.0014 (J)								
5/26/2017				0.0038 (J)					
6/27/2017		0.0094 (J)	0.0024 (J)					0.0018 (J)	0.0029 (J)
6/28/2017				0.0026 (J)	0.0173 (J)	0.0085 (J)			
6/29/2017							0.0145 (J)		
6/30/2017									
7/17/2017	<0.15								
10/16/2017	0.0016 (J)								
2/19/2018	<0.15								
3/27/2018			0.0023 (J)						
3/28/2018				0.0025 (J)	0.02 (J)	0.013 (J)			
3/29/2018		0.0078 (J)					0.014 (J)	0.0058 (J)	0.0034 (J)
6/5/2018		0.0079 (J)							
6/6/2018			0.0024 (J)					0.0068 (J)	
6/7/2018				0.0017 (J)	0.02 (J)		0.013 (J)		0.0032 (J)
6/8/2018						0.012 (J)			
8/6/2018	<0.15								
9/26/2018							0.014 (J)	0.0065 (J)	0.0032 (J)
10/1/2018		0.0053 (J)	0.0023 (J)	<0.03	0.02 (J)	0.011 (J)			
2/26/2019									
2/27/2019		0.0093 (J)	0.0023 (J)	0.0011 (J)	0.021 (J)	0.014 (J)			
3/4/2019							0.015 (J)	0.0065 (J)	0.0032 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
3/28/2019		0.013 (J)	0.0022 (J)						
3/29/2019				0.0016 (J)					
4/1/2019					0.021 (J)	0.013 (J)			
4/3/2019							0.014 (J)	0.007 (J)	0.0035 (J)
8/19/2019	0.0019 (J)								
9/24/2019		0.0046 (J)	0.0023 (J)	0.0011 (J)				0.0065 (J)	0.0031 (J)
9/25/2019					0.02 (J)	0.01 (J)	0.014 (J)		
10/8/2019	0.0015 (J)								
2/10/2020		0.011 (J)	0.0023 (J)						
2/11/2020				0.0012 (J)		0.013 (J)			
2/12/2020					0.019 (J)		0.011 (J)	0.0066 (J)	0.0032 (J)
3/17/2020	0.0017 (J)								
3/18/2020			0.0024 (J)						
3/19/2020		0.013 (J)		0.0022 (J)	0.023 (J)	0.014 (J)			
3/24/2020								0.0064 (J)	0.0033 (J)
3/25/2020							0.014 (J)		
8/26/2020	0.0032 (J)								
9/22/2020	0.0029 (J)						0.013 (J)	0.0066 (J)	0.0034 (J)
9/23/2020		0.014 (J)	0.0024 (J)	0.0016 (J)	0.023 (J)	0.013 (J)			
9/25/2020									
2/8/2021								0.0063 (J)	0.0032 (J)
2/9/2021							0.011 (J)		
2/10/2021				0.0039 (J)	0.023 (J)	0.015 (J)			
2/12/2021		0.01 (J)	0.0025 (J)						
3/2/2021	0.0033 (J)							0.0018 (J)	0.0031 (J)
3/3/2021		0.012 (J)	0.0025 (J)	0.0016 (J)	0.024 (J)	0.017 (J)	0.012 (J)		
8/19/2021		0.013 (J)	0.0023 (J)		0.023 (J)				
8/20/2021	0.0028 (J)								
8/26/2021							0.0094 (J)	0.0075 (J)	0.0032 (J)
8/27/2021				0.0058 (J)		0.026 (J)			
2/8/2022	0.0031 (J)								
2/9/2022		0.013 (J)	0.0027 (J)	0.006 (J)	0.026 (J)	0.021 (J)			
2/10/2022								0.0076 (J)	0.0036 (J)
2/11/2022							0.012 (J)		
8/30/2022	0.0025 (J)	0.013 (J)		0.0044 (J)				0.0068 (J)	0.0035 (J)
8/31/2022			<0.03		0.021 (J)	0.022 (J)	0.013 (J)		
2/7/2023	0.0022 (J)	0.006 (J)	0.0029 (J)	0.0047 (J)				0.0059 (J)	
2/8/2023					0.023 (J)	0.018 (J)			
2/9/2023							0.014 (J)		0.0036 (J)
8/15/2023	<0.15	0.0079 (J)	0.002 (J)	<0.03	0.023 (J)		0.0083 (J)	0.0059 (J)	<0.15
8/16/2023						0.025 (J)			
2/20/2024	0.0024 (J)	0.0071 (J)	<0.03	0.0021 (J)	0.021 (J)	0.02 (J)	0.014 (J)	0.0056 (J)	0.0033 (J)
2/23/2024									
8/20/2024		0.0037 (J)	0.0023 (J)	<0.03	0.021 (J)	0.017 (J)	0.011 (J)	0.0024 (J)	0.0031 (J)
2/25/2025		0.00366 (J)	0.0027 (J)	0.00111 (J)	0.0219 (J)	0.0168 (J)	0.0125 (J)	0.00582 (J)	0.00364 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (bg)
6/1/2016	
6/2/2016	<0.03
7/25/2016	
7/26/2016	<0.03
8/31/2016	
9/13/2016	
9/14/2016	
9/15/2016	<0.03
11/1/2016	
11/2/2016	<0.03
11/4/2016	
11/28/2016	
12/15/2016	
1/10/2017	<0.03
1/11/2017	
1/12/2017	
1/13/2017	
1/16/2017	
2/22/2017	
3/1/2017	
3/2/2017	
3/3/2017	
3/6/2017	
3/7/2017	
3/8/2017	<0.03
4/26/2017	<0.03
4/27/2017	
4/28/2017	
5/1/2017	
5/2/2017	
5/8/2017	
5/26/2017	
6/27/2017	
6/28/2017	
6/29/2017	
6/30/2017	<0.03
7/17/2017	
10/16/2017	
2/19/2018	
3/27/2018	<0.03
3/28/2018	
3/29/2018	
6/5/2018	
6/6/2018	
6/7/2018	
6/8/2018	<0.03
8/6/2018	
9/26/2018	
10/1/2018	<0.03
2/26/2019	<0.03
2/27/2019	
3/4/2019	

Time Series

Constituent: Lithium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (bg)
3/28/2019	
3/29/2019	<0.03
4/1/2019	
4/3/2019	
8/19/2019	
9/24/2019	
9/25/2019	<0.03
10/8/2019	
2/10/2020	
2/11/2020	
2/12/2020	<0.03
3/17/2020	
3/18/2020	<0.03
3/19/2020	
3/24/2020	
3/25/2020	
8/26/2020	
9/22/2020	
9/23/2020	
9/25/2020	<0.03
2/8/2021	
2/9/2021	
2/10/2021	<0.03
2/12/2021	
3/2/2021	<0.03
3/3/2021	
8/19/2021	<0.03
8/20/2021	
8/26/2021	
8/27/2021	
2/8/2022	
2/9/2022	
2/10/2022	<0.03
2/11/2022	
8/30/2022	
8/31/2022	<0.03
2/7/2023	
2/8/2023	<0.03
2/9/2023	
8/15/2023	<0.03
8/16/2023	
2/20/2024	
2/23/2024	<0.03
8/20/2024	<0.03
2/25/2025	<0.03

Time Series

Constituent: Lithium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)
6/2/2016						<0.03			
6/6/2016		0.0088	0.015						
6/7/2016	<0.03			<0.03	0.0055				
7/25/2016						<0.03			
7/27/2016	<0.03	0.0087 (J)	0.0049 (J)	<0.03					
7/28/2016					0.0045 (J)				
8/30/2016									0.0061 (J)
9/16/2016	<0.03		0.0031 (J)						
9/19/2016		0.0043 (J)		<0.03	0.0054 (J)	<0.03			
11/1/2016						<0.03			
11/2/2016				<0.03					
11/3/2016	<0.03	<0.15	0.0021 (J)		<0.05				
11/14/2016									0.0064 (J)
1/11/2017	0.0035 (J)	0.0052 (J)	0.0025 (J)						
1/13/2017				<0.03	0.0062 (J)				
1/16/2017						<0.03			
2/21/2017						<0.03			
2/24/2017									0.0049 (J)
3/1/2017		0.0053 (J)	0.0029 (J)						
3/2/2017	<0.03								
3/6/2017				<0.03	0.0059 (J)				
4/26/2017		0.0041 (J)	0.0019 (J)	<0.03	0.0054 (J)	<0.03			
5/2/2017	<0.03								
5/8/2017									0.0053 (J)
6/28/2017		0.0039 (J)	0.0016 (J)						
6/29/2017	<0.03			<0.03	0.0047 (J)				
6/30/2017						<0.03			
7/11/2017									0.0051 (J)
10/10/2017									0.0043 (J)
10/11/2017							0.0018 (J)		
10/12/2017								<0.03	
11/20/2017							0.0018 (J)	<0.03	
1/10/2018								<0.03	
1/11/2018							0.0019 (J)		
1/12/2018									
2/19/2018								<0.03	
2/20/2018							<0.05		
3/27/2018						0.0011 (J)			
3/28/2018	<0.03	0.0041 (J)	0.0024 (J)						
3/29/2018				<0.03	0.0062 (J)				
4/2/2018									0.0045 (J)
4/3/2018							0.0022 (J)	<0.03	
6/5/2018					0.0061 (J)				
6/6/2018				<0.03					
6/7/2018		0.0032 (J)							
6/11/2018	<0.03		0.0014 (J)			0.0012 (J)			
6/28/2018							0.0026 (J)	<0.03	
8/7/2018							0.0024 (J)	<0.03	
9/19/2018									0.0043 (J)
9/24/2018							0.0022 (J)	<0.03	
9/25/2018	<0.03	0.0036 (J)	0.0016 (J)	<0.03	0.0062 (J)				
10/2/2018						<0.03			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)
2/26/2019						0.0011 (J)			
3/5/2019	<0.03		0.0031 (J)	<0.03	0.0053 (J)				
3/6/2019		0.0033 (J)							
4/1/2019						0.001 (J)			
4/2/2019	<0.03				0.0051 (J)				
4/3/2019		0.0035 (J)	0.0028 (J)	<0.03					
8/20/2019									0.0036 (J)
8/21/2019							0.0035 (J)	<0.03	
8/22/2019									
9/24/2019					0.0068 (J)				
9/25/2019	<0.03			<0.03		0.0011 (J)			
9/26/2019		0.0032 (J)	0.0029 (J)						
10/8/2019									0.0036 (J)
10/9/2019							0.0036 (J)	<0.03	
2/11/2020	<0.03	0.0033 (J)	0.005 (J)						
2/12/2020				<0.03	0.0065 (J)	0.0013 (J)	0.0041 (J)	<0.03	
2/14/2020									
3/17/2020									0.0046 (J)
3/19/2020						0.0012 (J)			
3/24/2020	0.0034 (J)	0.0033 (J)	0.0035 (J)	<0.03	0.0064 (J)			<0.03	
3/25/2020							0.0049 (J)		
8/27/2020									0.0039 (J)
9/22/2020									0.0036 (J)
9/23/2020	<0.03	0.003 (J)	0.0022 (J)						
9/24/2020				<0.03	0.0069 (J)	0.0011 (J)	0.0054 (J)	<0.03	
9/25/2020									
2/9/2021	<0.03	0.0031 (J)	0.0019 (J)	<0.03	0.006 (J)				
2/10/2021							0.0071 (J)	<0.03	
2/11/2021						0.0012 (J)			
3/1/2021						0.0011 (J)			0.0037 (J)
3/3/2021	<0.03	0.0034 (J)	0.0021 (J)	<0.03					
3/4/2021					0.0062 (J)		0.0084 (J)	<0.03	
8/19/2021						0.0012 (J)			0.0038 (J)
8/26/2021			0.0019 (J)				0.0082 (J)		
8/27/2021	<0.03	0.0032 (J)		<0.03					
9/1/2021					0.0057 (J)				
9/3/2021								<0.03	
2/8/2022							0.008 (J)	0.00076 (J)	0.0039 (J)
2/9/2022	<0.03	0.0032 (J)	0.0015 (J)	0.00082 (J)	0.0061 (J)				
2/10/2022									
2/11/2022						0.0014 (J)			
8/30/2022	<0.03	0.0036 (J)	0.0014 (J)		0.0079 (J)				
8/31/2022				<0.03		0.0012 (J)	0.0065 (J)	<0.03	0.0037 (J)
9/1/2022									
2/7/2023	<0.03	0.003 (J)	0.0012 (J)	<0.03	0.0059 (J)		0.0065 (J)		
2/8/2023						0.0011 (J)		0.00074 (J)	0.0037 (J)
8/15/2023	<0.03	<0.15	0.00077 (J)	<0.03	0.0062 (J)		0.0064 (J)	<0.03	0.004 (J)
8/16/2023						<0.03			
2/20/2024	<0.03	0.0038 (J)		<0.03	0.0062 (J)	<0.03	0.0059 (J)	<0.03	0.0036 (J)
2/22/2024									
2/23/2024			<0.03						
8/20/2024	<0.03	0.0032 (J)		<0.03	0.0057 (J)	<0.03			0.0036 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)
8/21/2024			0.0032 (J)				0.0055 (J)	<0.03	
8/23/2024									
2/25/2025	<0.03	0.00373 (J)	0.00129 (J)	<0.03	0.0067 (J)	0.00127 (J)	0.00608 (J)	0.000836 (J)	0.00393 (J)
2/26/2025									

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38
6/2/2016	
6/6/2016	
6/7/2016	
7/25/2016	
7/27/2016	
7/28/2016	
8/30/2016	
9/16/2016	
9/19/2016	
11/1/2016	
11/2/2016	
11/3/2016	
11/14/2016	
1/11/2017	
1/13/2017	
1/16/2017	
2/21/2017	
2/24/2017	
3/1/2017	
3/2/2017	
3/6/2017	
4/26/2017	
5/2/2017	
5/8/2017	
6/28/2017	
6/29/2017	
6/30/2017	
7/11/2017	
10/10/2017	
10/11/2017	
10/12/2017	0.0095 (J)
11/20/2017	0.0083 (J)
1/10/2018	
1/11/2018	
1/12/2018	0.0089 (J)
2/19/2018	
2/20/2018	0.0082 (J)
3/27/2018	
3/28/2018	
3/29/2018	
4/2/2018	
4/3/2018	0.0097 (J)
6/5/2018	
6/6/2018	
6/7/2018	
6/11/2018	
6/28/2018	0.0093 (J)
8/7/2018	0.0092 (J)
9/19/2018	
9/24/2018	0.0083 (J)
9/25/2018	
10/2/2018	

Time Series

Constituent: Lithium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38
2/26/2019	
3/5/2019	
3/6/2019	
4/1/2019	
4/2/2019	
4/3/2019	
8/20/2019	
8/21/2019	
8/22/2019	0.0082 (J)
9/24/2019	
9/25/2019	
9/26/2019	
10/8/2019	
10/9/2019	0.0081 (J)
2/11/2020	
2/12/2020	
2/14/2020	0.0076 (J)
3/17/2020	
3/19/2020	
3/24/2020	
3/25/2020	0.0081 (J)
8/27/2020	
9/22/2020	
9/23/2020	
9/24/2020	
9/25/2020	0.0069 (J)
2/9/2021	0.0067 (J)
2/10/2021	
2/11/2021	
3/1/2021	
3/3/2021	
3/4/2021	0.0067 (J)
8/19/2021	
8/26/2021	0.007 (J)
8/27/2021	
9/1/2021	
9/3/2021	
2/8/2022	
2/9/2022	
2/10/2022	0.0068 (J)
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	0.006 (J)
2/7/2023	
2/8/2023	0.0058 (J)
8/15/2023	
8/16/2023	0.0058 (J)
2/20/2024	
2/22/2024	0.0058 (J)
2/23/2024	
8/20/2024	

Time Series

Constituent: Lithium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38
8/21/2024	
8/23/2024	0.0052 (J)
2/25/2025	
2/26/2025	0.00621 (J)

Time Series

Constituent: Lithium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-41	YGWC-23S	YGWC-24SB	YGWC-36A	YGWC-42	YGWC-43	YGWC-49	YGWC-50	YAMW-1
6/7/2016		<0.005							
6/8/2016			<0.03						
7/28/2016		0.0019 (J)							
8/1/2016			<0.03						
8/30/2016					0.0257 (J)				
8/31/2016						0.006 (J)			
9/1/2016							0.0034 (J)		
9/2/2016				0.0029 (J)					
9/20/2016		0.0021 (J)	<0.03						
11/8/2016		0.0024 (J)	<0.03						
11/14/2016				0.0044 (J)					
11/15/2016							0.0044 (J)		
11/16/2016					0.0221 (J)	0.0095 (J)			
1/16/2017		0.0022 (J)							
1/17/2017			<0.03						
2/24/2017						0.0104 (J)			
2/27/2017					0.0208 (J)		0.0036 (J)		
2/28/2017				0.0038 (J)					
3/8/2017			<0.03						
3/9/2017		0.0025 (J)							
5/2/2017		0.0019 (J)	<0.03						
5/9/2017				0.0057 (J)			0.0038 (J)		
5/10/2017					0.0316 (J)	0.0123 (J)			
7/7/2017			<0.03						
7/10/2017		0.0018 (J)							
7/11/2017					0.0281 (J)	0.0131 (J)			
7/13/2017				0.007 (J)			0.0036 (J)		
9/22/2017				0.0067 (J)					
9/29/2017				0.0064 (J)					
10/6/2017				0.0065 (J)					
10/11/2017							0.0036 (J)		
10/12/2017	0.004 (J)				0.0331 (J)	0.013 (J)			
11/21/2017	0.0043 (J)								
1/11/2018	0.0044 (J)								
2/19/2018	<0.05								
3/30/2018		0.0039 (J)	<0.03	0.0061 (J)					
4/3/2018	0.0047 (J)								
4/4/2018					0.037 (J)	0.016 (J)	0.0039 (J)		
6/12/2018		0.0017 (J)	<0.03						
6/13/2018				0.0065 (J)					
6/27/2018	0.0042 (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)								
9/26/2018			<0.03	0.0063 (J)					
9/27/2018		0.0017 (J)							
10/16/2018									0.0052 (J)
3/5/2019			<0.03						
3/6/2019		0.0025 (J)		0.0057 (J)					
4/4/2019		0.0018 (J)	<0.03	0.0058 (J)					
8/21/2019						0.015 (J)			
8/22/2019	0.0035 (J)				0.047				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-41	YGWC-23S	YGWC-24SB	YGWC-36A	YGWC-42	YGWC-43	YGWC-49	YGWC-50	YAMW-1
9/26/2019			<0.03	0.0041 (J)			0.0036 (J)		<0.03
9/27/2019		0.0017 (J)							
10/9/2019	0.0032 (J)				0.037	0.018 (J)			
2/13/2020			<0.03						
2/14/2020	0.0029 (J)			0.0024 (J)	0.038				
2/17/2020		0.0021 (J)				0.015 (J)	0.0032 (J)		
3/25/2020	0.0029 (J)			0.0032 (J)	0.045	0.016 (J)	0.0037 (J)		0.0011 (J)
3/26/2020		0.0021 (J)	<0.03						
9/23/2020			<0.03						
9/24/2020		0.0035 (J)			0.05		0.0037 (J)		0.011 (J)
9/25/2020	0.0025 (J)					0.018 (J)			
10/7/2020				0.0014 (J)					
2/9/2021		0.0026 (J)	<0.03			0.024 (J)	0.0038 (J)		0.021 (J)
2/10/2021	0.0021 (J)			0.0011 (J)	0.058				
3/3/2021			<0.03						0.022 (J)
3/4/2021	0.0021 (J)	0.0026 (J)		<0.03	0.059	0.025 (J)	0.0035 (J)		
8/25/2021		0.0026 (J)			0.053				
8/26/2021	0.0021 (J)								
9/1/2021			<0.03				0.0036 (J)		0.013 (J)
9/3/2021				0.00086 (J)					
9/27/2021						0.0092 (J)			
2/8/2022	0.0023 (J)					0.016 (J)	0.0036 (J)		
2/10/2022		0.0029 (J)	<0.03		0.052				0.014 (J)
2/11/2022				0.00093 (J)					
8/31/2022							0.0031 (J)		0.021 (J)
9/1/2022	0.0019 (J)	0.0025 (J)		0.00089 (J)	0.054	0.014 (J)			
2/8/2023	0.0021 (J)	0.0028 (J)			0.046	0.015 (J)			
2/9/2023				0.001 (J)			0.0033 (J)		0.019 (J)
2/10/2023			<0.03						
8/16/2023	0.0021 (J)	0.0024 (J)	<0.03	0.0014 (J)	0.054	0.015 (J)	0.003 (J)		0.016 (J)
8/17/2023								0.0033 (J)	
12/20/2023								0.0035 (J)	
2/21/2024		0.0024 (J)					0.0029 (J)		
2/22/2024	0.0026 (J)				0.049	0.015 (J)		0.0036 (J)	
2/23/2024			<0.03	0.0017 (J)					0.017 (J)
6/10/2024								0.0033 (J)	
8/21/2024		0.0023 (J)							
8/22/2024			<0.03	0.002 (J)	0.051	0.015 (J)	0.0029 (J)		0.016 (J)
8/23/2024	0.002 (J)							0.0031 (J)	
11/26/2024								0.0032 (J)	
2/26/2025	0.00235 (J)			0.00237 (J)	0.0556		0.0033 (J)	0.00277 (J)	0.0285 (J)
2/27/2025		0.00324 (J)				0.0189 (J)			
3/17/2025			0.000839 (J)						
5/21/2025								0.00292 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-2
6/7/2016	
6/8/2016	
7/28/2016	
8/1/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/20/2016	
11/8/2016	
11/14/2016	
11/15/2016	
11/16/2016	
1/16/2017	
1/17/2017	
2/24/2017	
2/27/2017	
2/28/2017	
3/8/2017	
3/9/2017	
5/2/2017	
5/9/2017	
5/10/2017	
7/7/2017	
7/10/2017	
7/11/2017	
7/13/2017	
9/22/2017	
9/29/2017	
10/6/2017	
10/11/2017	
10/12/2017	
11/21/2017	
1/11/2018	
2/19/2018	
3/30/2018	
4/3/2018	
4/4/2018	
6/12/2018	
6/13/2018	
6/27/2018	
8/7/2018	
9/20/2018	
9/24/2018	
9/26/2018	
9/27/2018	
10/16/2018	
3/5/2019	
3/6/2019	
4/4/2019	
8/21/2019	
8/22/2019	

Time Series

Constituent: Lithium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-2
9/26/2019	
9/27/2019	
10/9/2019	
2/13/2020	
2/14/2020	
2/17/2020	
3/25/2020	
3/26/2020	
9/23/2020	<0.03
9/24/2020	
9/25/2020	
10/7/2020	
2/9/2021	<0.03
2/10/2021	
3/3/2021	<0.03
3/4/2021	
8/25/2021	
8/26/2021	
9/1/2021	<0.03
9/3/2021	
9/27/2021	
2/8/2022	
2/10/2022	<0.03
2/11/2022	
8/31/2022	
9/1/2022	<0.03
2/8/2023	<0.03
2/9/2023	
2/10/2023	
8/16/2023	
8/17/2023	<0.03
12/20/2023	
2/21/2024	
2/22/2024	<0.03
2/23/2024	
6/10/2024	
8/21/2024	<0.03
8/22/2024	
8/23/2024	
11/26/2024	
2/26/2025	<0.03
2/27/2025	
3/17/2025	
5/21/2025	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-3	YAMW-4	YAMW-5	PZ-35	PZ-37D	PZ-37	PZ-51	PZ-52D	PZ-54D
10/12/2017						0.0271 (J)			
11/21/2017						0.0255 (J)			
1/11/2018						0.0271 (J)			
2/20/2018						<0.25			
4/3/2018						0.027 (J)			
6/29/2018						0.032 (J)			
8/6/2018						0.033 (J)			
9/24/2018						0.028 (J)			
10/16/2018				0.0011 (J)					
9/26/2019				<0.03					
3/25/2020				0.011 (J)					
9/23/2020		0.03 (J)							
9/24/2020			0.013 (J)	0.001 (J)					
9/25/2020						0.028 (J)			
2/9/2021		0.018 (J)	0.016 (J)			0.024 (J)			
2/10/2021				0.0012 (J)					
3/3/2021		0.02 (J)							
3/4/2021			0.016 (J)	0.0015 (J)		0.028 (J)			
5/13/2021					0.011 (J)				
8/25/2021		0.033				0.023 (J)			
8/26/2021			0.015 (J)						
9/1/2021				0.0019 (J)					
9/3/2021					0.013 (J)				
11/4/2021								0.016 (J)	
11/17/2021	0.046 (OX)						0.0049 (J)		
12/9/2021	0.042								
2/10/2022	0.054	0.036	0.015 (J)	0.0021 (J)		0.017 (J)	0.006 (J)		
2/11/2022					0.0087 (J)			0.015 (J)	
4/4/2022						0.013 (J)			
4/7/2022						0.015 (J)			
8/31/2022				0.0025 (J)					
9/1/2022	0.041	0.032	0.013 (J)		0.0044 (J)	0.016 (J)	0.0051 (J)	0.023 (J)	
2/8/2023		0.033	0.014 (J)		0.0088 (J)	0.013 (J)		0.025 (J)	
2/9/2023	0.048			0.0026 (J)			0.0045 (J)		
8/16/2023	0.04	0.033	0.014 (J)	0.0026 (J)	0.0095 (J)		0.0048 (J)		
8/17/2023						0.016 (J)		0.029 (J)	
2/21/2024	0.047				0.009 (J)	0.015 (J)		0.027 (J)	
2/22/2024		0.036	0.014 (J)				0.005 (J)		
2/23/2024				0.0032 (J)					
6/12/2024									0.022 (J)
8/21/2024					0.0068 (J)	0.017 (J)		0.029 (J)	
8/22/2024	0.048			0.0028 (J)			0.0053 (J)		
8/23/2024		0.035	0.014 (J)						
11/7/2024									0.027 (J)
2/25/2025				0.00438 (J)					
2/26/2025	0.0573	0.0404							
2/27/2025			0.0168 (J)		0.0102 (J)	0.0172 (J)	0.00602 (J)	0.0331	0.0237 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	PZ-55
10/12/2017	
11/21/2017	
1/11/2018	
2/20/2018	
4/3/2018	
6/29/2018	
8/6/2018	
9/24/2018	
10/16/2018	
9/26/2019	
3/25/2020	
9/23/2020	
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	
3/3/2021	
3/4/2021	
5/13/2021	
8/25/2021	
8/26/2021	
9/1/2021	
9/3/2021	
11/4/2021	
11/17/2021	
12/9/2021	
2/10/2022	
2/11/2022	
4/4/2022	
4/7/2022	
8/31/2022	
9/1/2022	
2/8/2023	
2/9/2023	
8/16/2023	
8/17/2023	
2/21/2024	
2/22/2024	0.0034 (J)
2/23/2024	
6/12/2024	
8/21/2024	0.003 (J)
8/22/2024	
8/23/2024	
11/7/2024	
2/25/2025	
2/26/2025	
2/27/2025	0.00343 (J)

Time Series

Constituent: Mercury (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
5/1/2007	<0.0002								
9/12/2007	<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			<0.0002			
6/2/2016					<0.0002		<0.0002	<0.0002	<0.0002
7/21/2016	<0.0002								
7/25/2016			<0.0002			<0.0002			
7/26/2016		<0.0002			<0.0002		<0.0002	<0.0002	<0.0002
8/31/2016	<0.0002								
9/13/2016		<0.0002	<0.0002						
9/14/2016				<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
9/15/2016					<0.0002				
11/1/2016		<0.0002			<0.0002	<0.0002			
11/2/2016							<0.0002	<0.0002	
11/4/2016			<0.0002	<0.0002					<0.0002
11/28/2016	<0.0002								
12/15/2016				<0.0002					
1/10/2017									
1/11/2017		<0.0002			<0.0002	<0.0002			
1/12/2017								<0.0002	<0.0002
1/13/2017							<0.0002		
1/16/2017			<0.0002	<0.0002					
2/22/2017	<0.0002								
3/1/2017						<0.0002			
3/2/2017		<0.0002	<0.0002		6E-05 (J)				
3/3/2017				<0.0002					
3/6/2017							0.00014 (J)		
3/7/2017								0.0001 (J)	0.00013 (J)
3/8/2017									
4/26/2017					<0.0002	<0.0002			
4/27/2017		<0.0002	<0.0002						
4/28/2017				<0.0002					
5/1/2017							<0.0002	<0.0002	
5/2/2017									<0.0002
5/8/2017	<0.0002								
5/26/2017				<0.0002					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/27/2017		<0.0002	<0.0002					<0.0002	<0.0002
6/28/2017				<0.0002	<0.0002	<0.0002			
6/29/2017							<0.0002		
6/30/2017									
7/17/2017	<0.0002								
10/16/2017	<0.0002								
2/19/2018	<0.0002								
3/27/2018			<0.0002						
3/28/2018				<0.0002	<0.0002	<0.0002			
3/29/2018		<0.0002					<0.0002	<0.0002	<0.0002
8/6/2018	<0.0002								
9/26/2018							<0.0002	<0.0002	<0.0002
2/25/2019	7.4E-05 (J)								
2/26/2019									
2/27/2019		5.1E-05 (J)	5.4E-05 (J)	<0.0002	6.2E-05 (J)	6.1E-05 (J)			
3/4/2019							<0.0002	<0.0002	<0.0002
3/28/2019		4E-05 (J)	<0.0002						
3/29/2019				<0.0002					
4/1/2019					9.6E-05 (J)	8.4E-05 (J)			
6/12/2019	<0.0002								
8/19/2019	<0.0002								
9/24/2019		<0.0002	<0.0002	<0.0002					
9/25/2019					<0.0002	<0.0002			
10/8/2019	<0.0002								
2/10/2020		<0.0002	<0.0002						
2/11/2020				<0.0002		<0.0002			
2/12/2020					<0.0002		<0.0002	<0.0002	<0.0002
5/6/2020	<0.0002								
8/26/2020	<0.0002								
9/22/2020	<0.0002								
2/8/2021								<0.0002	<0.0002
2/9/2021							<0.0002		
2/10/2021				<0.0002	<0.0002	<0.0002			
2/12/2021		<0.0002	<0.0002						
3/2/2021	<0.0002							<0.0002	<0.0002
3/3/2021							<0.0002		
8/20/2021	<0.0002								
8/26/2021							<0.0002	<0.0002	<0.0002
2/8/2022	<0.0002								
2/9/2022		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			
2/10/2022								<0.0002	<0.0002
2/11/2022							<0.0002		
8/30/2022	<0.0002	<0.0002		<0.0002				<0.0002	<0.0002
8/31/2022			<0.0002		<0.0002	<0.0002	<0.0002		
2/7/2023	0.00013 (J)	<0.0002	<0.0002	<0.0002				<0.0002	
2/8/2023					<0.0002	<0.0002			
2/9/2023							<0.0002		<0.0002
8/15/2023	<0.0002	0.00015 (J)	0.00015 (J)	0.00015 (J)	0.00014 (J)		0.00013 (J)	0.00015 (J)	0.00014 (J)
8/16/2023						<0.0002			
2/20/2024	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/23/2024									
8/20/2024		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
2/25/2025		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (bg)
5/1/2007	
9/12/2007	
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	
6/2/2016	<0.0002
7/21/2016	
7/25/2016	
7/26/2016	<0.0002
8/31/2016	
9/13/2016	
9/14/2016	
9/15/2016	<0.0002
11/1/2016	
11/2/2016	<0.0002
11/4/2016	
11/28/2016	
12/15/2016	
1/10/2017	<0.0002
1/11/2017	
1/12/2017	
1/13/2017	
1/16/2017	
2/22/2017	
3/1/2017	
3/2/2017	
3/3/2017	
3/6/2017	
3/7/2017	
3/8/2017	0.00012 (J)
4/26/2017	<0.0002
4/27/2017	
4/28/2017	
5/1/2017	
5/2/2017	
5/8/2017	
5/26/2017	

Time Series

Constituent: Mercury (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (bg)
6/27/2017	
6/28/2017	
6/29/2017	
6/30/2017	<0.0002
7/17/2017	
10/16/2017	
2/19/2018	
3/27/2018	<0.0002
3/28/2018	
3/29/2018	
8/6/2018	
9/26/2018	
2/25/2019	
2/26/2019	6.1E-05 (J)
2/27/2019	
3/4/2019	
3/28/2019	
3/29/2019	<0.0002
4/1/2019	
6/12/2019	
8/19/2019	
9/24/2019	
9/25/2019	<0.0002
10/8/2019	
2/10/2020	
2/11/2020	
2/12/2020	<0.0002
5/6/2020	
8/26/2020	
9/22/2020	
2/8/2021	
2/9/2021	
2/10/2021	<0.0002
2/12/2021	
3/2/2021	
3/3/2021	
8/20/2021	
8/26/2021	
2/8/2022	
2/9/2022	
2/10/2022	<0.0002
2/11/2022	
8/30/2022	
8/31/2022	<0.0002
2/7/2023	
2/8/2023	<0.0002
2/9/2023	
8/15/2023	0.00016 (J)
8/16/2023	
2/20/2024	
2/23/2024	<0.0002
8/20/2024	<0.0002

Time Series

Constituent: Mercury (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (bg)
2/25/2025	<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)
6/2/2016						<0.0002			
6/6/2016		7.4E-05 (J)	7.6E-05 (J)						
6/7/2016	9.5E-05 (J)			9.6E-05 (J)	9.6E-05 (J)				
7/25/2016						<0.0002			
7/27/2016	<0.0002	<0.0002	<0.0002	<0.0002					
7/28/2016					<0.0002				
8/30/2016									<0.0002
9/16/2016	<0.0002		<0.0002						
9/19/2016		<0.0002		<0.0002	<0.0002	<0.0002			
11/1/2016						<0.0002			
11/2/2016				<0.0002					
11/3/2016	<0.0002	<0.0002	<0.0002		<0.0002				
11/14/2016									<0.0002
1/11/2017	<0.0002	<0.0002	<0.0002						
1/13/2017				<0.0002	<0.0002				
1/16/2017						<0.0002			
2/21/2017						<0.0002			
2/24/2017									<0.0002
3/1/2017		<0.0002	<0.0002						
3/2/2017	<0.0002								
3/6/2017				0.00014 (J)	0.00014 (J)				
4/26/2017		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			
5/2/2017	<0.0002								
5/8/2017									<0.0002
6/28/2017		<0.0002	<0.0002						
6/29/2017	<0.0002			5.3E-05 (J)	<0.0002				
6/30/2017						6E-05 (J)			
7/11/2017									<0.0002
10/10/2017									<0.0002
10/11/2017							<0.0002		
10/12/2017								<0.0002	
11/20/2017							7E-05 (J)	8E-05 (J)	
1/10/2018								<0.0002	
1/11/2018							<0.0002		
1/12/2018									
2/19/2018								<0.0002	
2/20/2018							<0.0002		
3/27/2018						<0.0002			
3/28/2018	<0.0002	<0.0002	<0.0002						
3/29/2018				<0.0002	<0.0002				
4/2/2018									<0.0002
4/3/2018							<0.0002	<0.0002	
6/28/2018							<0.0002	3.6E-05 (J)	
8/7/2018							<0.0002	<0.0002	
9/19/2018									5.3E-05 (J)
9/24/2018							<0.0002	<0.0002	
9/25/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002				
2/26/2019						6.8E-05 (J)			
3/5/2019	<0.0002		<0.0002	<0.0002	<0.0002				
3/6/2019		<0.0002							
4/1/2019						8.2E-05 (J)			
8/20/2019									<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)
8/21/2019							<0.0002	<0.0002	
8/22/2019									
9/25/2019						<0.0002			
2/11/2020	<0.0002	<0.0002	<0.0002						
2/12/2020				<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
2/14/2020									
8/27/2020									<0.0002
2/9/2021	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002				
2/10/2021							<0.0002	<0.0002	
2/11/2021						<0.0002			
3/3/2021	<0.0002	<0.0002	<0.0002	<0.0002					
3/4/2021					<0.0002		<0.0002	<0.0002	
8/19/2021									<0.0002
8/26/2021			<0.0002				<0.0002		
8/27/2021	<0.0002	<0.0002		<0.0002					
9/1/2021					<0.0002				
9/3/2021								0.00012 (J)	
2/8/2022							<0.0002	0.00013 (J)	<0.0002
2/9/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002				
2/10/2022									
2/11/2022						<0.0002			
8/30/2022	<0.0002	<0.0002	<0.0002		<0.0002				
8/31/2022				<0.0002		<0.0002	<0.0002	0.00064	<0.0002
9/1/2022									
2/7/2023	0.00018 (J)	0.00013 (J)	0.00017 (J)	0.00015 (J)	0.00017 (J)		<0.0002		
2/8/2023						<0.0002		<0.0002	<0.0002
8/15/2023	<0.0002	0.00014 (J)	0.00015 (J)	<0.0002	<0.0002		<0.0002	0.00037	0.00014 (J)
8/16/2023						<0.0002			
2/20/2024	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002	0.00032	<0.0002
2/22/2024									
2/23/2024			<0.0002						
8/20/2024	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002			<0.0002
8/21/2024			<0.0002				<0.0002	0.00033	
8/23/2024									
2/25/2025	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00034	<0.0002
2/26/2025									

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38
6/2/2016	
6/6/2016	
6/7/2016	
7/25/2016	
7/27/2016	
7/28/2016	
8/30/2016	
9/16/2016	
9/19/2016	
11/1/2016	
11/2/2016	
11/3/2016	
11/14/2016	
1/11/2017	
1/13/2017	
1/16/2017	
2/21/2017	
2/24/2017	
3/1/2017	
3/2/2017	
3/6/2017	
4/26/2017	
5/2/2017	
5/8/2017	
6/28/2017	
6/29/2017	
6/30/2017	
7/11/2017	
10/10/2017	
10/11/2017	
10/12/2017	<0.0002
11/20/2017	8E-05 (J)
1/10/2018	
1/11/2018	
1/12/2018	<0.0002
2/19/2018	
2/20/2018	<0.0002
3/27/2018	
3/28/2018	
3/29/2018	
4/2/2018	
4/3/2018	<0.0002
6/28/2018	3.7E-05 (J)
8/7/2018	<0.0002
9/19/2018	
9/24/2018	<0.0002
9/25/2018	
2/26/2019	
3/5/2019	
3/6/2019	
4/1/2019	
8/20/2019	

Time Series

Constituent: Mercury (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38
8/21/2019	
8/22/2019	<0.0002
9/25/2019	
2/11/2020	
2/12/2020	
2/14/2020	<0.0002
8/27/2020	
2/9/2021	<0.0002
2/10/2021	
2/11/2021	
3/3/2021	
3/4/2021	<0.0002
8/19/2021	
8/26/2021	<0.0002
8/27/2021	
9/1/2021	
9/3/2021	
2/8/2022	
2/9/2022	
2/10/2022	<0.0002
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	<0.0002
2/7/2023	
2/8/2023	<0.0002
8/15/2023	
8/16/2023	<0.0002
2/20/2024	
2/22/2024	<0.0002
2/23/2024	
8/20/2024	
8/21/2024	
8/23/2024	<0.0002
2/25/2025	
2/26/2025	<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-41	YGWC-23S	YGWC-24SB	YGWC-36A	YGWC-42	YGWC-43	YGWC-49	YGWC-50	YAMW-1
6/7/2016		9.8E-05 (J)							
6/8/2016			<0.0002						
7/28/2016		<0.0002							
8/1/2016			<0.0002						
8/30/2016					<0.0002				
8/31/2016						<0.0002			
9/1/2016							<0.0002		
9/2/2016				<0.0002					
9/20/2016		<0.0002	<0.0002						
11/8/2016		<0.0002	<0.0002						
11/14/2016				<0.0002					
11/15/2016							<0.0002		
11/16/2016					<0.0002	<0.0002			
1/16/2017		<0.0002							
1/17/2017			<0.0002						
2/24/2017						<0.0002			
2/27/2017					<0.0002		<0.0002		
2/28/2017				<0.0002					
3/8/2017			0.00014 (J)						
3/9/2017		0.00014 (J)							
5/2/2017		<0.0002	<0.0002						
5/9/2017				<0.0002			<0.0002		
5/10/2017					<0.0002	<0.0002			
7/7/2017			<0.0002						
7/10/2017		<0.0002							
7/11/2017					<0.0002	<0.0002			
7/13/2017				<0.0002			<0.0002		
9/22/2017				<0.0002					
9/29/2017				<0.0002					
10/6/2017				<0.0002					
10/11/2017							<0.0002		
10/12/2017	<0.0002				<0.0002	<0.0002			
11/21/2017	6E-05 (J)								
1/11/2018	<0.0002								
2/19/2018	<0.0002								
3/30/2018		<0.0002	<0.0002	<0.0002					
4/3/2018	<0.0002								
4/4/2018					<0.0002	<0.0002	<0.0002		
6/27/2018	<0.0002								
8/7/2018	<0.0002								
9/20/2018					4.8E-05 (J)	5.2E-05 (J)	6.1E-05 (J)		
9/24/2018	<0.0002								
9/26/2018			<0.0002	<0.0002					
9/27/2018		<0.0002							
3/5/2019			<0.0002						
3/6/2019		<0.0002		<0.0002					
8/21/2019						<0.0002			
8/22/2019	<0.0002				<0.0002				
2/13/2020			<0.0002						
2/14/2020	<0.0002			<0.0002	<0.0002				
2/17/2020		<0.0002				<0.0002	<0.0002		
9/23/2020									

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-41	YGWC-23S	YGWC-24SB	YGWC-36A	YGWC-42	YGWC-43	YGWC-49	YGWC-50	YAMW-1
9/24/2020									<0.0002
2/9/2021		0.00015 (J)	<0.0002			<0.0002	0.00014 (J)		<0.0002
2/10/2021	<0.0002			<0.0002	<0.0002				
3/3/2021			<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								
9/1/2021			<0.0002				<0.0002		<0.0002
9/3/2021				<0.0002					
9/27/2021						9E-05			
2/8/2022	<0.0002					<0.0002	<0.0002		
2/10/2022		<0.0002	<0.0002		<0.0002				<0.0002
2/11/2022				<0.0002					
8/31/2022							<0.0002		<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			
2/9/2023				<0.0002			<0.0002		<0.0002
2/10/2023			<0.0002						
8/16/2023	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
8/17/2023								<0.0002	
12/20/2023								<0.0002	
2/21/2024		<0.0002					<0.0002		
2/22/2024	<0.0002				<0.0002	<0.0002		<0.0002	
2/23/2024			<0.0002	<0.0002					<0.0002
6/10/2024								<0.0002	
8/21/2024		<0.0002							
8/22/2024			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		0.00014 (J)
8/23/2024	<0.0002							<0.0002	
11/26/2024								<0.0002	
2/26/2025	<0.0002			<0.0002	<0.0002		<0.0002	<0.0002	<0.0002
2/27/2025		<0.0002				<0.0002			
3/17/2025			<0.0002						
5/21/2025								<0.0002	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-2
6/7/2016	
6/8/2016	
7/28/2016	
8/1/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/20/2016	
11/8/2016	
11/14/2016	
11/15/2016	
11/16/2016	
1/16/2017	
1/17/2017	
2/24/2017	
2/27/2017	
2/28/2017	
3/8/2017	
3/9/2017	
5/2/2017	
5/9/2017	
5/10/2017	
7/7/2017	
7/10/2017	
7/11/2017	
7/13/2017	
9/22/2017	
9/29/2017	
10/6/2017	
10/11/2017	
10/12/2017	
11/21/2017	
1/11/2018	
2/19/2018	
3/30/2018	
4/3/2018	
4/4/2018	
6/27/2018	
8/7/2018	
9/20/2018	
9/24/2018	
9/26/2018	
9/27/2018	
3/5/2019	
3/6/2019	
8/21/2019	
8/22/2019	
2/13/2020	
2/14/2020	
2/17/2020	
9/23/2020	<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-2
9/24/2020	
2/9/2021	<0.0002
2/10/2021	
3/3/2021	<0.0002
3/4/2021	
8/25/2021	
8/26/2021	
9/1/2021	<0.0002
9/3/2021	
9/27/2021	
2/8/2022	
2/10/2022	<0.0002
2/11/2022	
8/31/2022	
9/1/2022	<0.0002
2/8/2023	<0.0002
2/9/2023	
2/10/2023	
8/16/2023	
8/17/2023	<0.0002
12/20/2023	
2/21/2024	
2/22/2024	<0.0002
2/23/2024	
6/10/2024	
8/21/2024	<0.0002
8/22/2024	
8/23/2024	
11/26/2024	
2/26/2025	<0.0002
2/27/2025	
3/17/2025	
5/21/2025	

Time Series

Constituent: Mercury (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-3	YAMW-4	YAMW-5	PZ-35	PZ-37D	PZ-37	PZ-51	PZ-52D	PZ-54D
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			
9/23/2020		<0.0002							
9/24/2020			<0.0002	<0.0002					
9/25/2020						<0.0002			
2/9/2021		<0.0002	<0.0002			<0.0002			
2/10/2021				<0.0002					
3/3/2021		<0.0002							
3/4/2021			<0.0002	<0.0002		<0.0002			
5/13/2021					<0.0002				
8/25/2021		<0.0002				<0.0002			
8/26/2021			<0.0002						
9/1/2021				<0.0002					
9/3/2021					<0.0002				
11/4/2021								<0.0002	
2/10/2022	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002		
2/11/2022					<0.0002			<0.0002	
4/4/2022						<0.0002			
4/7/2022						<0.0002			
8/31/2022				<0.0002					
9/1/2022	0.00016 (J)	<0.0002	<0.0002		<0.0002	0.00019 (J)	<0.0002	<0.0002	
2/8/2023		<0.0002	<0.0002		<0.0002	<0.0002		<0.0002	
2/9/2023	<0.0002			<0.0002			<0.0002		
8/16/2023	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002		
8/17/2023						<0.0002		<0.0002	
2/21/2024	<0.0002				<0.0002	<0.0002		<0.0002	
2/22/2024		<0.0002	<0.0002				<0.0002		
2/23/2024				<0.0002					
6/12/2024									<0.0002
8/21/2024					<0.0002	<0.0002		<0.0002	
8/22/2024	<0.0002			<0.0002			<0.0002		
8/23/2024		<0.0002	<0.0002						
11/7/2024									<0.0002
2/25/2025				<0.0002					
2/26/2025	<0.0002	<0.0002							
2/27/2025			<0.0002		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	PZ-55
10/12/2017	
11/21/2017	
1/11/2018	
2/20/2018	
4/3/2018	
6/29/2018	
8/6/2018	
9/24/2018	
9/23/2020	
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	
3/3/2021	
3/4/2021	
5/13/2021	
8/25/2021	
8/26/2021	
9/1/2021	
9/3/2021	
11/4/2021	
2/10/2022	
2/11/2022	
4/4/2022	
4/7/2022	
8/31/2022	
9/1/2022	
2/8/2023	
2/9/2023	
8/16/2023	
8/17/2023	
2/21/2024	
2/22/2024	<0.0002
2/23/2024	
6/12/2024	
8/21/2024	<0.0002
8/22/2024	
8/23/2024	
11/7/2024	
2/25/2025	
2/26/2025	
2/27/2025	<0.0002

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/1/2016		0.014 (J)	0.012 (J)			0.0055 (J)			
6/2/2016					0.0093 (J)		<0.01	0.0035 (J)	<0.01
7/25/2016			0.0098 (J)			0.0037 (J)			
7/26/2016		0.0132			0.0113		<0.01	0.0042 (J)	<0.01
8/31/2016	<0.01								
9/13/2016		0.0127	0.01 (J)						
9/14/2016				0.0039 (J)		0.0034 (J)	<0.01	0.0041 (J)	<0.01
9/15/2016					0.0112				
11/1/2016		0.0092 (J)			0.0099 (J)	0.0025 (J)			
11/2/2016							<0.01	0.0039 (J)	
11/4/2016			0.01	0.0077 (J)					<0.01
11/28/2016	<0.01								
12/15/2016				0.0066 (J)					
1/10/2017									
1/11/2017		0.0093 (J)			0.0093 (J)	0.0033 (J)			
1/12/2017								0.0041 (J)	<0.01
1/13/2017							<0.01		
1/16/2017			0.0086 (J)	0.0056 (J)					
2/22/2017	<0.01								
3/1/2017						0.0044 (J)			
3/2/2017		0.0099 (J)	0.01		0.0103				
3/3/2017				0.0049 (J)					
3/6/2017							<0.01		
3/7/2017								0.0047 (J)	<0.01
3/8/2017									
4/26/2017					0.01	0.0075 (J)			
4/27/2017		0.0103	0.0101						
4/28/2017				0.004 (J)					
5/1/2017							<0.01	0.0045 (J)	
5/2/2017									<0.01
5/8/2017	<0.01								
5/26/2017				0.0029 (J)					
6/27/2017		0.0097 (J)	0.0093 (J)					0.004 (J)	<0.01
6/28/2017				0.0036 (J)	0.0102	0.008 (J)			
6/29/2017							<0.01		
6/30/2017									
7/17/2017	<0.01								
10/16/2017	<0.01								
2/19/2018	<0.01								
3/27/2018			0.0074 (J)						
3/28/2018				0.0038 (J)	0.011	0.0025 (J)			
3/29/2018		0.0076 (J)					<0.01	<0.01	<0.01
6/5/2018		0.0092 (J)							
6/6/2018			0.0073 (J)						
6/7/2018				0.004 (J)	0.011				
6/8/2018						0.0041 (J)			
8/6/2018	<0.01								
10/1/2018		0.0085 (J)	0.0076 (J)	0.0042 (J)	0.012	0.0037 (J)			
2/26/2019									
2/27/2019		0.0087 (J)	0.0078 (J)	0.0041 (J)	0.011	0.0027 (J)			
3/4/2019							<0.01	<0.01	<0.01
3/28/2019		0.0092 (J)	0.0082 (J)						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
3/29/2019				0.0041 (J)					
4/1/2019					0.012	0.0021 (J)			
8/19/2019	<0.01								
9/24/2019		0.0072 (J)	0.0074 (J)	0.0054 (J)					
9/25/2019					0.012	0.0087 (J)			
2/10/2020		0.0087 (J)	0.0062 (J)						
2/11/2020				0.0057 (J)		0.003 (J)			
2/12/2020					0.013		<0.01	0.0011 (J)	<0.01
3/18/2020			0.0056 (J)						
3/19/2020		0.0088 (J)		0.0046 (J)	0.013	0.0043 (J)			
3/24/2020								0.0011 (J)	<0.01
3/25/2020							<0.01		
8/26/2020	<0.01								
9/22/2020							<0.01	0.00099 (J)	<0.01
9/23/2020		0.008 (J)	0.0059 (J)	0.0071 (J)	0.012	0.01			
9/25/2020									
2/8/2021								0.0011 (J)	<0.01
2/9/2021							<0.01		
2/10/2021				0.0041 (J)	0.014	0.0038 (J)			
2/12/2021		0.008 (J)	0.0056 (J)						
3/2/2021								<0.01	<0.01
3/3/2021		0.0088 (J)	0.0049 (J)	0.0074 (J)	0.013	0.0036 (J)	<0.01		
8/19/2021		0.0083 (J)	0.005 (J)		0.013				
8/20/2021	<0.01								
8/26/2021							<0.01	0.001 (J)	<0.01
8/27/2021				0.0048 (J)		0.0099 (J)			
2/8/2022	<0.01								
2/9/2022		0.0093 (J)	0.0055 (J)	0.0057 (J)	0.013	0.0087 (J)			
2/10/2022								0.00096 (J)	<0.01
2/11/2022							<0.01		
8/30/2022	<0.01	0.0094 (J)		0.0068 (J)				0.00089 (J)	<0.01
8/31/2022			0.0055 (J)		0.011	0.0068 (J)	<0.01		
2/7/2023	<0.01	<0.01	<0.01	0.0061 (J)				0.00095 (J)	
2/8/2023					0.012	0.0065 (J)			
2/9/2023							<0.01		<0.01
8/15/2023	<0.01	0.0098 (J)	0.0047 (J)	0.0071 (J)	0.012		<0.01	0.0009 (J)	<0.01
8/16/2023						0.012			
2/20/2024	<0.01	0.0098 (J)	0.03	0.0076 (J)	0.013	0.0089 (J)	<0.01	0.001 (J)	<0.01
2/23/2024									
8/20/2024		0.01	0.0039 (J)	0.011	0.012	0.0058 (J)	<0.01	0.00074 (J)	<0.01
2/25/2025		0.01	0.0032 (J)	0.0069 (J)	0.017	0.0086 (J)	<0.01	<0.01	<0.01

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (bg)
6/1/2016	
6/2/2016	<0.01
7/25/2016	
7/26/2016	<0.01
8/31/2016	
9/13/2016	
9/14/2016	
9/15/2016	<0.01
11/1/2016	
11/2/2016	<0.01
11/4/2016	
11/28/2016	
12/15/2016	
1/10/2017	<0.01
1/11/2017	
1/12/2017	
1/13/2017	
1/16/2017	
2/22/2017	
3/1/2017	
3/2/2017	
3/3/2017	
3/6/2017	
3/7/2017	
3/8/2017	<0.01
4/26/2017	<0.01
4/27/2017	
4/28/2017	
5/1/2017	
5/2/2017	
5/8/2017	
5/26/2017	
6/27/2017	
6/28/2017	
6/29/2017	
6/30/2017	<0.01
7/17/2017	
10/16/2017	
2/19/2018	
3/27/2018	<0.01
3/28/2018	
3/29/2018	
6/5/2018	
6/6/2018	
6/7/2018	
6/8/2018	<0.01
8/6/2018	
10/1/2018	<0.01
2/26/2019	<0.01
2/27/2019	
3/4/2019	
3/28/2019	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (bg)
3/29/2019	<0.01
4/1/2019	
8/19/2019	
9/24/2019	
9/25/2019	<0.01
2/10/2020	
2/11/2020	
2/12/2020	<0.01
3/18/2020	<0.01
3/19/2020	
3/24/2020	
3/25/2020	
8/26/2020	
9/22/2020	
9/23/2020	
9/25/2020	<0.01
2/8/2021	
2/9/2021	
2/10/2021	<0.01
2/12/2021	
3/2/2021	<0.01
3/3/2021	
8/19/2021	<0.01
8/20/2021	
8/26/2021	
8/27/2021	
2/8/2022	
2/9/2022	
2/10/2022	<0.01
2/11/2022	
8/30/2022	
8/31/2022	<0.01
2/7/2023	
2/8/2023	<0.01
2/9/2023	
8/15/2023	<0.01
8/16/2023	
2/20/2024	
2/23/2024	<0.01
8/20/2024	<0.01
2/25/2025	<0.01

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)
6/2/2016						<0.01			
6/6/2016		<0.01	<0.01						
6/7/2016	<0.01			<0.01	<0.01				
7/25/2016						<0.01			
7/27/2016	<0.01	<0.01	<0.01	<0.01					
7/28/2016					<0.01				
8/30/2016									<0.01
9/16/2016	<0.01		<0.01						
9/19/2016		<0.01		<0.01	<0.01	<0.01			
11/1/2016						<0.01			
11/2/2016				<0.01					
11/3/2016	<0.01	<0.01	<0.01		<0.01				
11/14/2016									<0.01
1/11/2017	<0.01	<0.01	<0.01						
1/13/2017				<0.01	<0.01				
1/16/2017						<0.01			
2/21/2017						<0.01			
2/24/2017									<0.01
3/1/2017		<0.01	<0.01						
3/2/2017	<0.01								
3/6/2017				<0.01	0.0007 (J)				
4/26/2017		<0.01	<0.01	<0.01	0.0008 (J)	<0.01			
5/2/2017	<0.01								
5/8/2017									<0.01
6/28/2017		<0.01	<0.01						
6/29/2017	<0.01			<0.01	<0.01				
6/30/2017						<0.01			
7/11/2017									<0.01
10/10/2017									<0.01
10/11/2017							0.0094 (J)		
10/12/2017								<0.01	
11/20/2017							0.0081 (J)	<0.01	
1/10/2018								<0.01	
1/11/2018							0.0074 (J)		
1/12/2018									
2/19/2018								<0.01	
2/20/2018							<0.01		
3/27/2018						<0.01			
3/28/2018	<0.01	<0.01	<0.01						
3/29/2018				<0.01	<0.01				
4/2/2018									<0.01
4/3/2018							0.006 (J)	<0.01	
6/11/2018						<0.01			
6/28/2018							0.005 (J)	<0.01	
8/7/2018							0.0045 (J)	<0.01	
9/19/2018									<0.01
9/24/2018							0.0035 (J)	<0.01	
10/2/2018						<0.01			
2/26/2019						<0.01			
3/5/2019	<0.01		<0.01	<0.01	<0.01				
3/6/2019		<0.01							
4/1/2019						<0.01			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)
8/20/2019									<0.01
8/21/2019							0.0021 (J)	<0.01	
8/22/2019									
9/25/2019						<0.01			
10/8/2019									<0.01
10/9/2019							0.0018 (J)	<0.01	
2/11/2020	<0.01	<0.01	<0.01						
2/12/2020				<0.01	<0.01	<0.01	0.0025 (J)	<0.01	
2/14/2020									
3/17/2020									<0.01
3/19/2020						<0.01			
3/24/2020	<0.01	<0.01	<0.01	<0.01	<0.01			<0.01	
3/25/2020							0.002 (J)		
8/27/2020									<0.01
9/22/2020									<0.01
9/23/2020	<0.01	<0.01	<0.01						
9/24/2020				<0.01	<0.01	<0.01	0.0016 (J)	<0.01	
9/25/2020									
2/9/2021	<0.01	<0.01	<0.01	<0.01	<0.01				
2/10/2021							0.0013 (J)	<0.01	
2/11/2021						<0.01			
3/1/2021						<0.01			<0.01
3/3/2021	<0.01	<0.01	<0.01	<0.01					
3/4/2021					<0.01		0.0014 (J)	<0.01	
8/19/2021						<0.01			<0.01
8/26/2021			<0.01				0.0027 (J)		
8/27/2021	<0.01	<0.01		<0.01					
9/1/2021					<0.01				
9/3/2021								<0.01	
2/8/2022							0.0035 (J)	<0.01	<0.01
2/9/2022	<0.01	<0.01	<0.01	<0.01	<0.01				
2/10/2022									
2/11/2022						<0.01			
8/30/2022	<0.01	<0.01	<0.01		<0.01				
8/31/2022				<0.01		<0.01	0.0036 (J)	<0.01	<0.01
9/1/2022									
2/7/2023	<0.01	<0.01	<0.01	<0.01	<0.01		0.0045 (J)		
2/8/2023						<0.01		<0.01	<0.01
8/15/2023	<0.01	<0.01	<0.01	<0.01	<0.01		0.0061 (J)	<0.01	<0.01
8/16/2023						<0.01			
2/20/2024	<0.01	<0.01		<0.01	<0.01	<0.01	0.0058 (J)	<0.01	<0.01
2/22/2024									
2/23/2024			<0.01						
8/20/2024	<0.01	<0.01		<0.01	<0.01	<0.01			<0.01
8/21/2024			<0.01				0.0068 (J)	<0.01	
8/23/2024									
2/25/2025	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0056 (J)	<0.01	<0.01
2/26/2025									

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38
6/2/2016	
6/6/2016	
6/7/2016	
7/25/2016	
7/27/2016	
7/28/2016	
8/30/2016	
9/16/2016	
9/19/2016	
11/1/2016	
11/2/2016	
11/3/2016	
11/14/2016	
1/11/2017	
1/13/2017	
1/16/2017	
2/21/2017	
2/24/2017	
3/1/2017	
3/2/2017	
3/6/2017	
4/26/2017	
5/2/2017	
5/8/2017	
6/28/2017	
6/29/2017	
6/30/2017	
7/11/2017	
10/10/2017	
10/11/2017	
10/12/2017	<0.01
11/20/2017	<0.01
1/10/2018	
1/11/2018	
1/12/2018	<0.01
2/19/2018	
2/20/2018	<0.01
3/27/2018	
3/28/2018	
3/29/2018	
4/2/2018	
4/3/2018	<0.01
6/11/2018	
6/28/2018	<0.01
8/7/2018	<0.01
9/19/2018	
9/24/2018	<0.01
10/2/2018	
2/26/2019	
3/5/2019	
3/6/2019	
4/1/2019	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38
8/20/2019	
8/21/2019	
8/22/2019	<0.01
9/25/2019	
10/8/2019	
10/9/2019	<0.01
2/11/2020	
2/12/2020	
2/14/2020	<0.01
3/17/2020	
3/19/2020	
3/24/2020	
3/25/2020	<0.01
8/27/2020	
9/22/2020	
9/23/2020	
9/24/2020	
9/25/2020	<0.01
2/9/2021	<0.01
2/10/2021	
2/11/2021	
3/1/2021	
3/3/2021	
3/4/2021	<0.01
8/19/2021	
8/26/2021	<0.01
8/27/2021	
9/1/2021	
9/3/2021	
2/8/2022	
2/9/2022	
2/10/2022	<0.01
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	<0.01
2/7/2023	
2/8/2023	<0.01
8/15/2023	
8/16/2023	<0.01
2/20/2024	
2/22/2024	<0.01
2/23/2024	
8/20/2024	
8/21/2024	
8/23/2024	<0.01
2/25/2025	
2/26/2025	<0.01

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-41	YGWC-23S	YGWC-24SB	YGWC-36A	YGWC-42	YGWC-43	YGWC-49	YGWC-50	YAMW-1
6/7/2016		<0.01							
6/8/2016			<0.01						
7/28/2016		<0.01							
8/1/2016			<0.01						
8/30/2016					0.0019 (J)				
8/31/2016						0.0022 (J)			
9/1/2016							<0.01		
9/2/2016				0.0027 (J)					
9/20/2016		<0.01	<0.01						
11/8/2016		<0.01	<0.01						
11/14/2016				0.0071 (J)					
11/15/2016							<0.01		
11/16/2016					0.0027 (J)	<0.01			
1/16/2017		<0.01							
1/17/2017			<0.01						
2/24/2017						<0.01			
2/27/2017					0.0031 (J)		0.0007 (J)		
2/28/2017				0.0038 (J)					
3/8/2017			<0.01						
3/9/2017		<0.01							
5/2/2017		<0.01	<0.01						
5/9/2017				0.0025 (J)			<0.01		
5/10/2017					0.0017 (J)	<0.01			
7/7/2017			<0.01						
7/10/2017		<0.01							
7/11/2017					0.0014 (J)	<0.01			
7/13/2017				0.0014 (J)			<0.01		
9/22/2017				<0.01					
9/29/2017				<0.01					
10/6/2017				<0.01					
10/11/2017							<0.01		
10/12/2017	<0.01				<0.01	<0.01			
11/21/2017	<0.01								
1/11/2018	<0.01								
2/19/2018	<0.01								
3/30/2018		<0.01	<0.01	<0.01					
4/3/2018	<0.01								
4/4/2018					<0.01	<0.01	<0.01		
6/27/2018	<0.01								
8/7/2018	<0.01								
9/20/2018					<0.01	<0.01	<0.01		
9/24/2018	<0.01								
3/5/2019			<0.01						
3/6/2019		<0.01		<0.01					
8/21/2019						0.0012 (J)			
8/22/2019	<0.01				<0.01				
10/9/2019	<0.01				<0.01	0.0012 (J)			
2/13/2020			<0.01						
2/14/2020	<0.01			<0.01	<0.01				
2/17/2020		<0.01				<0.01	<0.01		
3/25/2020	<0.01			<0.01	<0.01	0.0015 (J)	<0.01		<0.01
3/26/2020		<0.01	<0.01						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-41	YGWC-23S	YGWC-24SB	YGWC-36A	YGWC-42	YGWC-43	YGWC-49	YGWC-50	YAMW-1
9/23/2020			<0.01						
9/24/2020		<0.01			0.00091 (J)		<0.01		0.0022 (J)
9/25/2020	<0.01					0.0011 (J)			
10/7/2020				0.0015 (J)					
2/9/2021		<0.01	<0.01			0.0012 (J)	<0.01		0.0038 (J)
2/10/2021	<0.01			<0.01	0.00094 (J)				
3/3/2021			<0.01						0.0037 (J)
3/4/2021	<0.01	<0.01		<0.01	0.00085 (J)	0.0011 (J)	<0.01		
8/25/2021		<0.01			0.00078 (J)				
8/26/2021	<0.01								
9/1/2021			<0.01				<0.01		0.0014 (J)
9/3/2021				<0.01					
9/27/2021						0.0062 (J)			
2/8/2022	<0.01					0.002 (J)	<0.01		
2/10/2022		<0.01	<0.01		0.0008 (J)				0.00089 (J)
2/11/2022				<0.01					
8/31/2022							<0.01		<0.01
9/1/2022	<0.01	<0.01		<0.01	0.00079 (J)	0.0014 (J)			
2/8/2023	<0.01	<0.01			0.00081 (J)	0.0016 (J)			
2/9/2023				<0.01			<0.01		<0.01
2/10/2023			<0.01						
8/16/2023	<0.01	<0.01	<0.01	<0.01	0.00096 (J)	0.0019 (J)	<0.01		<0.01
8/17/2023								<0.01	
12/20/2023								<0.01	
2/21/2024		<0.01					<0.01		
2/22/2024	<0.01				0.00075 (J)	0.0016 (J)		<0.01	
2/23/2024			<0.01	<0.01					<0.01
6/10/2024								<0.01	
8/21/2024		0.0016 (J)							
8/22/2024			<0.01	<0.01	0.00071 (J)	0.0013 (J)	<0.01		<0.01
8/23/2024	0.0019 (J)							<0.01	
11/26/2024								<0.01	
2/26/2025	<0.01			<0.01	<0.01		<0.01	<0.01	<0.01
2/27/2025		<0.01				<0.01			
3/17/2025			<0.01						
5/21/2025								<0.01	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-2
6/7/2016	
6/8/2016	
7/28/2016	
8/1/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/20/2016	
11/8/2016	
11/14/2016	
11/15/2016	
11/16/2016	
1/16/2017	
1/17/2017	
2/24/2017	
2/27/2017	
2/28/2017	
3/8/2017	
3/9/2017	
5/2/2017	
5/9/2017	
5/10/2017	
7/7/2017	
7/10/2017	
7/11/2017	
7/13/2017	
9/22/2017	
9/29/2017	
10/6/2017	
10/11/2017	
10/12/2017	
11/21/2017	
1/11/2018	
2/19/2018	
3/30/2018	
4/3/2018	
4/4/2018	
6/27/2018	
8/7/2018	
9/20/2018	
9/24/2018	
3/5/2019	
3/6/2019	
8/21/2019	
8/22/2019	
10/9/2019	
2/13/2020	
2/14/2020	
2/17/2020	
3/25/2020	
3/26/2020	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-2
9/23/2020	<0.01
9/24/2020	
9/25/2020	
10/7/2020	
2/9/2021	<0.01
2/10/2021	
3/3/2021	<0.01
3/4/2021	
8/25/2021	
8/26/2021	
9/1/2021	<0.01
9/3/2021	
9/27/2021	
2/8/2022	
2/10/2022	<0.01
2/11/2022	
8/31/2022	
9/1/2022	<0.01
2/8/2023	<0.01
2/9/2023	
2/10/2023	
8/16/2023	
8/17/2023	<0.01
12/20/2023	
2/21/2024	
2/22/2024	<0.01
2/23/2024	
6/10/2024	
8/21/2024	0.0017 (J)
8/22/2024	
8/23/2024	
11/26/2024	
2/26/2025	<0.01
2/27/2025	
3/17/2025	
5/21/2025	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-3	YAMW-4	YAMW-5	PZ-35	PZ-37D	PZ-37	PZ-51	PZ-52D	PZ-54D
10/12/2017						0.0022 (J)			
11/21/2017						0.0016 (J)			
1/11/2018						0.0015 (J)			
2/20/2018						<0.01			
4/3/2018						<0.01			
6/29/2018						0.0021 (J)			
8/6/2018						<0.01			
9/24/2018						<0.01			
3/25/2020				0.0019 (J)					
9/23/2020		0.0068 (J)							
9/24/2020			<0.01	<0.01					
9/25/2020						0.0016 (J)			
2/9/2021		0.0068 (J)	<0.01			0.0016 (J)			
2/10/2021				<0.01					
3/3/2021		0.0049 (J)							
3/4/2021			<0.01	<0.01		0.0024 (J)			
5/13/2021					0.0042 (J)				
8/25/2021		0.0081 (J)				0.0011 (J)			
8/26/2021			<0.01						
9/1/2021				<0.01					
9/3/2021					0.0018 (J)				
11/4/2021								0.012	
2/10/2022	0.0036 (J)	0.0076 (J)	<0.01	<0.01		<0.01	<0.01		
2/11/2022					0.0037 (J)			0.011	
4/4/2022						<0.01			
4/7/2022						<0.01			
8/31/2022				<0.01					
9/1/2022	0.0057 (J)	0.0074 (J)	<0.01		0.0059 (J)	<0.01	<0.01	0.0084 (J)	
2/8/2023		0.0076 (J)	<0.01		0.0024 (J)	<0.01		0.005 (J)	
2/9/2023	0.0067 (J)			<0.01			<0.01		
8/16/2023	0.0084 (J)	0.0074 (J)	<0.01	<0.01	0.004 (J)		<0.01		
8/17/2023						<0.01		0.003 (J)	
2/21/2024	0.0041 (J)				0.004 (J)	<0.01		0.0025 (J)	
2/22/2024		0.0071 (J)	<0.01				<0.01		
2/23/2024				<0.01					
6/12/2024									0.064
8/21/2024					0.008 (J)	<0.01		0.0021 (J)	
8/22/2024	0.0047 (J)			<0.01			<0.01		
8/23/2024		0.0074 (J)	<0.01						
11/7/2024									0.017
2/25/2025				<0.01					
2/26/2025	0.0046 (J)	0.0075 (J)							
2/27/2025			<0.01		0.0043 (J)	<0.01	<0.01	0.0079 (J)	0.017

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	PZ-55
10/12/2017	
11/21/2017	
1/11/2018	
2/20/2018	
4/3/2018	
6/29/2018	
8/6/2018	
9/24/2018	
3/25/2020	
9/23/2020	
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	
3/3/2021	
3/4/2021	
5/13/2021	
8/25/2021	
8/26/2021	
9/1/2021	
9/3/2021	
11/4/2021	
2/10/2022	
2/11/2022	
4/4/2022	
4/7/2022	
8/31/2022	
9/1/2022	
2/8/2023	
2/9/2023	
8/16/2023	
8/17/2023	
2/21/2024	
2/22/2024	0.00082 (J)
2/23/2024	
6/12/2024	
8/21/2024	0.0016 (J)
8/22/2024	
8/23/2024	
11/7/2024	
2/25/2025	
2/26/2025	
2/27/2025	<0.01

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: pH, Field (SU) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
8/27/2008	6.53								
3/3/2009	6.35								
11/18/2009	6.47								
3/3/2010	6.53								
3/10/2011	5.83								
9/8/2011	5.69								
3/5/2012	6.27								
9/10/2012	6.23								
2/6/2013	7.56								
8/12/2013	6.68								
2/5/2014	6.32								
8/3/2015	6.13								
2/16/2016	5.64								
6/1/2016		7.46	6.33			7.72			
6/2/2016					7.84		6.36	7.67	5.75
7/25/2016			6.21			7.74			
7/26/2016		7.43			7.88		6.22	7.66	5.72
8/31/2016	6.32								
9/13/2016		7.44	6.16	7.41					
9/14/2016						7.65	6.23	7.6	5.74
9/15/2016					7.74				
11/1/2016		7.24			7.75	7.7			
11/2/2016							6.08	7.35	
11/4/2016			6.29	7.12					5.61
11/28/2016	6.23								
12/15/2016				7.24					
1/10/2017									
1/11/2017		7.3			7.66	7.53			
1/12/2017								7.49	5.71
1/13/2017							6.19		
1/16/2017			6.29	7.24					
2/22/2017	6.21								
3/1/2017						7.42			
3/2/2017		7.23	6.28		7.68				
3/3/2017				7.22					
3/6/2017							6.2		
3/7/2017								7.43	5.66
3/8/2017									
4/26/2017					7.45	7.4			
4/27/2017		6.99	6.09						
4/28/2017				7.21					
5/1/2017							6.21	7.22	
5/2/2017									5.65
5/8/2017	6.12								
5/26/2017				7.13					
6/27/2017		6.87	6.21					7.32	5.7
6/28/2017				7.06	7.65	7.5			
6/29/2017							6.21		
6/30/2017									
7/17/2017	6.03								
10/3/2017		6.81	5.98	6.99				7.48	5.79
10/4/2017					7.49	7.45			

Time Series

Constituent: pH, Field (SU) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
10/5/2017							6.16		
10/16/2017	6.12								
2/19/2018	6.13								
3/27/2018			6.25						
3/28/2018				7.3	7.91	7.74			
3/29/2018		7.38					6.09	7.02	5.63
6/5/2018		7.16							
6/6/2018			6.17					7.43	
6/7/2018				7.29	7.69		6.12		5.63
6/8/2018						7.64			
8/6/2018	6.01								
9/26/2018							5.84	7.13	5.63
10/1/2018		6.8	5.9	7.07	7.39	7.47			
2/25/2019	6.51								
2/26/2019									
2/27/2019		6.84	5.8	7.27	7.55	7.54			
3/4/2019							6.18	7.46	5.75
3/28/2019		6.99	6.15						
3/29/2019				7.06					
4/1/2019					7.87	7.74			
4/3/2019							6.43	7.11	5.63
6/12/2019	6.3								
8/19/2019	6.23								
9/24/2019		7.07	6.23	7.01				6.93	5.6
9/25/2019					7.64	7.47	6.2		
10/8/2019	6.28								
2/10/2020		7.2	6.1						
2/11/2020				7.38		7.09			
2/12/2020					7.83		6.15	7.52	5.83
3/17/2020	6.14								
3/18/2020			6.19						
3/19/2020		7.03		7.22	7.65	7.31			
3/24/2020								7.34	5.81
3/25/2020							6.26		
5/6/2020	6.24								
8/26/2020	5.67								
9/22/2020	5.78						5.8	7.19	5.99
9/23/2020		7.15	6.01	7.22	7.57	7.37			
9/25/2020									
2/8/2021								7.66	5.67
2/9/2021							6.06		
2/10/2021				7.29	7.81	7.58			
2/12/2021		7.14	6.21						
3/2/2021	5.42							7.15	5.63
3/3/2021		7.2	5.38	7.92	8.39	8.13	6.21		
8/19/2021		6.32	6.38		5.34				
8/20/2021	5.86								
8/26/2021							5.82	7.16	5.51
8/27/2021				7.16		7.39			
2/8/2022	5.83								
2/9/2022		7.12	6.24	5.86	7.97	7.66			
2/10/2022								6.99	5.14

Time Series

Constituent: pH, Field (SU) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
2/11/2022							5.95		
8/30/2022	5.39	7.2		7.04				7.4	5
8/31/2022			5.64		7.65	7.49	5.5		
2/7/2023	5.94	7.86	6.53	6.94				6.64	
2/8/2023					7.88	7.73			
2/9/2023							6.23		5.9
8/15/2023	5.3	6.98	5.88	6.96	7.69		5.99	7.34	5.58
8/16/2023						7.39			
2/20/2024	6.07	7.06	6.42	7.23	7.81	7.59	6.21	7.56	5.78
2/23/2024									
8/20/2024		7.18	5.77	6.91	7.59	7.45	6.03	7.3	5.58
2/25/2025		7.18	6.02	7.14	7.79	7.55	5.98	7.4	5.77

Time Series

Constituent: pH, Field (SU) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (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	
6/2/2016	5.46
7/25/2016	
7/26/2016	5.45
8/31/2016	
9/13/2016	
9/14/2016	
9/15/2016	5.45
11/1/2016	
11/2/2016	5.41
11/4/2016	
11/28/2016	
12/15/2016	
1/10/2017	5.37
1/11/2017	
1/12/2017	
1/13/2017	
1/16/2017	
2/22/2017	
3/1/2017	
3/2/2017	
3/3/2017	
3/6/2017	
3/7/2017	
3/8/2017	5.41
4/26/2017	5.02
4/27/2017	
4/28/2017	
5/1/2017	
5/2/2017	
5/8/2017	
5/26/2017	
6/27/2017	
6/28/2017	
6/29/2017	
6/30/2017	5.39
7/17/2017	
10/3/2017	
10/4/2017	

Time Series

Constituent: pH, Field (SU) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (bg)
10/5/2017	5.49
10/16/2017	
2/19/2018	
3/27/2018	5.47
3/28/2018	
3/29/2018	
6/5/2018	
6/6/2018	
6/7/2018	
6/8/2018	5.45
8/6/2018	
9/26/2018	
10/1/2018	5.39
2/25/2019	
2/26/2019	5.46
2/27/2019	
3/4/2019	
3/28/2019	
3/29/2019	5.34
4/1/2019	
4/3/2019	
6/12/2019	
8/19/2019	
9/24/2019	
9/25/2019	5.19
10/8/2019	
2/10/2020	
2/11/2020	
2/12/2020	5.48
3/17/2020	
3/18/2020	5.38
3/19/2020	
3/24/2020	
3/25/2020	
5/6/2020	
8/26/2020	
9/22/2020	
9/23/2020	
9/25/2020	5.44
2/8/2021	
2/9/2021	
2/10/2021	5.35
2/12/2021	
3/2/2021	5.49
3/3/2021	
8/19/2021	7.32
8/20/2021	
8/26/2021	
8/27/2021	
2/8/2022	
2/9/2022	
2/10/2022	4.5

Time Series

Constituent: pH, Field (SU) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (bg)
2/11/2022	
8/30/2022	
8/31/2022	5.15
2/7/2023	
2/8/2023	5.39
2/9/2023	
8/15/2023	5.03
8/16/2023	
2/20/2024	
2/23/2024	5.39
8/20/2024	5.49
2/25/2025	5.16

Time Series

Constituent: pH, Field (SU) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)
6/2/2016						5.75			
6/6/2016		6.17	5.71						
6/7/2016	5.62			5.77	6.1				
7/25/2016						5.82			
7/27/2016	5.59	6.14	5.46	5.79					
7/28/2016					6.12				
8/30/2016									5.75
9/16/2016	5.58								
9/19/2016		6.04	5.59	5.73	6.12	5.78			
11/1/2016						5.62			
11/2/2016				5.67					
11/3/2016	5.59	5.97	5.39		6.07				
11/14/2016									5.59
1/11/2017	5.59	6.05	5.48						
1/13/2017				5.79	6.41				
1/16/2017						5.72			
2/21/2017						5.67			
2/24/2017									5.49
3/1/2017		5.94	5.41						
3/2/2017	5.54								
3/6/2017				5.63	6.34				
4/26/2017		5.99	5.4	5.66	6.32	5.56			
5/2/2017	5.47								
5/8/2017									5.58
6/28/2017		6	5.36						
6/29/2017	5.56			5.85	6.47				
6/30/2017						5.72			
7/11/2017									5.58
10/3/2017					6.56				
10/4/2017	5.57		5.32	5.83		5.87			
10/5/2017		6.11							
10/10/2017									5.49
10/11/2017							6.4		
10/12/2017								5.43	
11/20/2017							6.33	5.1	
1/10/2018								4.97	
1/11/2018							6.29		
1/12/2018									
2/19/2018								5.6	
2/20/2018							7.22		
3/27/2018						5.83			
3/28/2018	5.59	6.1	5.34						
3/29/2018				5.93	6.75				
4/2/2018									6.3
4/3/2018							6.87	5.84	
6/5/2018					6.09				
6/6/2018				5.86					
6/7/2018		5.98							
6/11/2018	5.58		5.28			5.69			
6/28/2018							6.18	5.24	
8/7/2018							6.08	5.18	
9/19/2018									5.48

Time Series

Constituent: pH, Field (SU) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)
9/24/2018							5.81	5.14	
9/25/2018	5.59	5.81	4.86	5.84	6.67				
10/2/2018						5.39			
2/26/2019						5.77			
3/5/2019	5.48		5.26	6.07	7.22				
3/6/2019		5.99							
3/26/2019								5.3	
3/27/2019							5.84		5.83
4/1/2019						5.62			
4/2/2019	5.74				6.94				
4/3/2019		6.29	5.47	5.71					
8/20/2019									5.58
8/21/2019							5.96	5.26	
8/22/2019									
9/24/2019					6.87				
9/25/2019	5.49			5.86		5.69			
9/26/2019		6.04	5.2						
10/8/2019									5.59
10/9/2019							5.81	5.22	
2/11/2020	5.58	6.07	5.3						
2/12/2020				6	7.13	5.8	5.97	5.3	
2/14/2020									
3/17/2020									5.57
3/19/2020						6			
3/24/2020	5.57	5.98	5.33	5.86	6.35			5.29	
3/25/2020							5.78		
8/27/2020									4.88
9/22/2020									5.46
9/23/2020	5.58	6.01	5.29						
9/24/2020				5.8	6.7	5.67	5.7	5.43	
9/25/2020									
2/9/2021	5.62	6.12	5.43	5.86	6.95				
2/10/2021							5.8	5.19	
2/11/2021						5.73			
3/1/2021						5.78			5.48
3/3/2021	5.52	5.89	5.31	5.89					
3/4/2021					6.8		5.54	5.23	
8/19/2021						5.43			5.5
8/26/2021			4.4				6.91		
8/27/2021	5.27	5.4		5.57					
9/1/2021					6.65				
9/3/2021								5.01	
2/8/2022							5.78	5.26	5.4
2/9/2022	5.53	5.98	5.28	5.91	6.84				
2/10/2022									
2/11/2022						5.59			
8/30/2022	4.68	5.89	5.18		6.58				
8/31/2022				5.38		5.87	5.3	4.53	5.32
9/1/2022									
2/7/2023	5.47	6	5.03	5.63	6.82		5.49		
2/8/2023						6.43		5.71	5.22
8/15/2023	5.54	5.82	5.2	7	6.84		5.78	5	5.69

Time Series

Constituent: pH, Field (SU) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)
8/16/2023						5.55			
2/20/2024	5.64	6.11		5.99	6.78	5.81	5.97	5.32	5.62
2/22/2024									
2/23/2024			5.3						
8/20/2024	5.45	5.74		6	6.6	6.07			5.48
8/21/2024			5.29				6	5.38	
8/23/2024									
2/25/2025	5.59	6	6.26	6.07	6.55	5.45	5.81	5.07	5.52
2/26/2025									

Time Series

Constituent: pH, Field (SU) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38
6/2/2016	
6/6/2016	
6/7/2016	
7/25/2016	
7/27/2016	
7/28/2016	
8/30/2016	
9/16/2016	
9/19/2016	
11/1/2016	
11/2/2016	
11/3/2016	
11/14/2016	
1/11/2017	
1/13/2017	
1/16/2017	
2/21/2017	
2/24/2017	
3/1/2017	
3/2/2017	
3/6/2017	
4/26/2017	
5/2/2017	
5/8/2017	
6/28/2017	
6/29/2017	
6/30/2017	
7/11/2017	
10/3/2017	
10/4/2017	
10/5/2017	
10/10/2017	
10/11/2017	
10/12/2017	4.85
11/20/2017	4.87
1/10/2018	
1/11/2018	
1/12/2018	4.78
2/19/2018	
2/20/2018	5.1
3/27/2018	
3/28/2018	
3/29/2018	
4/2/2018	
4/3/2018	4.76
6/5/2018	
6/6/2018	
6/7/2018	
6/11/2018	
6/28/2018	4.75
8/7/2018	4.72
9/19/2018	

Time Series

Constituent: pH, Field (SU) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38
9/24/2018	4.67
9/25/2018	
10/2/2018	
2/26/2019	
3/5/2019	
3/6/2019	
3/26/2019	
3/27/2019	4.79
4/1/2019	
4/2/2019	
4/3/2019	
8/20/2019	
8/21/2019	
8/22/2019	4.81
9/24/2019	
9/25/2019	
9/26/2019	
10/8/2019	
10/9/2019	4.8
2/11/2020	
2/12/2020	
2/14/2020	4.84
3/17/2020	
3/19/2020	
3/24/2020	
3/25/2020	4.89
8/27/2020	
9/22/2020	
9/23/2020	
9/24/2020	
9/25/2020	4.9
2/9/2021	5.04
2/10/2021	
2/11/2021	
3/1/2021	
3/3/2021	
3/4/2021	5.01
8/19/2021	
8/26/2021	4.54
8/27/2021	
9/1/2021	
9/3/2021	
2/8/2022	
2/9/2022	
2/10/2022	4.85
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	4.91
2/7/2023	
2/8/2023	5.16
8/15/2023	

Time Series

Constituent: pH, Field (SU) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38
8/16/2023	4.83
2/20/2024	
2/22/2024	5.03
2/23/2024	
8/20/2024	
8/21/2024	
8/23/2024	5.11
2/25/2025	
2/26/2025	5.08

Time Series

Constituent: pH, Field (SU) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-41	YGWC-23S	YGWC-24SB	YGWC-36A	YGWC-42	YGWC-43	YGWC-49	YGWC-50	YAMW-1
6/7/2016		5.57							
6/8/2016			5.65						
7/28/2016		5.6							
8/1/2016			5.47						
8/30/2016					5.64				
8/31/2016						7.27			
9/1/2016							5.78		
9/2/2016				5.84					
9/20/2016		5.53	5.61						
11/8/2016		5.53	5.55						
11/14/2016				6.28					
11/15/2016							5.81		
11/16/2016					6.21	6.79			
1/16/2017		5.59							
1/17/2017			5.53						
2/24/2017						6.39			
2/27/2017					6.09		5.68		
2/28/2017				5.99					
3/8/2017			5.62						
3/9/2017		5.56							
5/2/2017		5.61	5.46						
5/9/2017				6.3			6.18		
5/10/2017					5.79	6.5			
7/7/2017			5.81						
7/10/2017		5.68							
7/11/2017					5.45	6.32			
7/13/2017				5.57			5.6		
9/22/2017				5.5					
9/29/2017				5.58					
10/5/2017			5.45 (D)						
10/6/2017				5.51					
10/11/2017		5.46		5.47			5.61		
10/12/2017	4.94				5.48	5.97			
11/21/2017	4.69								
1/11/2018	4.73								
2/19/2018	4.96								
3/30/2018		5.73	5.64 (D)	5.51					
4/3/2018	5.31								
4/4/2018					5.93	6.41	5.98		
6/12/2018		5.63	5.64 (D)						
6/13/2018				5.5					
6/27/2018	4.78								
8/7/2018	4.77								
9/20/2018					5.63	5.69	5.67		
9/24/2018	4.78								
9/26/2018			5.61 (D)	5.53					
9/27/2018		5.47							
3/5/2019			5.72 (D)						
3/6/2019		5.84		5.21					
3/27/2019					5.57				
3/28/2019	5					5.96	5.86		
4/4/2019		5.64	5.66 (D)	5.74					

Time Series

Constituent: pH, Field (SU) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-41	YGWC-23S	YGWC-24SB	YGWC-36A	YGWC-42	YGWC-43	YGWC-49	YGWC-50	YAMW-1
8/21/2019						5.84			
8/22/2019	4.89				5.61				
9/26/2019			5.52 (D)	5.51			5.6		
9/27/2019		5.77							
10/9/2019	4.86				5.5	5.78			
1/3/2020									5.78
1/15/2020									
2/13/2020			5.69						
2/14/2020	4.84			5.71	5.8				
2/17/2020		5.84				5.93	5.82		
3/25/2020	4.87			5.49	5.53	5.79	5.69		6.13
3/26/2020		5.69	5.51 (D)						
9/23/2020			5.64						
9/24/2020		5.51			5.55		5.62		6
9/25/2020	4.95					5.75			
10/7/2020				5.86					
2/9/2021		5.61	5.69			5.86	5.79		6.42
2/10/2021	4.98			6.31	5.88				
3/3/2021			5.7						6.54
3/4/2021	4.69	5.44		5.67	5.59	5.88	5.88		
8/25/2021		5.46			6.73				
8/26/2021	6.77								
9/1/2021			5.22				5.15		5.97
9/3/2021				5.06					
9/27/2021						6.08			
2/8/2022	5.07					5.82	5.79		
2/10/2022		5.51	4.66 (D)		5.57				5.8
2/11/2022				5.58					
8/31/2022							5.34		5.64
9/1/2022	4.43	5.27		5.18	5.49	5.62			
2/8/2023	4.69	5.33			5.48	5.4			
2/9/2023				5.67			5.61		5.73
2/10/2023			5.67						
8/16/2023	5.01	5.36	5.89	5.36	5.53	5.58	5.04		5.8
8/17/2023								5	
12/20/2023								4.63	
2/21/2024		5.43					5.29		
2/22/2024	4.84				5.61	5.81		5	
2/23/2024			5.62	5.2					5.5
6/10/2024								4.86	
8/21/2024		5.4							
8/22/2024			5.16	4.82	5.52	5.61	5.72		5.44
8/23/2024	5.18							4.97	
2/26/2025	4.77			5.13	5.42		5.75	5	5.4
2/27/2025		5.5				5.65			
3/17/2025			5.65						

Time Series

Constituent: pH, Field (SU) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-2
6/7/2016	
6/8/2016	
7/28/2016	
8/1/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/20/2016	
11/8/2016	
11/14/2016	
11/15/2016	
11/16/2016	
1/16/2017	
1/17/2017	
2/24/2017	
2/27/2017	
2/28/2017	
3/8/2017	
3/9/2017	
5/2/2017	
5/9/2017	
5/10/2017	
7/7/2017	
7/10/2017	
7/11/2017	
7/13/2017	
9/22/2017	
9/29/2017	
10/5/2017	
10/6/2017	
10/11/2017	
10/12/2017	
11/21/2017	
1/11/2018	
2/19/2018	
3/30/2018	
4/3/2018	
4/4/2018	
6/12/2018	
6/13/2018	
6/27/2018	
8/7/2018	
9/20/2018	
9/24/2018	
9/26/2018	
9/27/2018	
3/5/2019	
3/6/2019	
3/27/2019	
3/28/2019	
4/4/2019	

Time Series

Constituent: pH, Field (SU) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-2
8/21/2019	
8/22/2019	
9/26/2019	
9/27/2019	
10/9/2019	
1/3/2020	
1/15/2020	6.25
2/13/2020	
2/14/2020	
2/17/2020	
3/25/2020	
3/26/2020	
9/23/2020	5.66
9/24/2020	
9/25/2020	
10/7/2020	
2/9/2021	5.81
2/10/2021	
3/3/2021	5.67
3/4/2021	
8/25/2021	
8/26/2021	
9/1/2021	6.67
9/3/2021	
9/27/2021	
2/8/2022	
2/10/2022	5.64
2/11/2022	
8/31/2022	
9/1/2022	4.98
2/8/2023	5.95
2/9/2023	
2/10/2023	
8/16/2023	
8/17/2023	4.77
12/20/2023	
2/21/2024	
2/22/2024	5.42
2/23/2024	
6/10/2024	
8/21/2024	5.5
8/22/2024	
8/23/2024	
2/26/2025	5.41
2/27/2025	
3/17/2025	

Time Series

Constituent: pH, Field (SU) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-3	YAMW-4	YAMW-5	PZ-35	PZ-37D	PZ-37	PZ-51	PZ-52D	PZ-54D
10/12/2017						5.57			
11/21/2017						5.49			
1/11/2018						5.87			
2/20/2018						5.9			
4/3/2018						5.66			
6/29/2018						5.49			
8/6/2018						5.52			
9/24/2018						5.37			
1/15/2020			5.64						
1/16/2020	6.67	6.47							
2/11/2020	6.62		5.37						
3/25/2020				5.65					
9/23/2020		5.89							
9/24/2020			5.38	5.52					
9/25/2020						5.46			
2/9/2021		6.96	5.34			5.42			
2/10/2021				5.53					
3/3/2021		6.8							
3/4/2021			5.32	5.64		5.51			
5/13/2021					7.79				
8/25/2021		6.79				5.28			
8/26/2021			5.35						
9/1/2021				6.82					
9/3/2021	5.74				7.44				
11/4/2021								6.62	
11/17/2021	6.01						6.15		
2/10/2022	5.93	6.1	5.22	5.43		4.83	4.46		
2/11/2022					7.84			6.4	
4/4/2022						5.11			
4/7/2022						4.88			
8/31/2022				5.28					
9/1/2022	5.93	5.87	5.32		8.06	4.98	4.74	6.2	
2/8/2023		6.19	5.67		7.95	5.15		6.12	
2/9/2023	5.89			5.5			5.14		
8/16/2023	5.92	5.94	5.41	5.34	8.05		4.68		
8/17/2023						5.13		5.6	
2/21/2024	5.65				8.17	5.12		5.98	
2/22/2024		5.99	5.41				4.9		
2/23/2024				5.24					
6/10/2024									7.02
7/17/2024	5.77								
8/21/2024					7.97	5.24		6.17	
8/22/2024	5.74			5.13			4.81		
8/23/2024		5.92	5.28						
11/7/2024									5.71
2/25/2025				5.2					
2/26/2025	5.62	5.6							
2/27/2025			5.41		8	5.16	4.8	5.9	5.76

Time Series

Constituent: pH, Field (SU) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	PZ-55
10/12/2017	
11/21/2017	
1/11/2018	
2/20/2018	
4/3/2018	
6/29/2018	
8/6/2018	
9/24/2018	
1/15/2020	
1/16/2020	
2/11/2020	
3/25/2020	
9/23/2020	
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	
3/3/2021	
3/4/2021	
5/13/2021	
8/25/2021	
8/26/2021	
9/1/2021	
9/3/2021	
11/4/2021	
11/17/2021	
2/10/2022	
2/11/2022	
4/4/2022	
4/7/2022	
8/31/2022	
9/1/2022	
2/8/2023	
2/9/2023	
8/16/2023	
8/17/2023	
2/21/2024	
2/22/2024	5.69
2/23/2024	
6/10/2024	
7/17/2024	
8/21/2024	6.47
8/22/2024	
8/23/2024	
11/7/2024	
2/25/2025	
2/26/2025	
2/27/2025	5.49

Time Series

Constituent: Selenium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
5/1/2007	<0.005								
9/12/2007	<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			<0.005			
6/2/2016					<0.005		<0.005	<0.005	<0.005
7/21/2016	<0.005								
7/25/2016			<0.005			<0.005			
7/26/2016		<0.005			<0.005		0.0009 (J)	<0.005	0.0009 (J)
8/31/2016	<0.005								
9/13/2016		<0.005	<0.005						
9/14/2016				<0.005		<0.005	<0.005	<0.005	<0.005
9/15/2016					<0.005				
11/1/2016		<0.005			<0.005	<0.005			
11/2/2016							<0.005	<0.005	
11/4/2016			<0.005	<0.005					<0.005
11/28/2016	<0.005								
12/15/2016				<0.005					
1/10/2017									
1/11/2017		<0.005			<0.005	<0.005			
1/12/2017								<0.005	<0.005
1/13/2017							<0.005		
1/16/2017			<0.005	<0.005					
2/22/2017	<0.005								
3/1/2017						<0.005			
3/2/2017		<0.005	<0.005		<0.005				
3/3/2017				<0.005					
3/6/2017							<0.005		
3/7/2017								<0.005	<0.005
3/8/2017									
4/26/2017					<0.005	<0.005			
4/27/2017		<0.005	<0.005						
4/28/2017				<0.005					
5/1/2017							<0.005	<0.005	
5/2/2017									<0.005
5/8/2017	<0.005								
5/26/2017				<0.005					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/27/2017		<0.005	<0.005					<0.005	<0.005
6/28/2017				<0.005	<0.005	<0.005			
6/29/2017							<0.005		
6/30/2017									
7/17/2017	<0.005								
10/16/2017	<0.005								
2/19/2018	<0.005								
3/27/2018			<0.005						
3/28/2018				<0.005	<0.005	<0.005			
3/29/2018		<0.005					<0.005	<0.005	<0.005
6/6/2018								<0.005	
6/7/2018							<0.005		<0.005
8/6/2018	<0.005								
9/26/2018							<0.005	<0.005	<0.005
2/25/2019	<0.005								
2/26/2019									
2/27/2019		<0.005	<0.005	<0.005	<0.005	<0.005			
3/4/2019							<0.005	<0.005	<0.005
3/28/2019		<0.005	<0.005						
3/29/2019				<0.005					
4/1/2019					<0.005	<0.005			
4/3/2019							<0.005	<0.005	<0.005
6/12/2019	<0.005								
8/19/2019	<0.005								
9/24/2019		<0.005	<0.005	<0.005				<0.005	<0.005
9/25/2019					<0.005	<0.005	<0.005		
10/8/2019	<0.005								
2/10/2020		<0.005	<0.005						
2/11/2020				<0.005		<0.005			
2/12/2020					<0.005		<0.005	<0.005	<0.005
3/17/2020	<0.005								
3/18/2020			<0.005						
3/19/2020		<0.005		<0.005	<0.005	<0.005			
3/24/2020								<0.005	<0.005
3/25/2020							<0.005		
8/26/2020	<0.005								
9/22/2020	<0.005						<0.005	<0.005	<0.005
9/23/2020		<0.005	<0.005	<0.005	<0.005	<0.005			
9/25/2020									
2/8/2021								<0.005	<0.005
2/9/2021							<0.005		
2/10/2021				<0.005	<0.005	<0.005			
2/12/2021		<0.005	<0.005						
3/2/2021	<0.005							<0.005	<0.005
3/3/2021		<0.005	<0.005	<0.005	<0.005	<0.005	0.0019 (J)		
8/19/2021		<0.005	<0.005		<0.005				
8/20/2021	<0.005								
8/26/2021							<0.005	<0.005	<0.005
8/27/2021				<0.005		<0.005			
2/8/2022	<0.005								
2/9/2022		<0.005	<0.005	<0.005	<0.005	<0.005			
2/10/2022								<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
2/11/2022							<0.005		
8/30/2022	<0.005	<0.005		<0.005				<0.005	<0.005
8/31/2022			<0.005		<0.005	<0.005	<0.005		
2/7/2023	<0.005	<0.005	<0.005	<0.005				<0.005	
2/8/2023					<0.005	<0.005			
2/9/2023							<0.005		<0.005
8/15/2023	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005
8/16/2023						<0.005			
2/20/2024	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/23/2024									
8/20/2024		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/25/2025		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (bg)
5/1/2007	
9/12/2007	
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	
6/2/2016	0.0011 (J)
7/21/2016	
7/25/2016	
7/26/2016	0.0016 (J)
8/31/2016	
9/13/2016	
9/14/2016	
9/15/2016	0.0014 (J)
11/1/2016	
11/2/2016	<0.005
11/4/2016	
11/28/2016	
12/15/2016	
1/10/2017	0.0012 (J)
1/11/2017	
1/12/2017	
1/13/2017	
1/16/2017	
2/22/2017	
3/1/2017	
3/2/2017	
3/3/2017	
3/6/2017	
3/7/2017	
3/8/2017	<0.005
4/26/2017	<0.005
4/27/2017	
4/28/2017	
5/1/2017	
5/2/2017	
5/8/2017	
5/26/2017	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (bg)
6/27/2017	
6/28/2017	
6/29/2017	
6/30/2017	<0.005
7/17/2017	
10/16/2017	
2/19/2018	
3/27/2018	<0.005
3/28/2018	
3/29/2018	
6/6/2018	
6/7/2018	
8/6/2018	
9/26/2018	
2/25/2019	
2/26/2019	<0.005
2/27/2019	
3/4/2019	
3/28/2019	
3/29/2019	0.0019 (J)
4/1/2019	
4/3/2019	
6/12/2019	
8/19/2019	
9/24/2019	
9/25/2019	<0.005
10/8/2019	
2/10/2020	
2/11/2020	
2/12/2020	<0.005
3/17/2020	
3/18/2020	<0.005
3/19/2020	
3/24/2020	
3/25/2020	
8/26/2020	
9/22/2020	
9/23/2020	
9/25/2020	<0.005
2/8/2021	
2/9/2021	
2/10/2021	<0.005
2/12/2021	
3/2/2021	<0.005
3/3/2021	
8/19/2021	<0.005
8/20/2021	
8/26/2021	
8/27/2021	
2/8/2022	
2/9/2022	
2/10/2022	0.0014 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (bg)
2/11/2022	
8/30/2022	
8/31/2022	<0.005
2/7/2023	
2/8/2023	<0.005
2/9/2023	
8/15/2023	0.0014 (J)
8/16/2023	
2/20/2024	
2/23/2024	0.001 (J)
8/20/2024	0.0012 (J)
2/25/2025	0.0014 (J)

Time Series

Constituent: Selenium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)
6/2/2016						<0.005			
6/6/2016		<0.005	<0.005						
6/7/2016	0.001 (J)			<0.005	0.00048 (J)				
7/25/2016						<0.005			
7/27/2016	0.0012 (J)	<0.005	<0.005	<0.005					
7/28/2016					<0.005				
8/30/2016									0.0017 (J)
9/16/2016	0.0015 (J)		<0.005						
9/19/2016		<0.005		<0.005	0.0014 (J)	<0.005			
11/1/2016						<0.005			
11/2/2016				<0.005					
11/3/2016	0.0015 (J)	<0.005	<0.005		<0.005				
11/14/2016									<0.005
1/11/2017	0.0014 (J)	<0.005	<0.005						
1/13/2017				<0.005	<0.005				
1/16/2017						<0.005			
2/21/2017						<0.005			
2/24/2017									0.0011 (J)
3/1/2017		<0.005	<0.005						
3/2/2017	0.0017 (J)								
3/6/2017				<0.005	<0.005				
4/26/2017		<0.005	<0.005	<0.005	<0.005	<0.005			
5/2/2017	<0.005								
5/8/2017									<0.005
6/28/2017		<0.005	<0.005						
6/29/2017	<0.005			<0.005	<0.005				
6/30/2017						<0.005			
7/11/2017									<0.005
10/10/2017									<0.005
10/11/2017							<0.005		
10/12/2017								<0.005	
11/20/2017							<0.005	0.0042 (J)	
1/10/2018								0.0043 (J)	
1/11/2018							<0.005		
1/12/2018									
2/19/2018								<0.005	
2/20/2018							<0.005		
3/27/2018						<0.005			
3/28/2018	<0.005	<0.005	<0.005						
3/29/2018				<0.005	<0.005				
4/2/2018									<0.005
4/3/2018							<0.005	<0.005	
6/5/2018					<0.005				
6/6/2018				<0.005					
6/7/2018		<0.005							
6/11/2018	<0.005		<0.005						
6/28/2018							<0.005	0.0032 (J)	
8/7/2018							<0.005	0.0031 (J)	
9/19/2018									<0.005
9/24/2018							0.0015 (J)	0.0026 (J)	
9/25/2018	<0.005	<0.005	<0.005	<0.005	<0.005				
2/26/2019						<0.005			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)
3/5/2019	<0.005		<0.005	<0.005	<0.005				
3/6/2019		<0.005							
4/1/2019						<0.005			
4/2/2019	<0.005				<0.005				
4/3/2019		<0.005	<0.005	<0.005					
8/20/2019									<0.005
8/21/2019							<0.005	0.0024 (J)	
8/22/2019									
9/24/2019					<0.005				
9/25/2019	<0.005			<0.005		<0.005			
9/26/2019		<0.005	<0.005						
10/9/2019							<0.005	0.0026 (J)	
2/11/2020	<0.005	<0.005	<0.005						
2/12/2020				<0.005	<0.005	<0.005	<0.005	0.002 (J)	
2/14/2020									
3/19/2020						<0.005			
3/24/2020	<0.005	<0.005	<0.005	<0.005	<0.005			0.002 (J)	
3/25/2020							<0.005		
8/27/2020									<0.005
9/23/2020	<0.005	<0.005	<0.005						
9/24/2020				<0.005	<0.005	<0.005	<0.005	0.0016 (J)	
9/25/2020									
2/9/2021	<0.005	<0.005	<0.005	<0.005	<0.005				
2/10/2021							<0.005	<0.005	
2/11/2021						<0.005			
3/1/2021						<0.005			
3/3/2021	<0.005	<0.005	<0.005	<0.005					
3/4/2021					<0.005		<0.005	<0.005	
8/19/2021						<0.005			<0.005
8/26/2021			<0.005				<0.005		
8/27/2021	<0.005	<0.005		<0.005					
9/1/2021					<0.005				
9/3/2021								<0.005	
2/8/2022							<0.005	0.0014 (J)	<0.005
2/9/2022	<0.005	<0.005	<0.005	<0.005	<0.005				
2/10/2022									
2/11/2022						<0.005			
8/30/2022	<0.005	<0.005	<0.005		<0.005				
8/31/2022				<0.005		<0.005	<0.005	<0.005	<0.005
9/1/2022									
2/7/2023	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005		
2/8/2023						<0.005		<0.005	<0.005
8/15/2023	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005	<0.005
8/16/2023						<0.005			
2/20/2024	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/22/2024									
2/23/2024			<0.005						
8/20/2024	<0.005	<0.005		<0.005	<0.005	<0.005			<0.005
8/21/2024			<0.005				<0.005	<0.005	
8/23/2024									
2/25/2025	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/26/2025									

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38
6/2/2016	
6/6/2016	
6/7/2016	
7/25/2016	
7/27/2016	
7/28/2016	
8/30/2016	
9/16/2016	
9/19/2016	
11/1/2016	
11/2/2016	
11/3/2016	
11/14/2016	
1/11/2017	
1/13/2017	
1/16/2017	
2/21/2017	
2/24/2017	
3/1/2017	
3/2/2017	
3/6/2017	
4/26/2017	
5/2/2017	
5/8/2017	
6/28/2017	
6/29/2017	
6/30/2017	
7/11/2017	
10/10/2017	
10/11/2017	
10/12/2017	0.265
11/20/2017	0.246
1/10/2018	
1/11/2018	
1/12/2018	0.249
2/19/2018	
2/20/2018	0.25
3/27/2018	
3/28/2018	
3/29/2018	
4/2/2018	
4/3/2018	0.23
6/5/2018	
6/6/2018	
6/7/2018	
6/11/2018	
6/28/2018	0.23
8/7/2018	0.2
9/19/2018	
9/24/2018	0.2
9/25/2018	
2/26/2019	

Time Series

Constituent: Selenium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38
3/5/2019	
3/6/2019	
4/1/2019	
4/2/2019	
4/3/2019	
8/20/2019	
8/21/2019	
8/22/2019	0.14
9/24/2019	
9/25/2019	
9/26/2019	
10/9/2019	0.12
2/11/2020	
2/12/2020	
2/14/2020	0.11
3/19/2020	
3/24/2020	
3/25/2020	0.099
8/27/2020	
9/23/2020	
9/24/2020	
9/25/2020	0.076
2/9/2021	0.073
2/10/2021	
2/11/2021	
3/1/2021	
3/3/2021	
3/4/2021	0.076
8/19/2021	
8/26/2021	0.06
8/27/2021	
9/1/2021	
9/3/2021	
2/8/2022	
2/9/2022	
2/10/2022	0.064
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	0.055
2/7/2023	
2/8/2023	0.056
8/15/2023	
8/16/2023	0.053
2/20/2024	
2/22/2024	0.048
2/23/2024	
8/20/2024	
8/21/2024	
8/23/2024	0.045
2/25/2025	
2/26/2025	0.045

Time Series

Constituent: Selenium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-41	YGWC-23S	YGWC-24SB	YGWC-36A	YGWC-42	YGWC-43	YGWC-49	YGWC-50	YAMW-1
6/7/2016		0.037							
6/8/2016			<0.005						
7/28/2016		0.0385							
8/1/2016			<0.005						
8/30/2016					0.0711				
8/31/2016						<0.005			
9/1/2016							0.0086 (J)		
9/2/2016				0.0012 (J)					
9/20/2016		0.0464	<0.005						
11/8/2016		0.0521	<0.005						
11/14/2016				<0.005					
11/15/2016							0.0056 (J)		
11/16/2016					0.0313	<0.005			
1/16/2017		0.0469							
1/17/2017			<0.005						
2/24/2017						<0.005			
2/27/2017					0.0316		0.0098 (J)		
2/28/2017				0.0017 (J)					
3/8/2017			<0.005						
3/9/2017		0.0437							
5/2/2017		0.0395	<0.005						
5/9/2017				0.0018 (J)			0.0076 (J)		
5/10/2017					0.053	<0.005			
7/7/2017			<0.005						
7/10/2017		0.0386							
7/11/2017					0.0697	<0.005			
7/13/2017				0.0031 (J)			0.0093 (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	0.0191				0.0594	<0.005			
11/21/2017	0.0687								
1/11/2018	0.069								
2/19/2018	0.071								
3/30/2018		0.028	<0.005	<0.005					
4/3/2018	0.067								
4/4/2018					0.055	<0.005	<0.005		
6/12/2018		0.026	<0.005						
6/13/2018				0.0024 (J)					
6/27/2018	0.066								
8/7/2018	0.061								
9/20/2018					0.041	<0.005	0.0081 (J)		
9/24/2018	0.061								
9/26/2018			<0.005	0.0037 (J)					
9/27/2018		0.023							
10/16/2018									0.0019 (J)
3/5/2019			<0.005						
3/6/2019		0.019		0.0033 (J)					
4/4/2019		0.017	<0.005	0.0029 (J)					
8/21/2019						<0.005			
8/22/2019	0.058				0.047				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-41	YGWC-23S	YGWC-24SB	YGWC-36A	YGWC-42	YGWC-43	YGWC-49	YGWC-50	YAMW-1
9/26/2019			<0.005	0.0019 (J)			0.0077 (J)		<0.005
9/27/2019		0.018							
10/9/2019	0.052				0.042	<0.005			
1/15/2020									
2/13/2020			<0.005						
2/14/2020	0.059			0.002 (J)	0.04				
2/17/2020		0.02				<0.005	0.0068 (J)		
3/25/2020	0.057			0.0024 (J)	0.046	<0.005	0.0085 (J)		<0.005
3/26/2020		0.024	<0.005						
9/23/2020			<0.005						
9/24/2020		0.031			0.046		0.0091 (J)		<0.005
9/25/2020	0.046					<0.005			
10/7/2020				<0.005					
2/9/2021		0.032	<0.005			<0.005	0.0079 (J)		<0.005
2/10/2021	0.033			<0.005	0.043				
3/3/2021			<0.005						<0.005
3/4/2021	0.037	0.037		<0.005	0.048	<0.005	0.0058		
8/25/2021		0.032			0.043				
8/26/2021	0.027								
9/1/2021			<0.005				0.0066		0.0027 (J)
9/3/2021				<0.005					
9/27/2021						<0.005			
2/8/2022	0.031					<0.005	0.0075		
2/10/2022		0.039	<0.005		0.044				0.0034 (J)
2/11/2022				<0.005					
8/31/2022							0.0062		0.0041 (J)
9/1/2022	0.027	0.036		<0.005	0.035	<0.005			
2/8/2023	0.027	0.035			0.041	<0.005			
2/9/2023				0.0027 (J)			0.0054		0.0051
2/10/2023			<0.005						
8/16/2023	0.023	0.03	<0.005	0.0032 (J)	0.019	<0.005	0.0062		0.0046 (J)
8/17/2023								0.0018 (J)	
12/20/2023								0.0015 (J)	
2/21/2024		0.031					0.0055		
2/22/2024	0.021				0.037	<0.005		<0.005	
2/23/2024			<0.005	0.005 (J)					0.0056
6/10/2024								0.0012 (J)	
8/21/2024		0.03							
8/22/2024			<0.005	0.0054	0.038	<0.005	0.0056		0.0079
8/23/2024	0.021							0.0015 (J)	
11/26/2024								0.0022 (J)	
2/26/2025	0.023			0.0054	0.036		0.0059	<0.005	0.0071
2/27/2025		0.044				<0.005			
3/17/2025			<0.005						
5/21/2025								<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-2
6/7/2016	
6/8/2016	
7/28/2016	
8/1/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/20/2016	
11/8/2016	
11/14/2016	
11/15/2016	
11/16/2016	
1/16/2017	
1/17/2017	
2/24/2017	
2/27/2017	
2/28/2017	
3/8/2017	
3/9/2017	
5/2/2017	
5/9/2017	
5/10/2017	
7/7/2017	
7/10/2017	
7/11/2017	
7/13/2017	
9/22/2017	
9/29/2017	
10/6/2017	
10/11/2017	
10/12/2017	
11/21/2017	
1/11/2018	
2/19/2018	
3/30/2018	
4/3/2018	
4/4/2018	
6/12/2018	
6/13/2018	
6/27/2018	
8/7/2018	
9/20/2018	
9/24/2018	
9/26/2018	
9/27/2018	
10/16/2018	
3/5/2019	
3/6/2019	
4/4/2019	
8/21/2019	
8/22/2019	

Time Series

Constituent: Selenium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-2
9/26/2019	
9/27/2019	
10/9/2019	
1/15/2020	<0.005
2/13/2020	
2/14/2020	
2/17/2020	
3/25/2020	
3/26/2020	
9/23/2020	<0.005
9/24/2020	
9/25/2020	
10/7/2020	
2/9/2021	<0.005
2/10/2021	
3/3/2021	<0.005
3/4/2021	
8/25/2021	
8/26/2021	
9/1/2021	<0.005
9/3/2021	
9/27/2021	
2/8/2022	
2/10/2022	<0.005
2/11/2022	
8/31/2022	
9/1/2022	<0.005
2/8/2023	<0.005
2/9/2023	
2/10/2023	
8/16/2023	
8/17/2023	<0.005
12/20/2023	
2/21/2024	
2/22/2024	<0.005
2/23/2024	
6/10/2024	
8/21/2024	0.0012 (J)
8/22/2024	
8/23/2024	
11/26/2024	
2/26/2025	<0.005
2/27/2025	
3/17/2025	
5/21/2025	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-3	YAMW-4	YAMW-5	PZ-35	PZ-37D	PZ-37	PZ-51	PZ-52D	PZ-54D
10/12/2017						0.234			
11/21/2017						0.225			
1/11/2018						0.168			
2/20/2018						0.32			
4/3/2018						0.28			
6/29/2018						0.26			
8/6/2018						0.21			
9/24/2018						0.33			
10/16/2018				<0.005					
9/26/2019				<0.005					
1/15/2020			0.045						
1/16/2020	<0.005	0.0018 (J)							
3/25/2020				<0.005					
9/23/2020		0.016							
9/24/2020			0.026	<0.005					
9/25/2020						0.32			
2/9/2021		<0.005	0.06			0.28			
2/10/2021				<0.005					
3/3/2021		<0.005							
3/4/2021			0.061	<0.005		0.27			
5/13/2021					<0.005				
8/25/2021		0.019				0.2			
8/26/2021			0.055						
9/1/2021				0.0016 (J)					
9/3/2021					<0.005				
11/4/2021								0.0034 (J)	
2/10/2022	<0.005	0.019	0.057	0.003 (J)		0.2	0.029		
2/11/2022					<0.005			0.0025 (J)	
4/4/2022						0.18			
4/7/2022						0.18			
8/31/2022				0.0033 (J)					
9/1/2022	<0.005	0.023	0.048		<0.005	0.17	0.026	0.0041 (J)	
2/8/2023		0.017	0.052		<0.005	0.16		0.0057	
2/9/2023	<0.005			0.0041 (J)			0.028		
8/16/2023	0.0075	0.019	0.054	0.0039 (J)	<0.005		0.024		
8/17/2023						0.15		0.011	
2/21/2024	0.023				<0.005	0.13		0.0099	
2/22/2024		0.015	0.053				0.024		
2/23/2024				0.0035 (J)					
6/12/2024									0.0056
8/21/2024					<0.005	0.12		0.01	
8/22/2024	0.028			0.0038 (J)			0.022		
8/23/2024		0.014	0.054						
11/7/2024									<0.005
2/25/2025				0.0041 (J)					
2/26/2025	0.028	0.013							
2/27/2025			0.056		<0.005	0.11	0.021	0.0098	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	PZ-55
10/12/2017	
11/21/2017	
1/11/2018	
2/20/2018	
4/3/2018	
6/29/2018	
8/6/2018	
9/24/2018	
10/16/2018	
9/26/2019	
1/15/2020	
1/16/2020	
3/25/2020	
9/23/2020	
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	
3/3/2021	
3/4/2021	
5/13/2021	
8/25/2021	
8/26/2021	
9/1/2021	
9/3/2021	
11/4/2021	
2/10/2022	
2/11/2022	
4/4/2022	
4/7/2022	
8/31/2022	
9/1/2022	
2/8/2023	
2/9/2023	
8/16/2023	
8/17/2023	
2/21/2024	
2/22/2024	0.019
2/23/2024	
6/12/2024	
8/21/2024	0.022
8/22/2024	
8/23/2024	
11/7/2024	
2/25/2025	
2/26/2025	
2/27/2025	0.022

Time Series

Constituent: Sulfate (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/1/2016		5	4.2			12			
6/2/2016					5.8		8	20	1.9
7/25/2016			3.7			8.4			
7/26/2016		5.4			6.7		7.7	20	1.8
8/31/2016	29								
9/13/2016		2.9	5.2						
9/14/2016				9.4		8.6	7.5	19	1.8
9/15/2016					6				
11/1/2016		3.9			4.9	8.9			
11/2/2016							8.2	20	
11/4/2016			5	13					2
11/28/2016	36								
12/15/2016				1.8					
1/10/2017									
1/11/2017		3.7			4.5	8.6			
1/12/2017								19	1.9
1/13/2017							8.1		
1/16/2017			7.9	11					
2/22/2017	43								
3/1/2017						9.3			
3/2/2017		4.6	7.4		4.4				
3/3/2017				8.8					
3/6/2017							8		
3/7/2017								20	2.1
3/8/2017									
4/26/2017					5.1	11			
4/27/2017		5.2	7.4						
4/28/2017				10					
5/1/2017							8.4	20	
5/2/2017									2
5/8/2017	60								
5/26/2017				12					
6/27/2017		5.9	6.4					18	2.1
6/28/2017				11	5.4	12			
6/29/2017							9.2		
6/30/2017									
7/17/2017	63								
10/3/2017		6.6	5.9	7.9				16	2.3
10/4/2017					6.2	12			
10/5/2017							9.6		
10/16/2017	62								
2/19/2018	64.6								
6/5/2018		6.4							
6/6/2018			4.4					8.3	
6/7/2018				8.8	6.7		8.5		2
6/8/2018						9.6			
8/6/2018	42.1								
9/26/2018							10.2	7.9	2.3
10/1/2018		5.6	4	9.1	7.1	9.1			
2/25/2019	42.1								
3/28/2019		8	4.3						
3/29/2019				9					

Time Series

Constituent: Sulfate (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
4/1/2019					7.2	8.5			
4/3/2019							8.5	7	2.1
6/12/2019	83.4								
9/24/2019		5.3	4.3	9.1				5.5	2.4
9/25/2019					7	13.8	8.5		
10/8/2019	128								
10/10/2019							9.2	<1	1.8
3/17/2020	98.6								
3/18/2020			5.3						
3/19/2020		10		12.4	9	12.9			
3/24/2020								5.9	2.1
3/25/2020							8.8		
9/22/2020	145						8.2	5.5	2.1
9/23/2020		8.1	3.4	11.8	6.9	16.8			
9/25/2020									
3/2/2021	156							2.6	2.3
3/3/2021		9	4.4	10.6	7	9.6	7.8		
8/19/2021		8.9	4.9		7.5				
8/20/2021	121								
8/26/2021							8.5	6	2.4
8/27/2021				16.7		18.2			
2/8/2022	107								
2/9/2022		9.3	5.1	18	7.2	16			
2/10/2022								4.9	2.4
2/11/2022							7.7		
8/30/2022	101	10.2		20.1				5.7	2.4
8/31/2022			4.8		6.9	13.9	8		
2/7/2023	82.4	10.6	6.6	17.8				5.2	
2/8/2023					7.5	14.7			
2/9/2023							8.9		2.9
8/15/2023	74.2	9.6	4.6	17.2	6.8		7.5	4.8	2.2
8/16/2023						20.3			
2/20/2024	75	9.7	4.3	23.1	7	13.8	8.5	5.1	2.5
2/23/2024									
8/20/2024		12.2	4.9	21.3	7.7	13.7	8.7	4.3	2.6
2/25/2025		10.4	3.5	13.8	6.7	10.9	7.4	4.6	2.2

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (bg)
6/1/2016	
6/2/2016	6.6
7/25/2016	
7/26/2016	6.1
8/31/2016	
9/13/2016	
9/14/2016	
9/15/2016	6.1
11/1/2016	
11/2/2016	6.3
11/4/2016	
11/28/2016	
12/15/2016	
1/10/2017	5.9
1/11/2017	
1/12/2017	
1/13/2017	
1/16/2017	
2/22/2017	
3/1/2017	
3/2/2017	
3/3/2017	
3/6/2017	
3/7/2017	
3/8/2017	7
4/26/2017	7
4/27/2017	
4/28/2017	
5/1/2017	
5/2/2017	
5/8/2017	
5/26/2017	
6/27/2017	
6/28/2017	
6/29/2017	
6/30/2017	6.5
7/17/2017	
10/3/2017	
10/4/2017	
10/5/2017	7.9
10/16/2017	
2/19/2018	
6/5/2018	
6/6/2018	
6/7/2018	
6/8/2018	6.4
8/6/2018	
9/26/2018	
10/1/2018	6.8
2/25/2019	
3/28/2019	
3/29/2019	7.3

Time Series

Constituent: Sulfate (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (bg)
4/1/2019	
4/3/2019	
6/12/2019	
9/24/2019	
9/25/2019	6.6
10/8/2019	
10/10/2019	
3/17/2020	
3/18/2020	8.1
3/19/2020	
3/24/2020	
3/25/2020	
9/22/2020	
9/23/2020	
9/25/2020	6.1
3/2/2021	6
3/3/2021	
8/19/2021	6.7
8/20/2021	
8/26/2021	
8/27/2021	
2/8/2022	
2/9/2022	
2/10/2022	6.2
2/11/2022	
8/30/2022	
8/31/2022	5.8
2/7/2023	
2/8/2023	6.1
2/9/2023	
8/15/2023	6
8/16/2023	
2/20/2024	
2/23/2024	7.1
8/20/2024	7.6
2/25/2025	6.5

Time Series

Constituent: Sulfate (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)
6/2/2016						1.3			
6/6/2016		1.2	1.8						
6/7/2016	4.4			<1	5.2				
7/25/2016						1.2			
7/27/2016	4.7	1.7	1.9	0.08 (J)					
7/28/2016					5.1				
8/30/2016									160
9/16/2016	4.8		1.7						
9/19/2016		1.8		0.08 (J)	4.8	1.2			
11/1/2016						1.3			
11/2/2016				0.1 (J)					
11/3/2016	5.3	0.69 (J)	1.9		5				
11/14/2016									150
1/11/2017	5.2	0.99 (J)	1.7						
1/13/2017				0.1 (J)	4.3				
1/16/2017						1.4			
2/21/2017						1.4			
2/24/2017									120
3/1/2017		1.8	1.6						
3/2/2017	5								
3/6/2017				<1	4.5				
4/26/2017		1.6	1.9	<1	4.9	1.4			
5/2/2017	5								
5/8/2017									120
6/28/2017		1.7	1.5						
6/29/2017	5.2			0.15 (J)	5.5				
6/30/2017						1.5			
7/11/2017									110
10/3/2017					5.8				
10/4/2017	5.3		1.7	0.14 (J)		1.4			
10/5/2017		1.6							
10/10/2017									93
10/11/2017							20		
10/12/2017								17	
11/20/2017							24	71	
1/10/2018								66	
1/11/2018							23		
1/12/2018									
2/19/2018								57.2	
2/20/2018							20.6		
4/2/2018									88.8
4/3/2018							24.5	49.4	
6/5/2018					6.1				
6/6/2018				0.049 (J)					
6/7/2018		0.68 (J)							
6/11/2018	5.2		0.95 (J)			1.1			
6/28/2018							22	43.8	
8/7/2018							20.7	40.5	
9/19/2018									75
9/24/2018							21.2	39.7	
9/25/2018	6.1	1	1.5	0.13 (J)	7				
10/2/2018						1			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)
3/26/2019								34.3	
3/27/2019							17.7		65.9
4/1/2019						0.96 (J)			
4/2/2019	5.1				3.8				
4/3/2019		0.82 (J)	1.3	0.12 (J)					
9/24/2019					1				
9/25/2019	5.5			<1		0.81 (J)			
9/26/2019		0.64 (J)	1						
10/8/2019									52.3
10/9/2019							14.85 (D)	27.75 (D)	
10/10/2019	5.5			0.058 (J)	3.6				
3/17/2020									71.6
3/19/2020						1.6			
3/24/2020	5.4	<1	0.99 (J)	<1	3			25.2	
3/25/2020							14.3		
9/22/2020									51.5
9/23/2020	5.1	0.53 (J)	1.1						
9/24/2020				<1	3.6	0.69 (J)	11.7	22.9	
9/25/2020									
3/1/2021						0.88 (J)			51.6
3/3/2021	5.2	<1	1	<1					
3/4/2021					4.5		12	21.5	
8/19/2021						1			52.6
8/26/2021			1.2				19.2		
8/27/2021	5.3	0.59 (J)		<1					
9/1/2021					5				
9/3/2021								21.3	
2/8/2022							14.6	17.9	50.9
2/9/2022	4.8	0.51 (J)	1.1	<1	3.9				
2/10/2022									
2/11/2022						2.8			
8/30/2022	4.7	0.78 (J)	1.3		3.2				
8/31/2022				<1		1.1	10.9	17.9	48
9/1/2022									
2/7/2023	4.9	0.78 (J)	1.2	<1	3.8		9.7		
2/8/2023						0.96 (J)		17.5	50.5
8/15/2023	4.6	0.51 (J)	0.88 (J)	<1	4.1		7.6	16.4	47.7
8/16/2023						0.9 (J)			
2/20/2024	4.6	<1		<1	3.8	0.69 (J)	8.6	17.2	51
2/22/2024									
2/23/2024			0.79 (J)						
8/20/2024	4.6	0.74 (J)		<1	4	0.74 (J)			53.9
8/21/2024			1.1				6.6	18.2	
8/23/2024									
2/25/2025	3.6	<1	0.59 (J)	<1	3.3	0.74 (J)	6.5	15.4	48.3
2/26/2025									

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38
6/2/2016	
6/6/2016	
6/7/2016	
7/25/2016	
7/27/2016	
7/28/2016	
8/30/2016	
9/16/2016	
9/19/2016	
11/1/2016	
11/2/2016	
11/3/2016	
11/14/2016	
1/11/2017	
1/13/2017	
1/16/2017	
2/21/2017	
2/24/2017	
3/1/2017	
3/2/2017	
3/6/2017	
4/26/2017	
5/2/2017	
5/8/2017	
6/28/2017	
6/29/2017	
6/30/2017	
7/11/2017	
10/3/2017	
10/4/2017	
10/5/2017	
10/10/2017	
10/11/2017	
10/12/2017	940
11/20/2017	980
1/10/2018	
1/11/2018	
1/12/2018	880
2/19/2018	
2/20/2018	905
4/2/2018	
4/3/2018	872
6/5/2018	
6/6/2018	
6/7/2018	
6/11/2018	
6/28/2018	869
8/7/2018	879
9/19/2018	
9/24/2018	872
9/25/2018	
10/2/2018	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38
3/26/2019	
3/27/2019	851
4/1/2019	
4/2/2019	
4/3/2019	
9/24/2019	
9/25/2019	
9/26/2019	
10/8/2019	
10/9/2019	700 (D)
10/10/2019	
3/17/2020	
3/19/2020	
3/24/2020	
3/25/2020	483
9/22/2020	
9/23/2020	
9/24/2020	
9/25/2020	414
3/1/2021	
3/3/2021	
3/4/2021	356
8/19/2021	
8/26/2021	328
8/27/2021	
9/1/2021	
9/3/2021	
2/8/2022	
2/9/2022	
2/10/2022	290
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	282
2/7/2023	
2/8/2023	251
8/15/2023	
8/16/2023	227
2/20/2024	
2/22/2024	210
2/23/2024	
8/20/2024	
8/21/2024	
8/23/2024	186
2/25/2025	
2/26/2025	159

Time Series

Constituent: Sulfate (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-41	YGWC-23S	YGWC-24SB	YGWC-36A	YGWC-42	YGWC-43	YGWC-49	YGWC-50	YAMW-1
6/7/2016		56							
6/8/2016			<1						
7/28/2016		57							
8/1/2016			1.1						
8/30/2016					980				
8/31/2016						34			
9/1/2016							95		
9/2/2016				72					
9/20/2016		68	0.38 (J)						
11/8/2016		79	0.39 (J)						
11/14/2016				110					
11/15/2016							94		
11/16/2016					940	240			
1/16/2017		72							
1/17/2017			0.48 (J)						
2/24/2017						89			
2/27/2017					940		84		
2/28/2017				110					
3/8/2017			0.29 (J)						
3/9/2017		69							
5/2/2017		60	0.29 (J)						
5/9/2017				130			91		
5/10/2017					1200	100			
7/7/2017			0.37 (J)						
7/10/2017		57							
7/11/2017					1300	110			
7/13/2017				140			88		
9/22/2017				160					
9/29/2017				160					
10/5/2017			0.36 (J)						
10/6/2017				160					
10/11/2017		52		150			86		
10/12/2017	400				1100	120			
11/21/2017	430								
1/11/2018	390								
2/19/2018	414								
4/3/2018	406								
4/4/2018					1020	160	76.5		
6/12/2018		41.4	0.35 (J)						
6/13/2018				144					
6/27/2018	357								
8/7/2018	346								
9/20/2018					810	247	84.1		
9/24/2018	358								
9/26/2018			0.28 (J)	160					
9/27/2018		39.6							
10/16/2018									83.7
3/27/2019					831				
3/28/2019	258					181	82.8		
4/4/2019		27.9	0.29 (J)	119					
9/26/2019			0.23 (J)	84.8			80		46.6
9/27/2019		30.3							

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-41	YGWC-23S	YGWC-24SB	YGWC-36A	YGWC-42	YGWC-43	YGWC-49	YGWC-50	YAMW-1
10/9/2019	259.5 (D)				728.5 (D)	279			
10/10/2019		29.5							
3/25/2020	214			58.8	642	164	76.1		11.7
3/26/2020		36.5	<1						
9/23/2020			<1						
9/24/2020		52.5			579		77		13.1
9/25/2020	175					281			
10/7/2020				18.2					
3/3/2021			<1						16.9
3/4/2021	117	61.7		6.3	537	328	75.1		
8/25/2021		68			500				
8/26/2021	117								
9/1/2021			<1				79.8		94.7
9/3/2021				13.8					
9/27/2021						56.5			
2/8/2022	109					133	73.9		
2/10/2022		78.7	<1		485				120
2/11/2022				16.4					
8/31/2022							71		173
9/1/2022	117	79		28.2	502	169			
2/8/2023	119	78			494	164			
2/9/2023				50.8			71.1		209
2/10/2023			0.5 (J)						
8/16/2023	104	69.3	<1	93.9	451	151	63.8		151
8/17/2023								1140	
12/20/2023								1180	
2/21/2024		81					65.4		
2/22/2024	109				487	147		1170	
2/23/2024			<1	156					237
6/10/2024								1130	
8/21/2024		89.3							
8/22/2024			<1	191	432	181	66.4		279
8/23/2024	97.8							1130	
11/26/2024								1010	
2/26/2025	96.4			199	432		56.8	1040	239
2/27/2025		92.2				187			
3/17/2025			<1						
5/21/2025								1220	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-2
6/7/2016	
6/8/2016	
7/28/2016	
8/1/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/20/2016	
11/8/2016	
11/14/2016	
11/15/2016	
11/16/2016	
1/16/2017	
1/17/2017	
2/24/2017	
2/27/2017	
2/28/2017	
3/8/2017	
3/9/2017	
5/2/2017	
5/9/2017	
5/10/2017	
7/7/2017	
7/10/2017	
7/11/2017	
7/13/2017	
9/22/2017	
9/29/2017	
10/5/2017	
10/6/2017	
10/11/2017	
10/12/2017	
11/21/2017	
1/11/2018	
2/19/2018	
4/3/2018	
4/4/2018	
6/12/2018	
6/13/2018	
6/27/2018	
8/7/2018	
9/20/2018	
9/24/2018	
9/26/2018	
9/27/2018	
10/16/2018	
3/27/2019	
3/28/2019	
4/4/2019	
9/26/2019	
9/27/2019	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-2
10/9/2019	
10/10/2019	
3/25/2020	
3/26/2020	
9/23/2020	9.1
9/24/2020	
9/25/2020	
10/7/2020	
3/3/2021	7.9
3/4/2021	
8/25/2021	
8/26/2021	
9/1/2021	8.3
9/3/2021	
9/27/2021	
2/8/2022	
2/10/2022	7.1
2/11/2022	
8/31/2022	
9/1/2022	6.6
2/8/2023	6.7
2/9/2023	
2/10/2023	
8/16/2023	
8/17/2023	6.6
12/20/2023	
2/21/2024	
2/22/2024	6.2
2/23/2024	
6/10/2024	
8/21/2024	7.3
8/22/2024	
8/23/2024	
11/26/2024	
2/26/2025	8.1
2/27/2025	
3/17/2025	
5/21/2025	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-3	YAMW-4	YAMW-5	PZ-35	PZ-37D	PZ-37	PZ-51	PZ-52D	PZ-54D
10/12/2017						650			
11/21/2017						700			
1/11/2018						590			
2/20/2018						677			
4/3/2018						615			
6/29/2018						634			
8/6/2018						623			
9/24/2018						674			
10/16/2018				34.2					
9/26/2019				14.3					
3/25/2020				36.1					
9/23/2020		152							
9/24/2020			438	7.2					
9/25/2020						563			
3/3/2021		91.7							
3/4/2021			340	8.8		485			
5/13/2021					178				
8/25/2021		164				472			
8/26/2021			338						
9/1/2021				38.7					
9/3/2021					153				
11/4/2021								191	
2/10/2022	305	160	276	42.6		452	306		
2/11/2022					115			209	
4/4/2022						364			
4/7/2022						369			
8/31/2022				67.9					
9/1/2022	324	179	354		381	490	346	280	
2/8/2023		192	368		177	449		279	
2/9/2023	419			84.6			370		
8/16/2023	240	177	343	107	210		309		
8/17/2023						459		289	
2/21/2024	386				222	462		309	
2/22/2024		208	369				309		
2/23/2024				148					
6/12/2024									177
8/21/2024					320	441		305	
8/22/2024	371			109			309		
8/23/2024		193	367						
11/7/2024									174
2/25/2025				165					
2/26/2025	357	213							
2/27/2025			321		194	420	314	279	161

Time Series

Constituent: Sulfate (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	PZ-55
10/12/2017	
11/21/2017	
1/11/2018	
2/20/2018	
4/3/2018	
6/29/2018	
8/6/2018	
9/24/2018	
10/16/2018	
9/26/2019	
3/25/2020	
9/23/2020	
9/24/2020	
9/25/2020	
3/3/2021	
3/4/2021	
5/13/2021	
8/25/2021	
8/26/2021	
9/1/2021	
9/3/2021	
11/4/2021	
2/10/2022	
2/11/2022	
4/4/2022	
4/7/2022	
8/31/2022	
9/1/2022	
2/8/2023	
2/9/2023	
8/16/2023	
8/17/2023	
2/21/2024	
2/22/2024	139
2/23/2024	
6/12/2024	
8/21/2024	128
8/22/2024	
8/23/2024	
11/7/2024	
2/25/2025	
2/26/2025	
2/27/2025	128

Time Series

Constituent: TDS (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/1/2016		120	54			150			
6/2/2016					130		96	160	66
7/25/2016			48			135			
7/26/2016		94			141		92	177	78
8/31/2016	209								
9/13/2016		105	67						
9/14/2016				152		127	102	187	73
9/15/2016					153				
11/1/2016		44			92	75			
11/2/2016							115	181	
11/4/2016			60	148					75
11/28/2016	102								
12/15/2016				191					
1/10/2017									
1/11/2017		107			159	148			
1/12/2017								202	86
1/13/2017							67		
1/16/2017			65	180					
2/22/2017	164								
3/1/2017						182			
3/2/2017		98	61		117				
3/3/2017				156					
3/6/2017							159		
3/7/2017								257	108
3/8/2017									
4/26/2017					181	92			
4/27/2017		116	31						
4/28/2017				130					
5/1/2017							107	165	
5/2/2017									103
5/8/2017	145								
5/26/2017				223					
6/27/2017		89	42					189	73
6/28/2017				166	169	126			
6/29/2017							79		
6/30/2017									
7/17/2017	185								
10/3/2017		119	58	153				170	89
10/4/2017					141	147			
10/5/2017							95		
10/16/2017	218								
2/19/2018	173								
6/5/2018		127							
6/6/2018			96					151	
6/7/2018				146	95		90		142
6/8/2018						158			
8/6/2018	158								
9/26/2018							116	144	86
10/1/2018		117	60	155	165	138			
2/25/2019	92								
3/28/2019		87	87						
3/29/2019				150					

Time Series

Constituent: TDS (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
4/1/2019					149	19 (J)			
4/3/2019							111	142	83
6/12/2019	226								
9/24/2019		124	54	146				129	79
9/25/2019					157	159	117		
10/8/2019	276								
3/17/2020	185								
3/18/2020			35						
3/19/2020		116		148	146	148			
3/24/2020								139	68
3/25/2020							146		
9/22/2020	281						83	104	75
9/23/2020		108	15	161	157	155			
9/25/2020									
3/2/2021	296							52	67
3/3/2021		99	39	138	137	111	80		
8/19/2021		105	44		144				
8/20/2021	254								
8/26/2021							93	123	86
8/27/2021				150		155			
2/8/2022	283								
2/9/2022		105	57	156	154	145			
2/10/2022								127	77
2/11/2022							102		
8/30/2022	244	116		153				148	86
8/31/2022			46		141	137	92		
2/7/2023	207	131	121	159				180	
2/8/2023					144	145			
2/9/2023							124		59
8/15/2023	230	121	65	157	231		99	219	76
8/16/2023						148			
2/20/2024	214	130	59	159	294	220	140	639 (O)	137
2/23/2024									
8/20/2024		140	67	184	164	179	128	212	108
2/25/2025		121	47	156	147	136	105	146	83

Time Series

Constituent: TDS (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (bg)
6/1/2016	
6/2/2016	46
7/25/2016	
7/26/2016	54
8/31/2016	
9/13/2016	
9/14/2016	
9/15/2016	54
11/1/2016	
11/2/2016	71
11/4/2016	
11/28/2016	
12/15/2016	
1/10/2017	45
1/11/2017	
1/12/2017	
1/13/2017	
1/16/2017	
2/22/2017	
3/1/2017	
3/2/2017	
3/3/2017	
3/6/2017	
3/7/2017	
3/8/2017	178
4/26/2017	52
4/27/2017	
4/28/2017	
5/1/2017	
5/2/2017	
5/8/2017	
5/26/2017	
6/27/2017	
6/28/2017	
6/29/2017	
6/30/2017	45
7/17/2017	
10/3/2017	
10/4/2017	
10/5/2017	40
10/16/2017	
2/19/2018	
6/5/2018	
6/6/2018	
6/7/2018	
6/8/2018	114
8/6/2018	
9/26/2018	
10/1/2018	50
2/25/2019	
3/28/2019	
3/29/2019	63

Time Series

Constituent: TDS (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (bg)
4/1/2019	
4/3/2019	
6/12/2019	
9/24/2019	
9/25/2019	64
10/8/2019	
3/17/2020	
3/18/2020	57
3/19/2020	
3/24/2020	
3/25/2020	
9/22/2020	
9/23/2020	
9/25/2020	54
3/2/2021	67
3/3/2021	
8/19/2021	54
8/20/2021	
8/26/2021	
8/27/2021	
2/8/2022	
2/9/2022	
2/10/2022	56
2/11/2022	
8/30/2022	
8/31/2022	51
2/7/2023	
2/8/2023	56
2/9/2023	
8/15/2023	69
8/16/2023	
2/20/2024	
2/23/2024	64
8/20/2024	81
2/25/2025	64

Time Series

Constituent: TDS (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)
6/2/2016						36			
6/6/2016		120	58						
6/7/2016	28			38	60				
7/25/2016						50			
7/27/2016	74	94	35	74					
7/28/2016					81				
8/30/2016									319
9/16/2016	67		35						
9/19/2016		92		45	68	35			
11/1/2016						<25			
11/2/2016				53					
11/3/2016	41	104	48		61				
11/14/2016									280
1/11/2017	104	133	95						
1/13/2017				46	76				
1/16/2017						47			
2/21/2017						<25			
2/24/2017									162
3/1/2017		119	79						
3/2/2017	77								
3/6/2017				164	167				
4/26/2017		162	36	34	50	55			
5/2/2017	142								
5/8/2017									194
6/28/2017		98	45						
6/29/2017	53			68	94				
6/30/2017						42			
7/11/2017									193
10/3/2017					149				
10/4/2017	61		45	54		31			
10/5/2017		104							
10/10/2017									175
10/11/2017							68		
10/12/2017								74	
11/20/2017							139	179	
1/10/2018								140	
1/11/2018							153		
1/12/2018									
2/19/2018								119	
2/20/2018							87		
4/2/2018									192
4/3/2018							85	106	
6/5/2018					109				
6/6/2018				79					
6/7/2018		68							
6/11/2018	70		74			59			
6/28/2018							88	112	
8/7/2018							89	103	
9/19/2018									186
9/24/2018							82	107	
9/25/2018	86	109	63	73	122				
10/2/2018						57			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: TDS (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)
3/26/2019								90	
3/27/2019							75		170
4/1/2019						54			
4/2/2019	72				134				
4/3/2019		89	63	57					
9/24/2019					157				
9/25/2019	81			75		51			
9/26/2019		126	72						
10/8/2019									172
10/9/2019							119	98	
3/17/2020									165
3/19/2020						47			
3/24/2020	71	91	59	76	117			84	
3/25/2020							158		
9/22/2020									141
9/23/2020	99	103	81						
9/24/2020				69	113	51	170	77	
9/25/2020									
3/1/2021						23			145
3/3/2021	57	95	37	53					
3/4/2021					110		168	57	
8/19/2021						50			134
8/26/2021			31				249		
8/27/2021	93	112		67					
9/1/2021					137				
9/3/2021								88	
2/8/2022							248	93	151
2/9/2022	81	103	60	72	131				
2/10/2022									
2/11/2022						66			
8/30/2022	81	100	52		122				
8/31/2022				62		33	242	92	116
9/1/2022									
2/7/2023	78	96	55	89	163		224		
2/8/2023						43		115	141
8/15/2023	74	96	81	62	126		225	83	186
8/16/2023						48			
2/20/2024	77	129		164	156	55	233	109	159
2/22/2024									
2/23/2024			52						
8/20/2024	86	128		75	143	69			155
8/21/2024			79				235	94	
8/23/2024									
2/25/2025	93	110	69	69	110	51	228	86	147
2/26/2025									

Time Series

Constituent: TDS (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38
6/2/2016	
6/6/2016	
6/7/2016	
7/25/2016	
7/27/2016	
7/28/2016	
8/30/2016	
9/16/2016	
9/19/2016	
11/1/2016	
11/2/2016	
11/3/2016	
11/14/2016	
1/11/2017	
1/13/2017	
1/16/2017	
2/21/2017	
2/24/2017	
3/1/2017	
3/2/2017	
3/6/2017	
4/26/2017	
5/2/2017	
5/8/2017	
6/28/2017	
6/29/2017	
6/30/2017	
7/11/2017	
10/3/2017	
10/4/2017	
10/5/2017	
10/10/2017	
10/11/2017	
10/12/2017	1360
11/20/2017	1390
1/10/2018	
1/11/2018	
1/12/2018	1400
2/19/2018	
2/20/2018	1300
4/2/2018	
4/3/2018	1390
6/5/2018	
6/6/2018	
6/7/2018	
6/11/2018	
6/28/2018	1310
8/7/2018	1340
9/19/2018	
9/24/2018	1400
9/25/2018	
10/2/2018	

Time Series

Constituent: TDS (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38
3/26/2019	
3/27/2019	1190
4/1/2019	
4/2/2019	
4/3/2019	
9/24/2019	
9/25/2019	
9/26/2019	
10/8/2019	
10/9/2019	1100
3/17/2020	
3/19/2020	
3/24/2020	
3/25/2020	883
9/22/2020	
9/23/2020	
9/24/2020	
9/25/2020	664
3/1/2021	
3/3/2021	
3/4/2021	600
8/19/2021	
8/26/2021	562
8/27/2021	
9/1/2021	
9/3/2021	
2/8/2022	
2/9/2022	
2/10/2022	541
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	499
2/7/2023	
2/8/2023	579
8/15/2023	
8/16/2023	460
2/20/2024	
2/22/2024	403
2/23/2024	
8/20/2024	
8/21/2024	
8/23/2024	418
2/25/2025	
2/26/2025	347

Time Series

Constituent: TDS (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-41	YGWC-23S	YGWC-24SB	YGWC-36A	YGWC-42	YGWC-43	YGWC-49	YGWC-50	YAMW-1
6/7/2016		130							
6/8/2016			66						
7/28/2016		119							
8/1/2016			56						
8/30/2016					1650				
8/31/2016						80			
9/1/2016							228		
9/2/2016				243					
9/20/2016		132	53						
11/8/2016		146	58						
11/14/2016				272					
11/15/2016							211		
11/16/2016					1420	112			
1/16/2017		194							
1/17/2017			56						
2/24/2017						147			
2/27/2017					1640		382		
2/28/2017				306					
3/8/2017			192						
3/9/2017		288							
5/2/2017		221	113						
5/9/2017				303			154		
5/10/2017					1630	203			
7/7/2017			46						
7/10/2017		123							
7/11/2017					1800	238			
7/13/2017				282			192		
9/22/2017				309					
9/29/2017				273					
10/5/2017			48						
10/6/2017				287					
10/11/2017		100		264			177		
10/12/2017	636				1600	287			
11/21/2017	706								
1/11/2018	701								
2/19/2018	630								
4/3/2018	660								
4/4/2018					1520	292	174		
6/12/2018		115	79						
6/13/2018				292					
6/27/2018	575								
8/7/2018	574								
9/20/2018					1240	434	186		
9/24/2018	588								
9/26/2018			59	277					
9/27/2018		105							
10/16/2018									209
3/27/2019					1100				
3/28/2019	372					323	164		
4/4/2019		85	63	240					
9/26/2019			81	198			192		
9/27/2019		96							

Time Series

Constituent: TDS (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-41	YGWC-23S	YGWC-24SB	YGWC-36A	YGWC-42	YGWC-43	YGWC-49	YGWC-50	YAMW-1
10/9/2019	440				1170	501			
3/25/2020	428			164	1200	352	130		139
3/26/2020		110	67						
9/23/2020			87						
9/24/2020		129			1060		187		106
9/25/2020	307					494			
10/7/2020				137					
3/3/2021			70						121
3/4/2021	224	96		69	501	592	145		
8/25/2021		141			886				
8/26/2021	225								
9/1/2021			96				163		219
9/3/2021				89					
9/27/2021						158			
2/8/2022	226					294	164		
2/10/2022		180	78		882				281
2/11/2022				81					
8/31/2022							207		336
9/1/2022	205	191		108	934	366			
2/8/2023	257	158			853	333			
2/9/2023				116			145		347
2/10/2023			66						
8/16/2023	266	170	68	234	904	356	159		363
8/17/2023								2010	
12/20/2023								1930	
2/21/2024		192					173		
2/22/2024	224				881	313		1930	
2/23/2024			75	308					454
6/10/2024								2030	
8/21/2024		193							
8/22/2024			82	783	830	412	159		548
8/23/2024	225							2050	
11/26/2024								2010	
2/26/2025	215			421	849		150	2040	499
2/27/2025		218				415			
3/17/2025			70						
5/21/2025								2090	

Time Series

Constituent: TDS (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-2
6/7/2016	
6/8/2016	
7/28/2016	
8/1/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/20/2016	
11/8/2016	
11/14/2016	
11/15/2016	
11/16/2016	
1/16/2017	
1/17/2017	
2/24/2017	
2/27/2017	
2/28/2017	
3/8/2017	
3/9/2017	
5/2/2017	
5/9/2017	
5/10/2017	
7/7/2017	
7/10/2017	
7/11/2017	
7/13/2017	
9/22/2017	
9/29/2017	
10/5/2017	
10/6/2017	
10/11/2017	
10/12/2017	
11/21/2017	
1/11/2018	
2/19/2018	
4/3/2018	
4/4/2018	
6/12/2018	
6/13/2018	
6/27/2018	
8/7/2018	
9/20/2018	
9/24/2018	
9/26/2018	
9/27/2018	
10/16/2018	
3/27/2019	
3/28/2019	
4/4/2019	
9/26/2019	
9/27/2019	

Time Series

Constituent: TDS (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-2
10/9/2019	
3/25/2020	
3/26/2020	
9/23/2020	62
9/24/2020	
9/25/2020	
10/7/2020	
3/3/2021	40
3/4/2021	
8/25/2021	
8/26/2021	
9/1/2021	60
9/3/2021	
9/27/2021	
2/8/2022	
2/10/2022	48
2/11/2022	
8/31/2022	
9/1/2022	52
2/8/2023	190
2/9/2023	
2/10/2023	
8/16/2023	
8/17/2023	55
12/20/2023	
2/21/2024	
2/22/2024	55
2/23/2024	
6/10/2024	
8/21/2024	94
8/22/2024	
8/23/2024	
11/26/2024	
2/26/2025	47
2/27/2025	
3/17/2025	
5/21/2025	

Time Series

Constituent: TDS (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-3	YAMW-4	YAMW-5	PZ-35	PZ-37D	PZ-37	PZ-51	PZ-52D	PZ-54D
10/12/2017						1060			
11/21/2017						1100			
1/11/2018						1020			
2/20/2018						1050			
4/3/2018						1080			
6/29/2018						979			
8/6/2018						1020			
9/24/2018						1090			
10/16/2018				123					
3/25/2020				84					
9/23/2020		329							
9/24/2020			788	100					
9/25/2020						878			
3/3/2021		245							
3/4/2021			604	59		856			
5/13/2021					381				
8/25/2021		332				876			
8/26/2021			570						
9/1/2021				128					
9/3/2021					374				
11/4/2021								426	
2/10/2022	606	346	499	130		798	574		
2/11/2022					382			456	
4/4/2022						796			
4/7/2022						856			
8/31/2022				173					
9/1/2022	632	358	662		916	908	622	544	
2/8/2023		402	660		477	822		542	
2/9/2023	727			196			582		
8/16/2023	587	416	716	256	505		612		
8/17/2023						938		600	
2/21/2024	753				548	834		557	
2/22/2024		424	681				556		
2/23/2024				299					
6/12/2024									775
8/21/2024					728	834		599	
8/22/2024	742			267			601		
8/23/2024		415	699						
11/7/2024									643
2/25/2025				373					
2/26/2025	732	456							
2/27/2025			652		497	868	619	580	614

Time Series

Constituent: TDS (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	PZ-55
10/12/2017	
11/21/2017	
1/11/2018	
2/20/2018	
4/3/2018	
6/29/2018	
8/6/2018	
9/24/2018	
10/16/2018	
3/25/2020	
9/23/2020	
9/24/2020	
9/25/2020	
3/3/2021	
3/4/2021	
5/13/2021	
8/25/2021	
8/26/2021	
9/1/2021	
9/3/2021	
11/4/2021	
2/10/2022	
2/11/2022	
4/4/2022	
4/7/2022	
8/31/2022	
9/1/2022	
2/8/2023	
2/9/2023	
8/16/2023	
8/17/2023	
2/21/2024	
2/22/2024	297
2/23/2024	
6/12/2024	
8/21/2024	292
8/22/2024	
8/23/2024	
11/7/2024	
2/25/2025	
2/26/2025	
2/27/2025	273

Time Series

Constituent: Thallium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
5/1/2007	<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			<0.001			
6/2/2016					<0.001		<0.001	<0.001	<0.001
7/21/2016	<0.001								
7/25/2016			<0.001			<0.001			
7/26/2016		<0.001			0.0001 (J)		<0.001	<0.001	<0.001
8/31/2016	<0.001								
9/13/2016		<0.001	<0.001						
9/14/2016				<0.001		<0.001	<0.001	<0.001	<0.001
9/15/2016					<0.001				
11/1/2016		<0.001			<0.001	<0.001			
11/2/2016							<0.001	<0.001	
11/4/2016			<0.001	<0.001					<0.001
11/28/2016	<0.001								
12/15/2016				<0.001					
1/10/2017									
1/11/2017		<0.001			<0.001	<0.001			
1/12/2017								<0.001	<0.001
1/13/2017							<0.001		
1/16/2017			<0.001	<0.001					
2/22/2017	<0.001								
3/1/2017						<0.001			
3/2/2017		<0.001	<0.001		<0.001				
3/3/2017				<0.001					
3/6/2017							<0.001		
3/7/2017								<0.001	<0.001
3/8/2017									
4/26/2017					<0.001	<0.001			
4/27/2017		<0.001	<0.001						
4/28/2017				<0.001					
5/1/2017							<0.001	<0.001	
5/2/2017									<0.001
5/8/2017	6E-05 (J)								
5/26/2017				<0.001					
6/27/2017		<0.001	<0.001					<0.001	<0.001
6/28/2017				<0.001	<0.001	<0.001			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/29/2017							<0.001		
6/30/2017									
7/17/2017	6E-05 (J)								
10/16/2017	7E-05 (J)								
2/19/2018	<0.001								
3/27/2018			<0.001						
3/28/2018				<0.001	<0.001	<0.001			
3/29/2018		<0.001					<0.001	<0.001	<0.001
8/6/2018	<0.001								
2/25/2019	<0.001								
2/26/2019									
2/27/2019		<0.001	<0.001	<0.001	<0.001	<0.001			
3/4/2019							<0.001	<0.001	<0.001
4/3/2019							<0.001	<0.001	<0.001
6/12/2019	<0.001								
8/19/2019	5.5E-05 (J)								
9/24/2019								<0.001	<0.001
9/25/2019							<0.001		
10/8/2019	<0.001								
2/10/2020		<0.001	5.5E-05 (J)						
2/11/2020				<0.001		<0.001			
2/12/2020					<0.001		<0.001	<0.001	<0.001
3/17/2020	<0.001								
3/18/2020			<0.001						
3/19/2020		<0.001		<0.001	<0.001	<0.001			
3/24/2020								<0.001	<0.001
3/25/2020							<0.001		
8/26/2020	<0.001								
9/22/2020	<0.001						<0.001	<0.001	<0.001
9/23/2020		<0.001	<0.001	<0.001	<0.001	0.00016 (J)			
9/25/2020									
2/8/2021								<0.001	<0.001
2/9/2021							<0.001		
2/10/2021				<0.001	<0.001	<0.001			
2/12/2021		<0.001	<0.001						
3/2/2021	<0.001								
8/20/2021	<0.001								
2/8/2022	<0.001								
2/9/2022		<0.001	<0.001	<0.001	<0.001	<0.001			
2/10/2022								<0.001	<0.001
2/11/2022							<0.001		
8/30/2022	<0.001	<0.001		<0.001				<0.001	<0.001
8/31/2022			<0.001		<0.001	<0.001	<0.001		
2/7/2023	<0.001	<0.001	<0.001	<0.001				<0.001	
2/8/2023					<0.001	<0.001			
2/9/2023							<0.001		<0.001
8/15/2023	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001
8/16/2023						<0.001			
2/20/2024	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/23/2024									
8/20/2024		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/25/2025		<0.001	<0.001	<0.001	0.00043 (J)	0.00053 (J)	<0.001	<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (bg)
5/1/2007	
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	
6/2/2016	<0.001
7/21/2016	
7/25/2016	
7/26/2016	<0.001
8/31/2016	
9/13/2016	
9/14/2016	
9/15/2016	<0.001
11/1/2016	
11/2/2016	<0.001
11/4/2016	
11/28/2016	
12/15/2016	
1/10/2017	<0.001
1/11/2017	
1/12/2017	
1/13/2017	
1/16/2017	
2/22/2017	
3/1/2017	
3/2/2017	
3/3/2017	
3/6/2017	
3/7/2017	
3/8/2017	<0.001
4/26/2017	<0.001
4/27/2017	
4/28/2017	
5/1/2017	
5/2/2017	
5/8/2017	
5/26/2017	
6/27/2017	
6/28/2017	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (bg)
6/29/2017	
6/30/2017	<0.001
7/17/2017	
10/16/2017	
2/19/2018	
3/27/2018	<0.001
3/28/2018	
3/29/2018	
8/6/2018	
2/25/2019	
2/26/2019	<0.001
2/27/2019	
3/4/2019	
4/3/2019	
6/12/2019	
8/19/2019	
9/24/2019	
9/25/2019	
10/8/2019	
2/10/2020	
2/11/2020	
2/12/2020	8.9E-05 (J)
3/17/2020	
3/18/2020	<0.001
3/19/2020	
3/24/2020	
3/25/2020	
8/26/2020	
9/22/2020	
9/23/2020	
9/25/2020	<0.001
2/8/2021	
2/9/2021	
2/10/2021	<0.001
2/12/2021	
3/2/2021	
8/20/2021	
2/8/2022	
2/9/2022	
2/10/2022	<0.001
2/11/2022	
8/30/2022	
8/31/2022	<0.001
2/7/2023	
2/8/2023	<0.001
2/9/2023	
8/15/2023	<0.001
8/16/2023	
2/20/2024	
2/23/2024	<0.001
8/20/2024	<0.001
2/25/2025	<0.001

Time Series

Constituent: Thallium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)
6/2/2016						<0.001			
6/6/2016		<0.001	<0.001						
6/7/2016	<0.001			<0.001	<0.001				
7/25/2016						<0.001			
7/27/2016	<0.001	<0.001	<0.001	<0.001					
7/28/2016					<0.001				
8/30/2016									<0.001
9/16/2016	<0.001		<0.001						
9/19/2016		<0.001		<0.001	<0.001	<0.001			
11/1/2016						<0.001			
11/2/2016				<0.001					
11/3/2016	<0.001	<0.001	<0.001		<0.001				
11/14/2016									<0.001
1/11/2017	<0.001	<0.001	<0.001						
1/13/2017				<0.001	<0.001				
1/16/2017						<0.001			
2/21/2017						<0.001			
2/24/2017									<0.001
3/1/2017		<0.001	<0.001						
3/2/2017	<0.001								
3/6/2017				<0.001	<0.001				
4/26/2017		<0.001	<0.001	<0.001	<0.001	<0.001			
5/2/2017	<0.001								
5/8/2017									<0.001
6/28/2017		<0.001	<0.001						
6/29/2017	<0.001			<0.001	<0.001				
6/30/2017						<0.001			
7/11/2017									<0.001
10/10/2017									<0.001
10/11/2017							<0.001		
10/12/2017								<0.001	
11/20/2017							<0.001	<0.001	
1/10/2018								<0.001	
1/11/2018							<0.001		
1/12/2018									
2/19/2018								<0.001	
2/20/2018							<0.001		
3/27/2018						<0.001			
3/28/2018	<0.001	<0.001	<0.001						
3/29/2018				<0.001	<0.001				
4/2/2018									<0.001
4/3/2018							<0.001	<0.001	
6/28/2018							<0.001	<0.001	
8/7/2018							<0.001	<0.001	
9/19/2018									<0.001
9/24/2018							<0.001	<0.001	
2/26/2019						<0.001			
3/5/2019	<0.001		<0.001	<0.001	<0.001				
3/6/2019		<0.001							
4/2/2019	<0.001				<0.001				
4/3/2019		<0.001	<0.001	<0.001					
8/20/2019									5.8E-05 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)
8/21/2019							<0.001	<0.001	
8/22/2019									
9/24/2019					<0.001				
9/25/2019	<0.001			<0.001					
9/26/2019		<0.001	<0.001						
10/8/2019									8.4E-05 (J)
2/11/2020	<0.001	<0.001	<0.001						
2/12/2020				<0.001	<0.001	<0.001	<0.001	<0.001	
2/14/2020									
3/17/2020									<0.001
3/19/2020						<0.001			
3/24/2020	<0.001	<0.001	<0.001	<0.001	<0.001			<0.001	
3/25/2020							<0.001		
8/27/2020									<0.001
9/23/2020	<0.001	<0.001	<0.001						
9/24/2020				<0.001	<0.001	<0.001	<0.001	<0.001	
9/25/2020									
2/9/2021	<0.001	<0.001	<0.001	<0.001	<0.001				
2/10/2021							<0.001	<0.001	
2/11/2021						<0.001			
8/19/2021									<0.001
2/8/2022							<0.001	<0.001	<0.001
2/9/2022	<0.001	<0.001	<0.001	<0.001	<0.001				
2/10/2022									
2/11/2022						<0.001			
8/30/2022	<0.001	<0.001	<0.001		<0.001				
8/31/2022				<0.001		<0.001	<0.001	<0.001	<0.001
9/1/2022									
2/7/2023	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001		
2/8/2023						<0.001		<0.001	<0.001
8/15/2023	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001
8/16/2023						<0.001			
2/20/2024	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/22/2024									
2/23/2024			<0.001						
8/20/2024	<0.001	<0.001		<0.001	<0.001	<0.001			<0.001
8/21/2024			<0.001				<0.001	<0.001	
8/23/2024									
2/25/2025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/26/2025									

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38
6/2/2016	
6/6/2016	
6/7/2016	
7/25/2016	
7/27/2016	
7/28/2016	
8/30/2016	
9/16/2016	
9/19/2016	
11/1/2016	
11/2/2016	
11/3/2016	
11/14/2016	
1/11/2017	
1/13/2017	
1/16/2017	
2/21/2017	
2/24/2017	
3/1/2017	
3/2/2017	
3/6/2017	
4/26/2017	
5/2/2017	
5/8/2017	
6/28/2017	
6/29/2017	
6/30/2017	
7/11/2017	
10/10/2017	
10/11/2017	
10/12/2017	<0.001
11/20/2017	<0.001
1/10/2018	
1/11/2018	
1/12/2018	<0.001
2/19/2018	
2/20/2018	<0.001
3/27/2018	
3/28/2018	
3/29/2018	
4/2/2018	
4/3/2018	<0.001
6/28/2018	<0.001
8/7/2018	<0.001
9/19/2018	
9/24/2018	<0.001
2/26/2019	
3/5/2019	
3/6/2019	
4/2/2019	
4/3/2019	
8/20/2019	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38
8/21/2019	
8/22/2019	<0.001
9/24/2019	
9/25/2019	
9/26/2019	
10/8/2019	
2/11/2020	
2/12/2020	
2/14/2020	<0.001
3/17/2020	
3/19/2020	
3/24/2020	
3/25/2020	<0.001
8/27/2020	
9/23/2020	
9/24/2020	
9/25/2020	<0.001
2/9/2021	<0.001
2/10/2021	
2/11/2021	
8/19/2021	
2/8/2022	
2/9/2022	
2/10/2022	<0.001
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	<0.001
2/7/2023	
2/8/2023	<0.001
8/15/2023	
8/16/2023	<0.001
2/20/2024	
2/22/2024	<0.001
2/23/2024	
8/20/2024	
8/21/2024	
8/23/2024	<0.001
2/25/2025	
2/26/2025	<0.001

Time Series

Constituent: Thallium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-41	YGWC-23S	YGWC-24SB	YGWC-36A	YGWC-42	YGWC-43	YGWC-49	YGWC-50	YAMW-1
6/7/2016		<0.001							
6/8/2016			<0.001						
7/28/2016		<0.001							
8/1/2016			<0.001						
8/30/2016					<0.001				
8/31/2016						<0.001			
9/1/2016							<0.001		
9/2/2016				<0.001					
9/20/2016		<0.001	<0.001						
11/8/2016		<0.001	<0.001						
11/14/2016				<0.001					
11/15/2016							<0.001		
11/16/2016					<0.001	<0.001			
1/16/2017		<0.001							
1/17/2017			<0.001						
2/24/2017						<0.001			
2/27/2017					<0.001		9E-05 (J)		
2/28/2017				<0.001					
3/8/2017			<0.001						
3/9/2017		<0.001							
5/2/2017		<0.001	<0.001						
5/9/2017				<0.001			<0.001		
5/10/2017					<0.001	<0.001			
7/7/2017			<0.001						
7/10/2017		<0.001							
7/11/2017					<0.001	<0.001			
7/13/2017				<0.001			<0.001		
9/22/2017				<0.001					
9/29/2017				<0.001					
10/6/2017				<0.001					
10/11/2017							<0.001		
10/12/2017	<0.001				<0.001	<0.001			
11/21/2017	<0.001								
1/11/2018	<0.001								
2/19/2018	<0.001								
3/30/2018		<0.001	<0.001	<0.001					
4/3/2018	<0.001								
4/4/2018					<0.001	<0.001	<0.001		
6/27/2018	<0.001								
8/7/2018	<0.001								
9/20/2018					<0.001	<0.001	<0.001		
9/24/2018	<0.001								
3/5/2019			<0.001						
3/6/2019		<0.001		<0.001					
4/4/2019		<0.001	<0.001	<0.001					
8/21/2019						<0.001			
8/22/2019	<0.001				<0.001				
9/26/2019			<0.001	<0.001			<0.001		<0.001
9/27/2019		<0.001							
2/13/2020			<0.001						
2/14/2020	<0.001			5.7E-05 (J)	<0.001				
2/17/2020		<0.001				<0.001	<0.001		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-41	YGWC-23S	YGWC-24SB	YGWC-36A	YGWC-42	YGWC-43	YGWC-49	YGWC-50	YAMW-1
3/25/2020	<0.001			<0.001	<0.001	<0.001	<0.001		<0.001
3/26/2020		<0.001	<0.001						
9/23/2020			<0.001						
9/24/2020		<0.001			<0.001		<0.001		<0.001
9/25/2020	<0.001					<0.001			
10/7/2020				<0.001					
2/9/2021		<0.001	<0.001			<0.001	<0.001		<0.001
2/10/2021	<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
2/11/2022				<0.001					
8/31/2022							<0.001		<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						
8/16/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001
8/17/2023								<0.001	
12/20/2023								<0.001	
2/21/2024		<0.001					<0.001		
2/22/2024	<0.001				<0.001	<0.001		<0.001	
2/23/2024			<0.001	<0.001					<0.001
6/10/2024								<0.001	
8/21/2024		<0.001							
8/22/2024			<0.001	<0.001	<0.001	<0.001	<0.001		<0.001
8/23/2024	<0.001							<0.001	
11/26/2024								<0.001	
2/26/2025	<0.001			<0.001	<0.001		<0.001	0.00015 (J)	<0.001
2/27/2025		<0.001				<0.001			
3/17/2025			<0.001						
5/21/2025								<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-2
6/7/2016	
6/8/2016	
7/28/2016	
8/1/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/2/2016	
9/20/2016	
11/8/2016	
11/14/2016	
11/15/2016	
11/16/2016	
1/16/2017	
1/17/2017	
2/24/2017	
2/27/2017	
2/28/2017	
3/8/2017	
3/9/2017	
5/2/2017	
5/9/2017	
5/10/2017	
7/7/2017	
7/10/2017	
7/11/2017	
7/13/2017	
9/22/2017	
9/29/2017	
10/6/2017	
10/11/2017	
10/12/2017	
11/21/2017	
1/11/2018	
2/19/2018	
3/30/2018	
4/3/2018	
4/4/2018	
6/27/2018	
8/7/2018	
9/20/2018	
9/24/2018	
3/5/2019	
3/6/2019	
4/4/2019	
8/21/2019	
8/22/2019	
9/26/2019	
9/27/2019	
2/13/2020	
2/14/2020	
2/17/2020	

Time Series

Constituent: Thallium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-2
3/25/2020	
3/26/2020	
9/23/2020	<0.001
9/24/2020	
9/25/2020	
10/7/2020	
2/9/2021	<0.001
2/10/2021	
2/8/2022	
2/10/2022	<0.001
2/11/2022	
8/31/2022	
9/1/2022	<0.001
2/8/2023	<0.001
2/9/2023	
2/10/2023	
8/16/2023	
8/17/2023	<0.001
12/20/2023	
2/21/2024	
2/22/2024	<0.001
2/23/2024	
6/10/2024	
8/21/2024	<0.001
8/22/2024	
8/23/2024	
11/26/2024	
2/26/2025	<0.001
2/27/2025	
3/17/2025	
5/21/2025	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-3	YAMW-4	YAMW-5	PZ-35	PZ-37D	PZ-37	PZ-51	PZ-52D	PZ-54D
10/12/2017						<0.001			
11/21/2017						<0.001			
1/11/2018						<0.001			
2/20/2018						<0.001			
4/3/2018						<0.001			
6/29/2018						<0.001			
8/6/2018						<0.001			
9/24/2018						<0.001			
9/26/2019				<0.001					
3/25/2020				<0.001					
9/23/2020		<0.001							
9/24/2020			<0.001	<0.001					
9/25/2020						<0.001			
2/9/2021		<0.001	<0.001			<0.001			
2/10/2021				<0.001					
5/13/2021					<0.001				
2/10/2022	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001		
2/11/2022					<0.001			<0.001	
4/4/2022						<0.001			
4/7/2022						<0.001			
8/31/2022				<0.001					
9/1/2022	<0.001	<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			<0.001		
8/16/2023	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001		
8/17/2023						<0.001		<0.001	
2/21/2024	<0.001				<0.001	<0.001		<0.001	
2/22/2024		<0.001	<0.001				<0.001		
2/23/2024				<0.001					
6/12/2024									0.00038 (J)
8/21/2024					<0.001	<0.001		<0.001	
8/22/2024	<0.001			<0.001			<0.001		
8/23/2024		<0.001	<0.001						
11/7/2024									<0.001
2/25/2025				<0.001					
2/26/2025	<0.001	<0.001							
2/27/2025			<0.001		<0.001	<0.001	<0.001	<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 7/7/2025 12:18 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

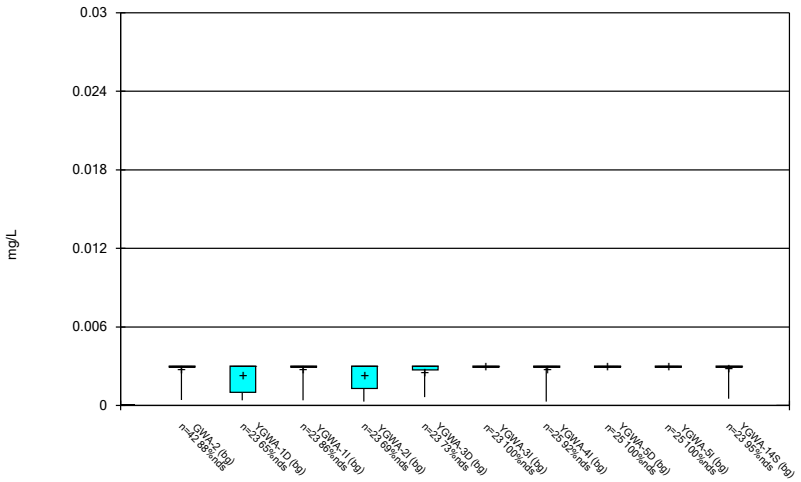
	PZ-55
10/12/2017	
11/21/2017	
1/11/2018	
2/20/2018	
4/3/2018	
6/29/2018	
8/6/2018	
9/24/2018	
9/26/2019	
3/25/2020	
9/23/2020	
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	
5/13/2021	
2/10/2022	
2/11/2022	
4/4/2022	
4/7/2022	
8/31/2022	
9/1/2022	
2/8/2023	
2/9/2023	
8/16/2023	
8/17/2023	
2/21/2024	
2/22/2024	<0.001
2/23/2024	
6/12/2024	
8/21/2024	<0.001
8/22/2024	
8/23/2024	
11/7/2024	
2/25/2025	
2/26/2025	
2/27/2025	<0.001

ND substitution: RL or RL/2 if <15% NDs.

FIGURE B.

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Box & Whiskers Plot

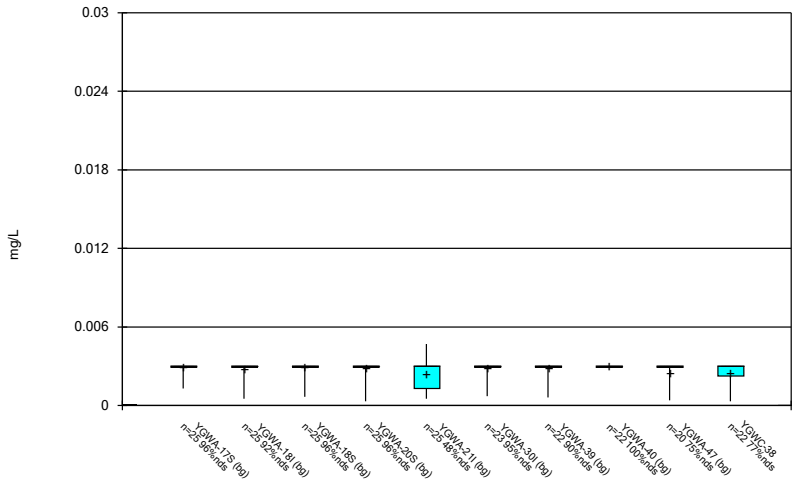


Constituent: Antimony Analysis Run 7/7/2025 2:40 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

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Box & Whiskers Plot

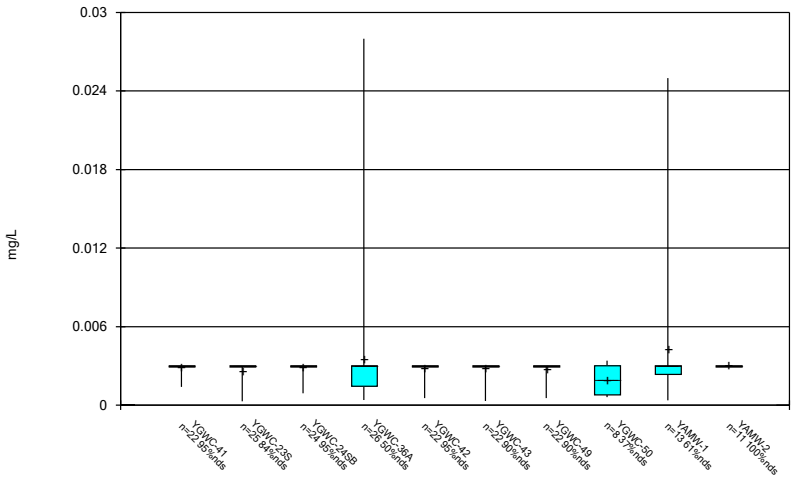


Constituent: Antimony Analysis Run 7/7/2025 2:40 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

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Box & Whiskers Plot

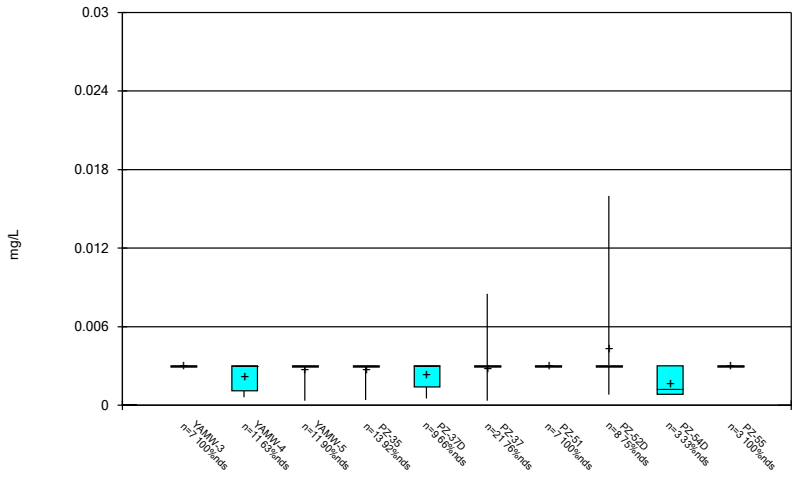


Constituent: Antimony Analysis Run 7/7/2025 2:40 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

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Box & Whiskers Plot

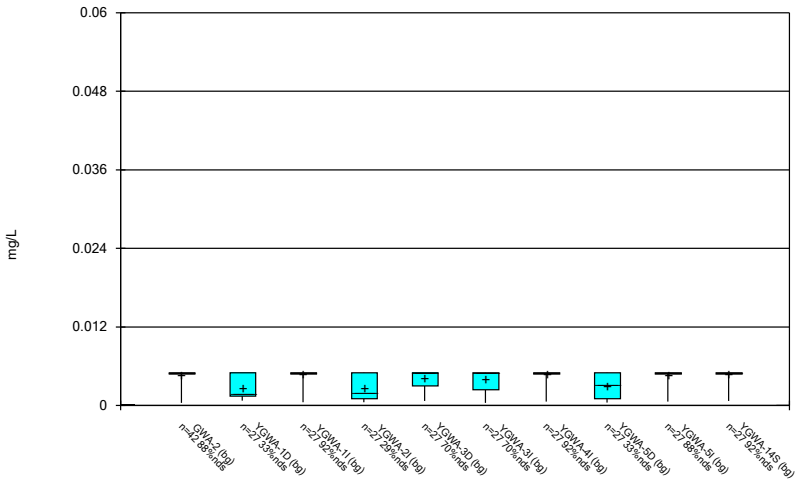


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Plant Yates Client: Southern Company Data: Yates AMA-R6

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Box & Whiskers Plot

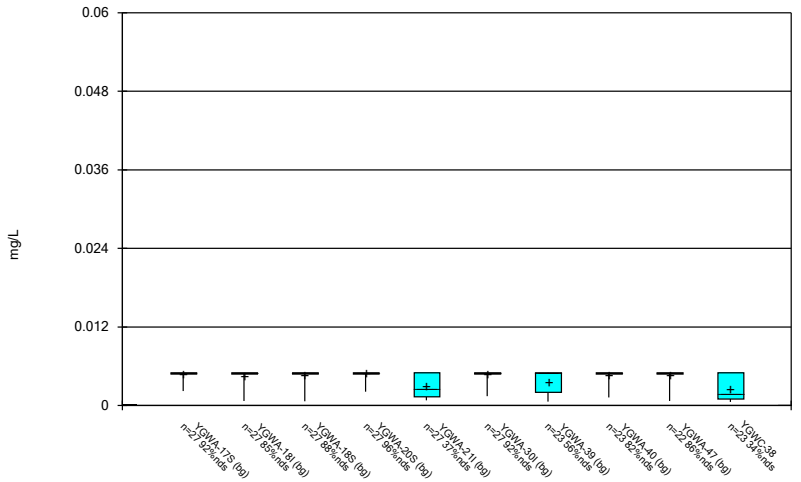


Constituent: Arsenic Analysis Run 7/7/2025 2:40 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

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Box & Whiskers Plot

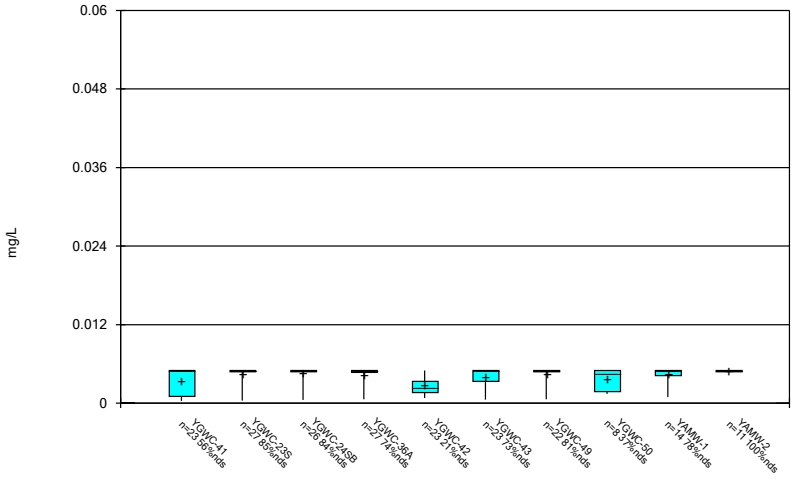


Constituent: Arsenic Analysis Run 7/7/2025 2:40 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

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Box & Whiskers Plot

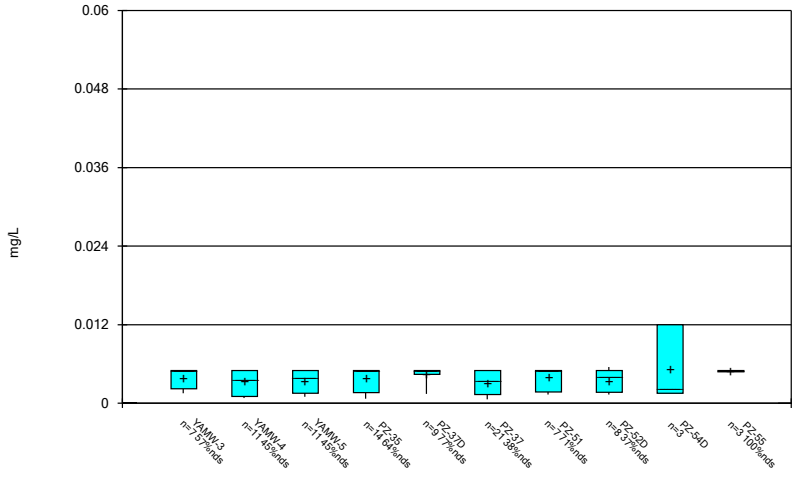


Constituent: Arsenic Analysis Run 7/7/2025 2:40 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

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Box & Whiskers Plot

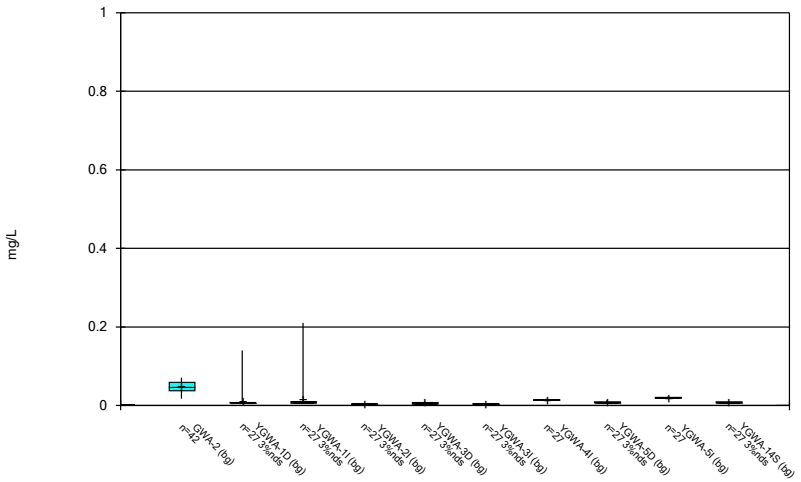


Constituent: Arsenic Analysis Run 7/7/2025 2:40 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

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Box & Whiskers Plot

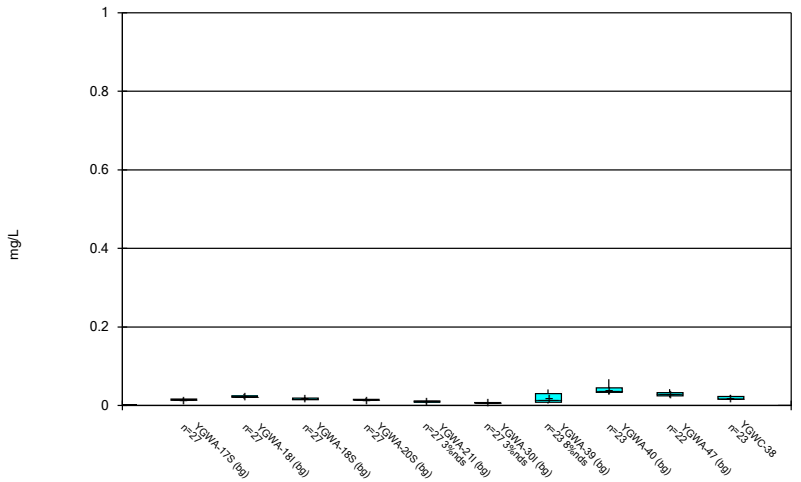


Constituent: Barium Analysis Run 7/7/2025 2:40 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

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Box & Whiskers Plot

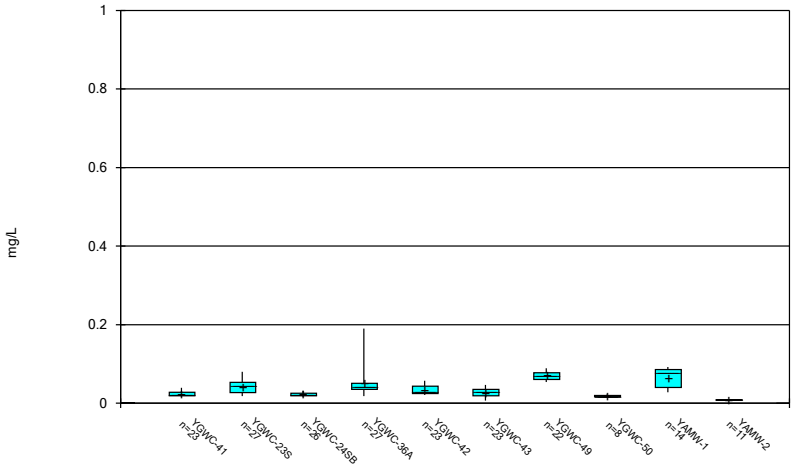


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Plant Yates Client: Southern Company Data: Yates AMA-R6

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Box & Whiskers Plot

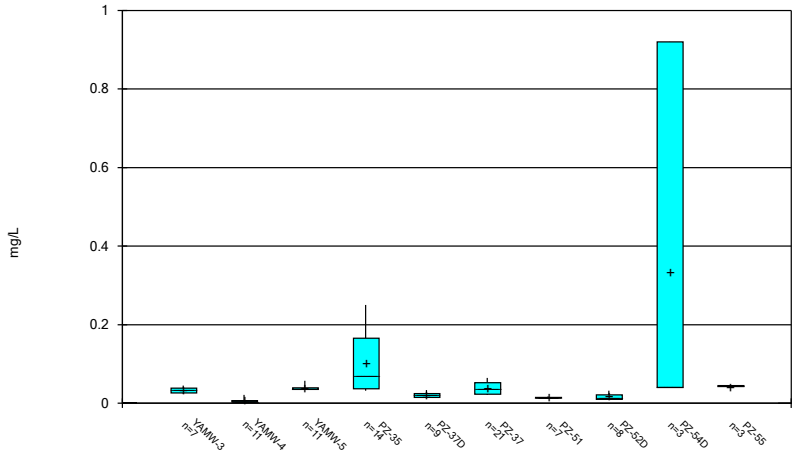


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Plant Yates Client: Southern Company Data: Yates AMA-R6

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Box & Whiskers Plot

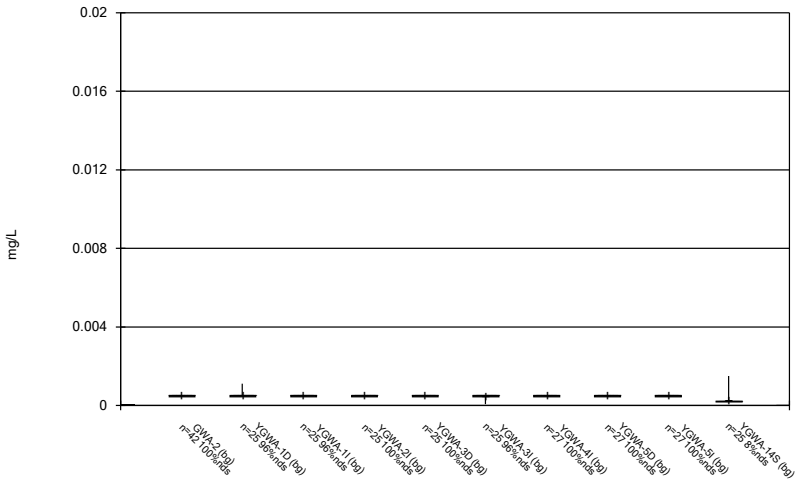


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Plant Yates Client: Southern Company Data: Yates AMA-R6

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Box & Whiskers Plot

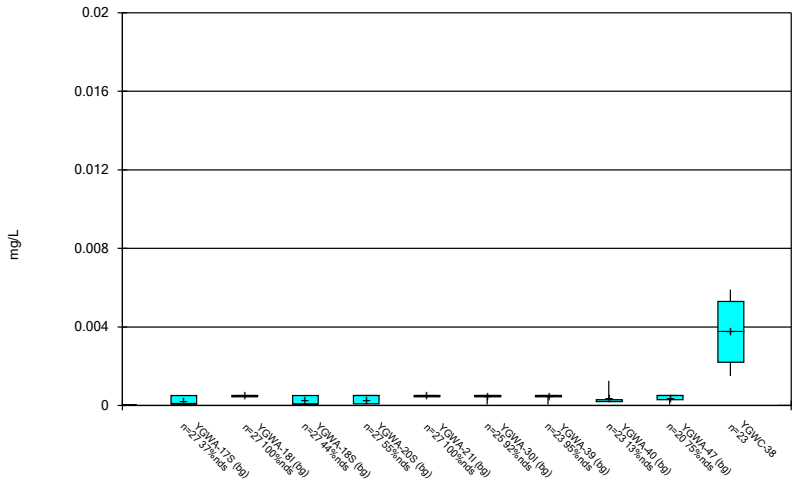


Constituent: Beryllium Analysis Run 7/7/2025 2:40 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

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Box & Whiskers Plot

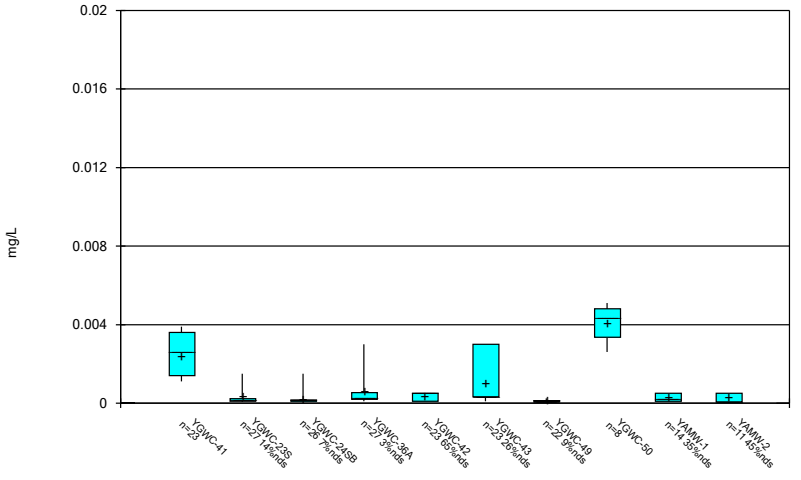


Constituent: Beryllium Analysis Run 7/7/2025 2:40 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

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Box & Whiskers Plot

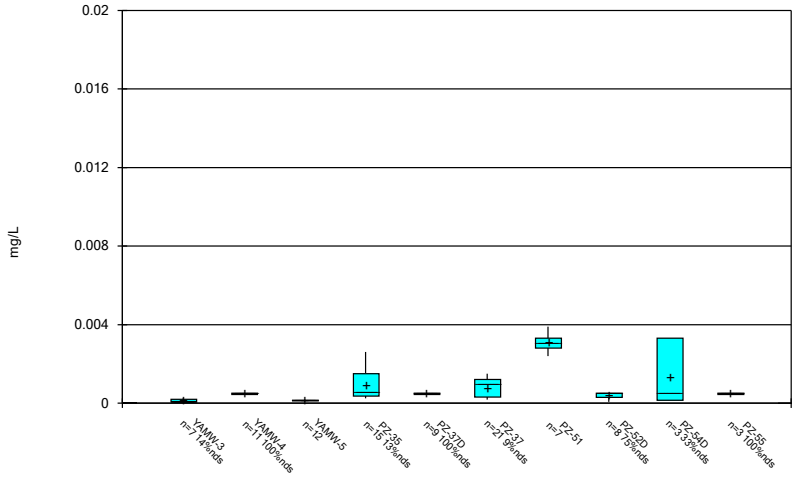


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Plant Yates Client: Southern Company Data: Yates AMA-R6

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Box & Whiskers Plot

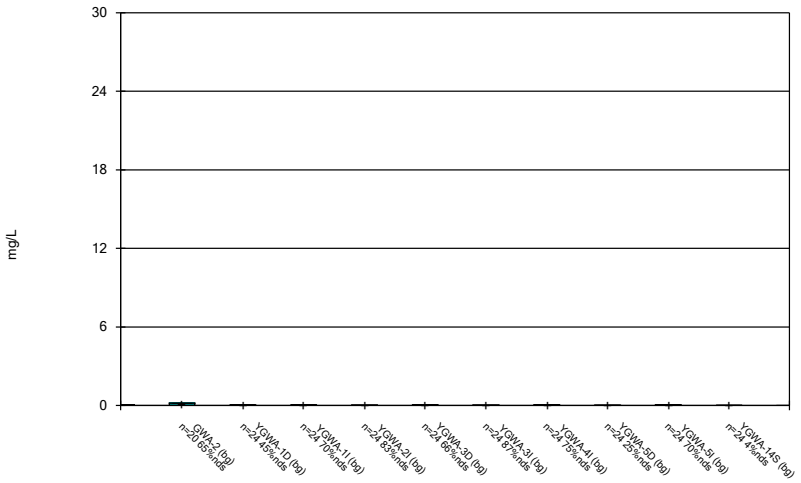


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Plant Yates Client: Southern Company Data: Yates AMA-R6

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Box & Whiskers Plot

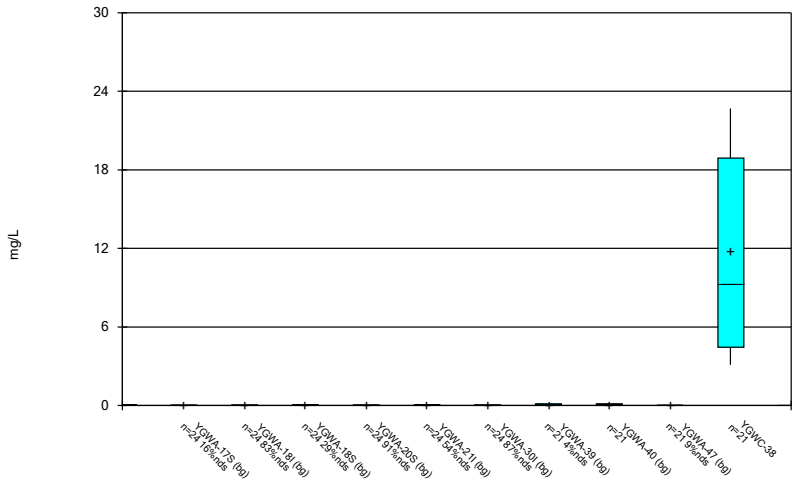


Constituent: Boron Analysis Run 7/7/2025 2:41 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

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Box & Whiskers Plot

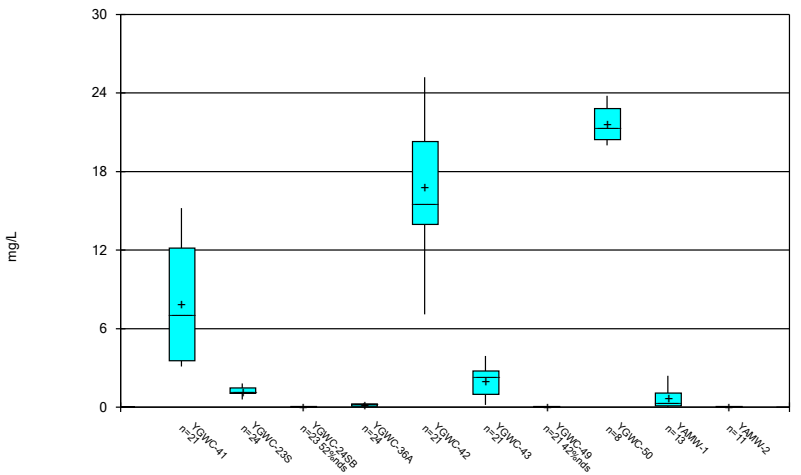


Constituent: Boron Analysis Run 7/7/2025 2:41 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

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Box & Whiskers Plot

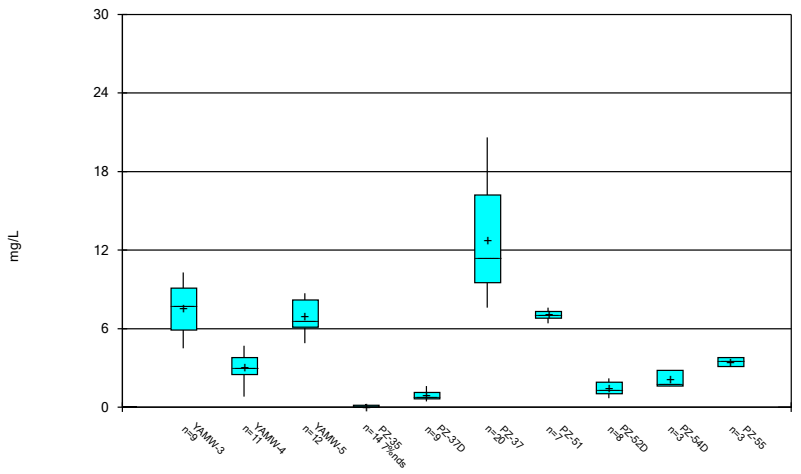


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Plant Yates Client: Southern Company Data: Yates AMA-R6

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Box & Whiskers Plot

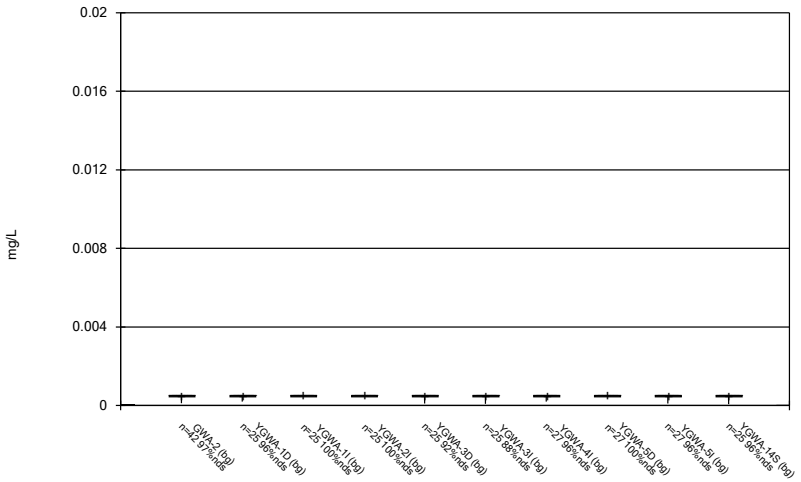


Constituent: Boron Analysis Run 7/7/2025 2:41 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

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Box & Whiskers Plot

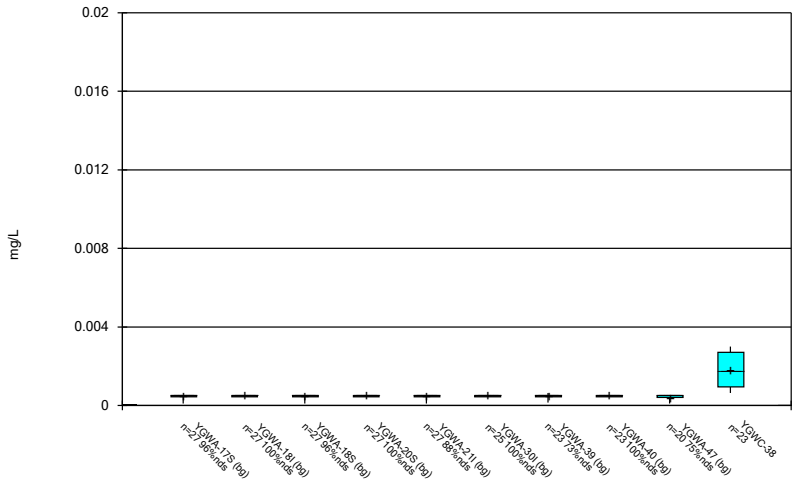


Constituent: Cadmium Analysis Run 7/7/2025 2:41 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

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Box & Whiskers Plot

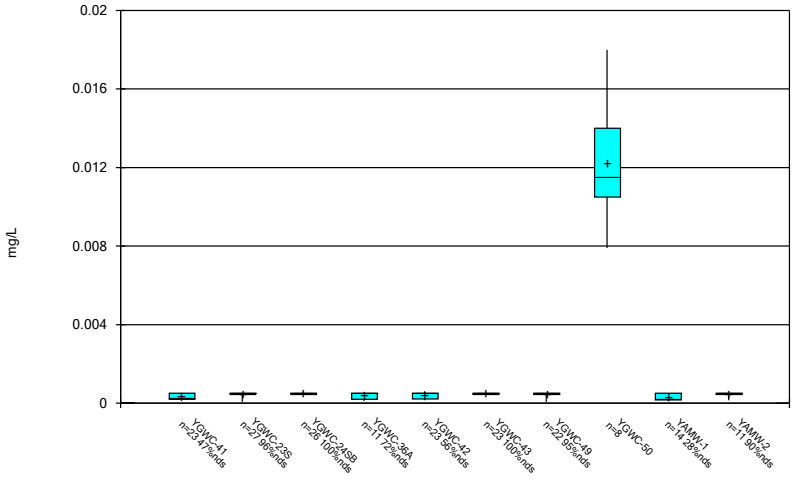


Constituent: Cadmium Analysis Run 7/7/2025 2:41 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

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Box & Whiskers Plot

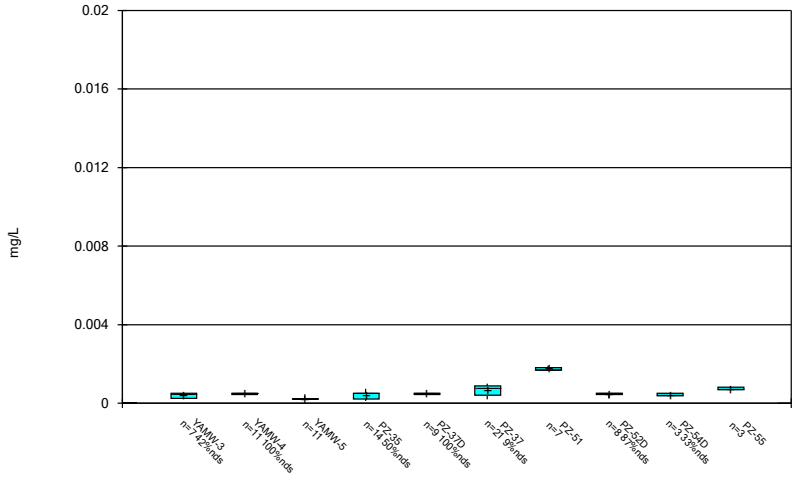


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Plant Yates Client: Southern Company Data: Yates AMA-R6

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Box & Whiskers Plot

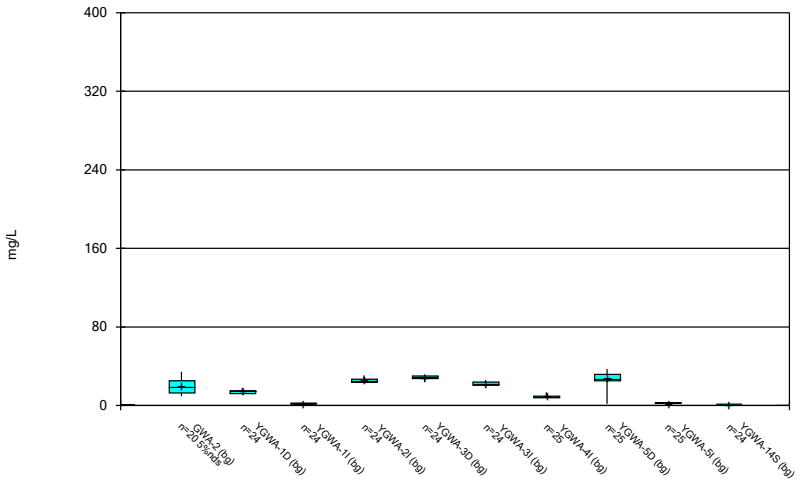


Constituent: Cadmium Analysis Run 7/7/2025 2:41 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

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Box & Whiskers Plot

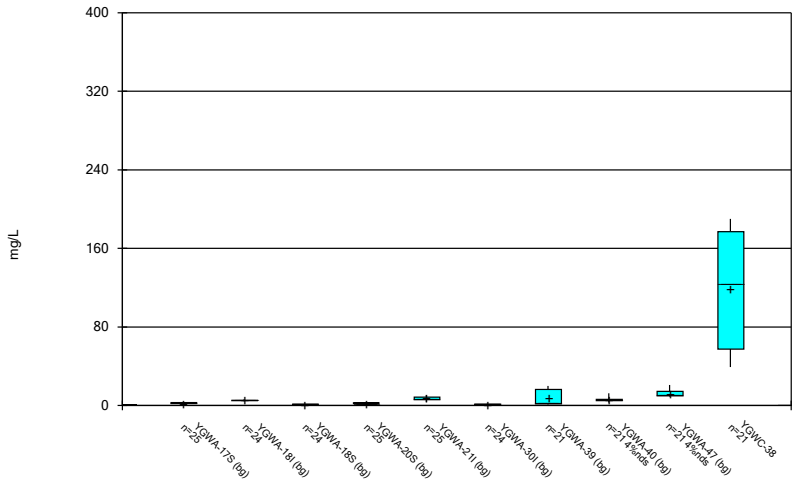


Constituent: Calcium Analysis Run 7/7/2025 2:41 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

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Box & Whiskers Plot

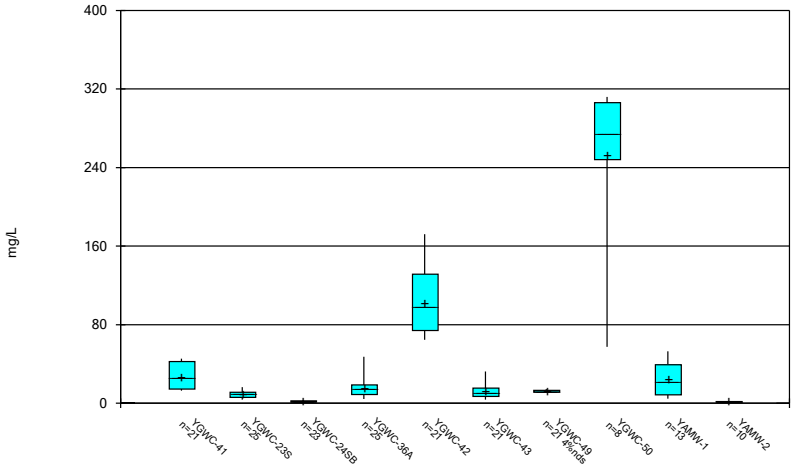


Constituent: Calcium Analysis Run 7/7/2025 2:41 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

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Box & Whiskers Plot

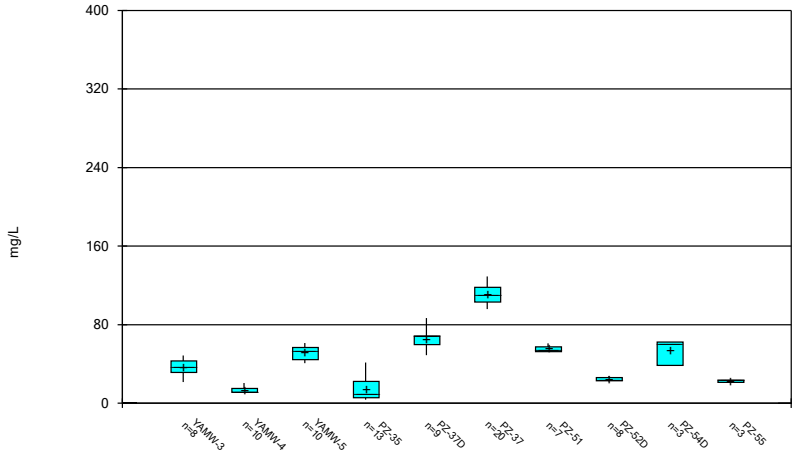


Constituent: Calcium Analysis Run 7/7/2025 2:41 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

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Box & Whiskers Plot

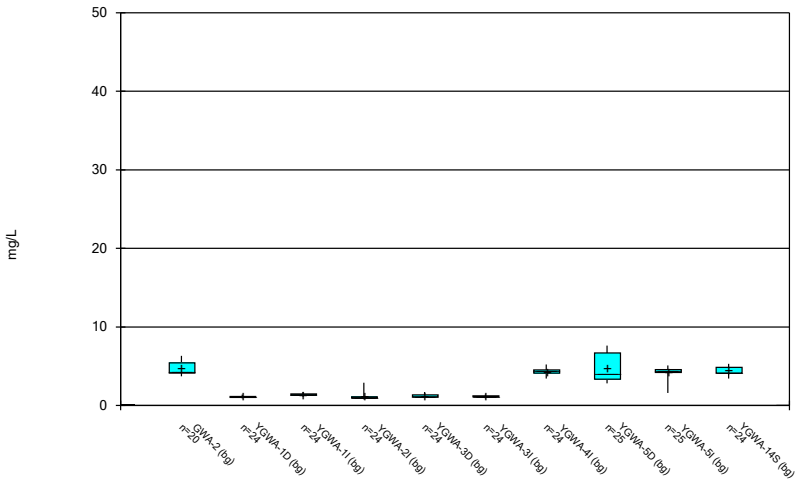


Constituent: Calcium Analysis Run 7/7/2025 2:41 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

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Box & Whiskers Plot

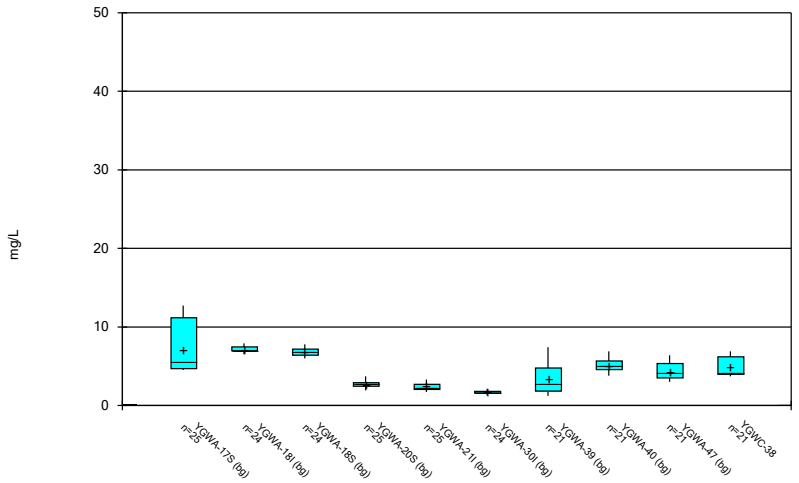


Constituent: Chloride Analysis Run 7/7/2025 2:41 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

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Box & Whiskers Plot

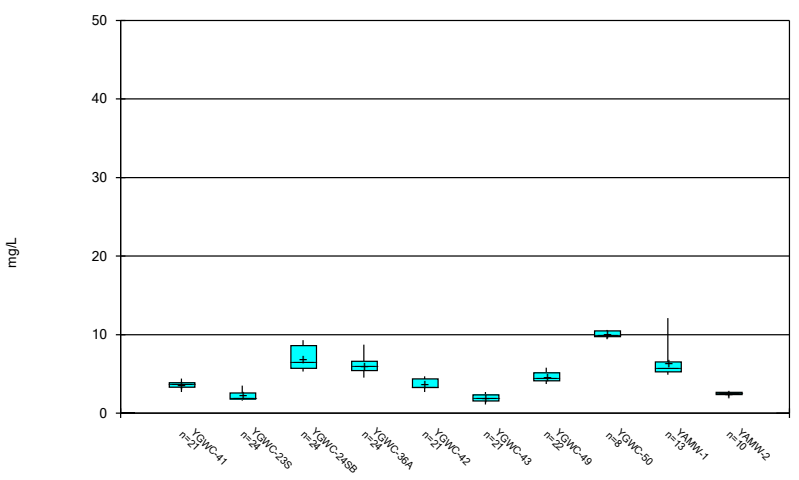


Constituent: Chloride Analysis Run 7/7/2025 2:41 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

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Box & Whiskers Plot

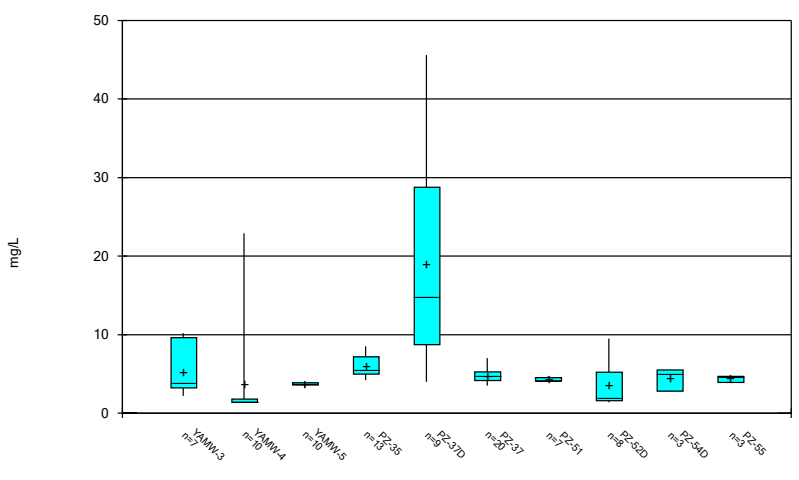


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Plant Yates Client: Southern Company Data: Yates AMA-R6

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Box & Whiskers Plot

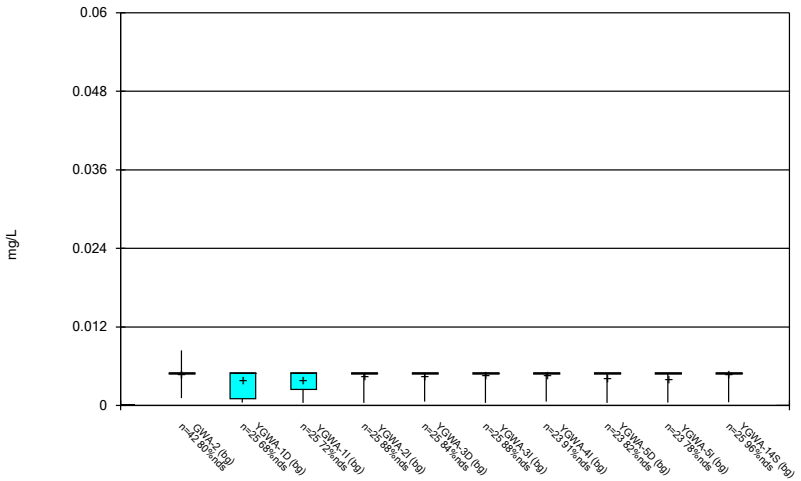


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Box & Whiskers Plot

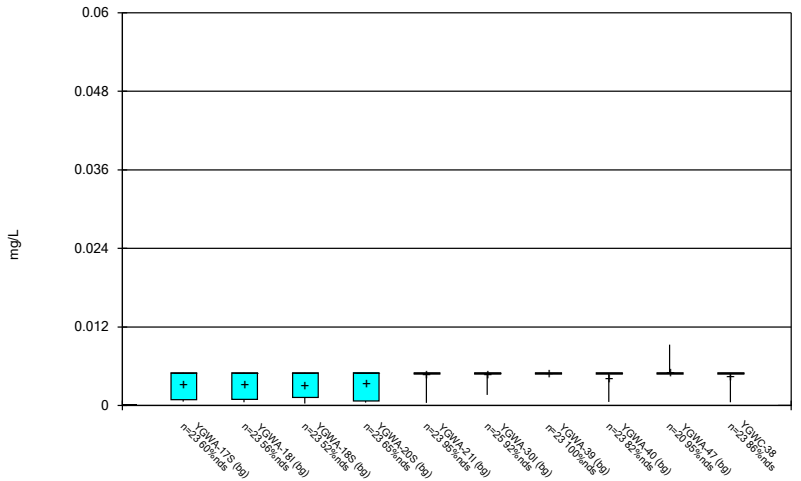


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Plant Yates Client: Southern Company Data: Yates AMA-R6

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Box & Whiskers Plot

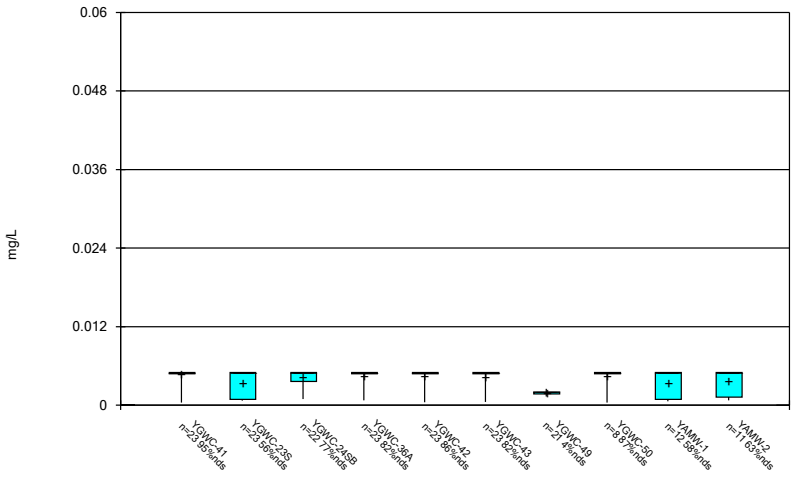


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Box & Whiskers Plot

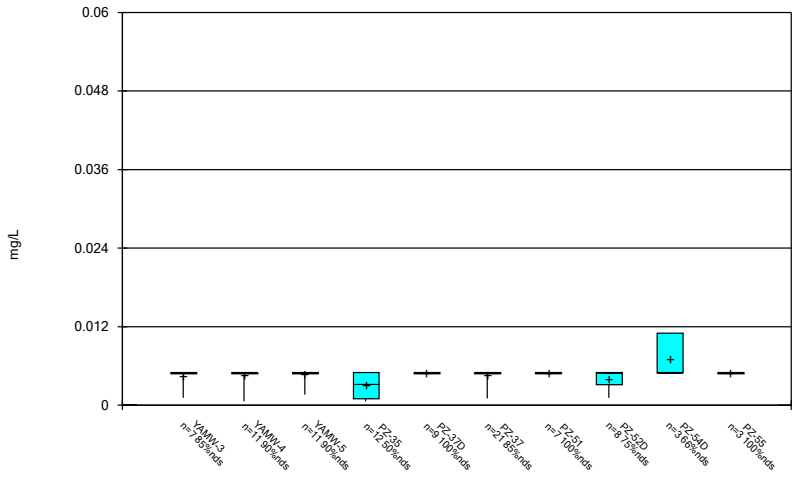


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Box & Whiskers Plot

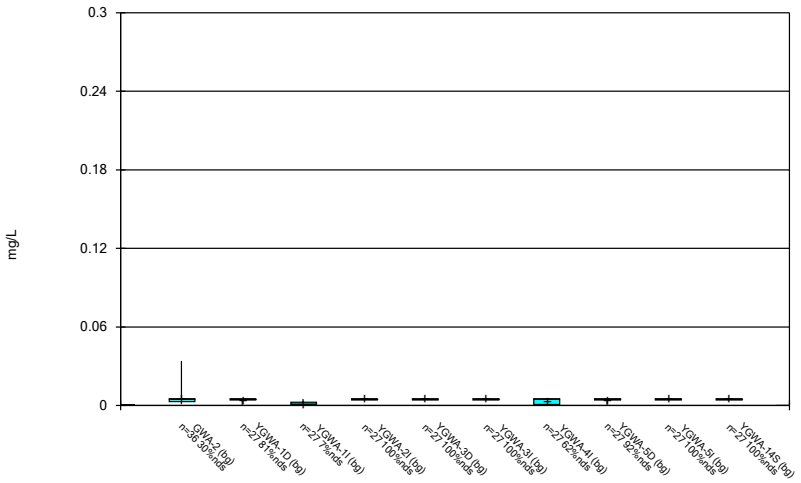


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Plant Yates Client: Southern Company Data: Yates AMA-R6

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Box & Whiskers Plot

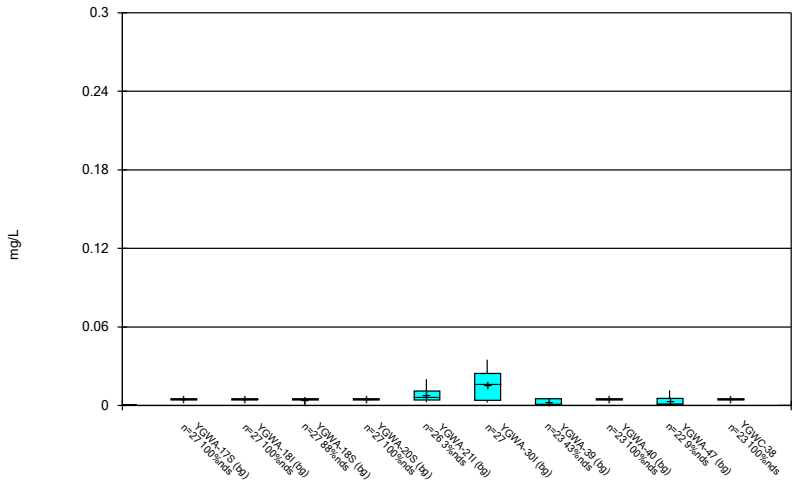


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Plant Yates Client: Southern Company Data: Yates AMA-R6

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Box & Whiskers Plot

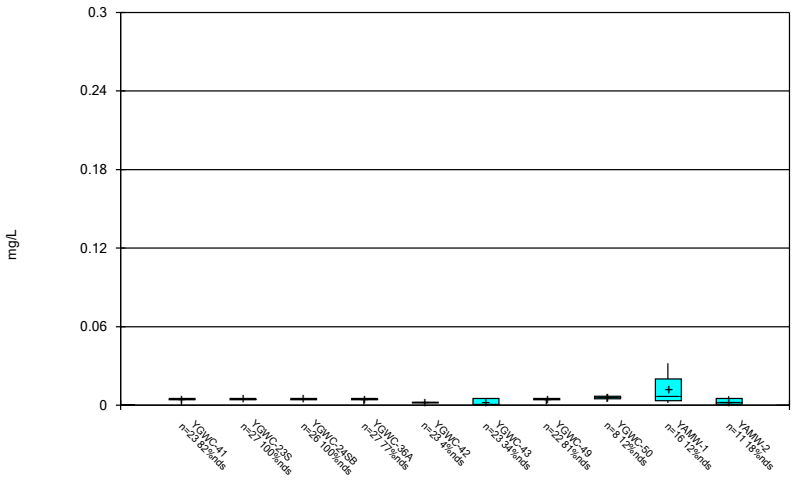


Constituent: Cobalt Analysis Run 7/7/2025 2:41 PM

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Box & Whiskers Plot

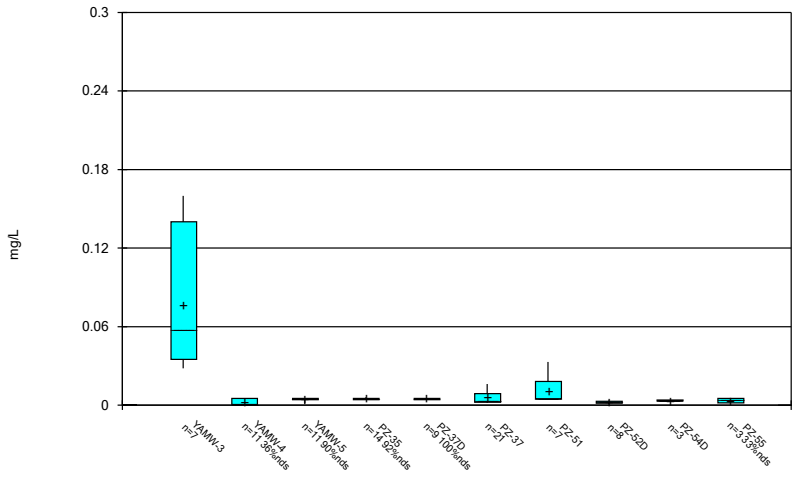


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Box & Whiskers Plot

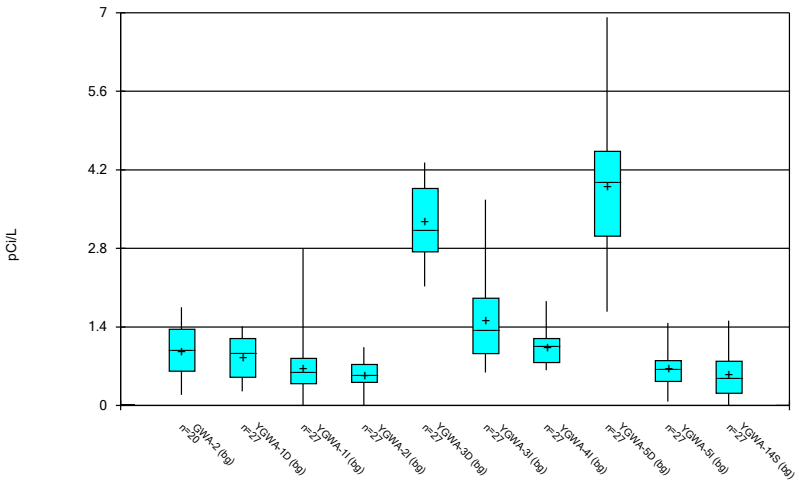


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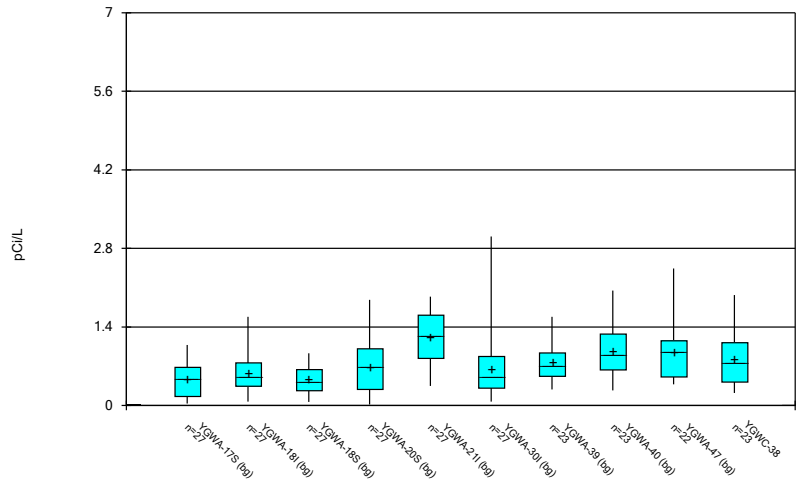
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 7/7/2025 2:41 PM
Plant Yates Client: Southern Company Data: Yates AMA-R6

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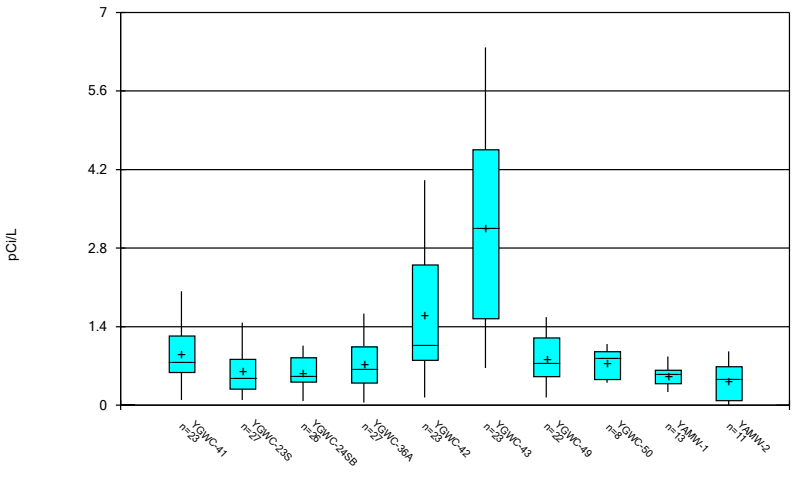
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 7/7/2025 2:41 PM
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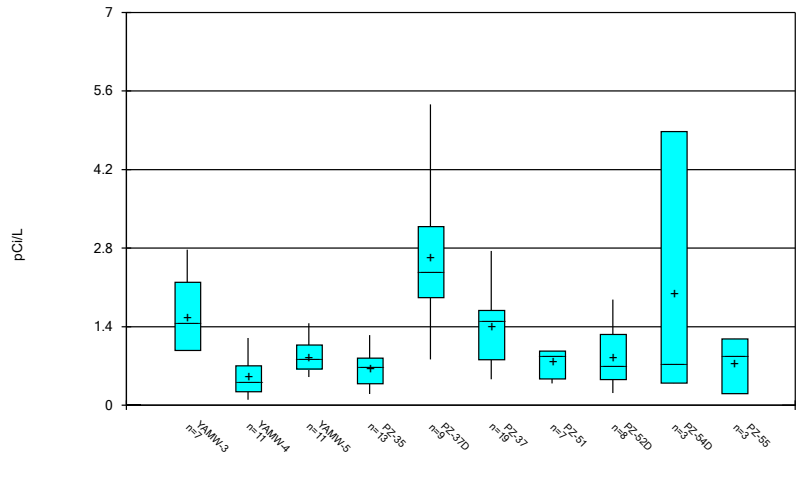
Box & Whiskers Plot



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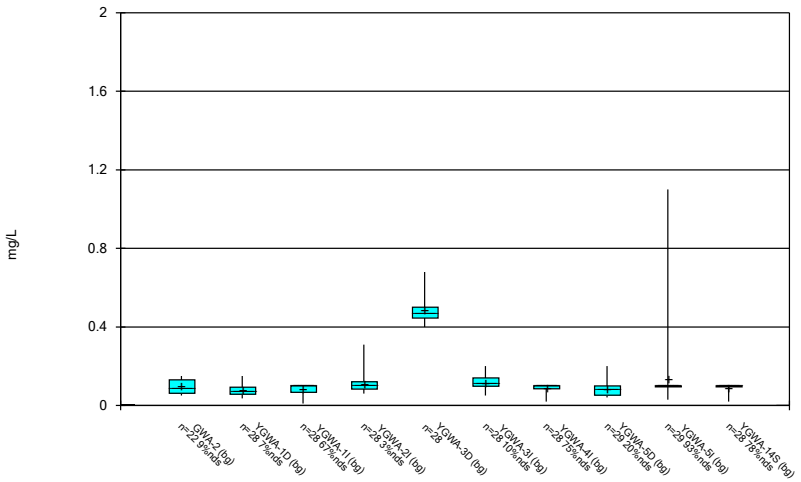
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 7/7/2025 2:41 PM
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Box & Whiskers Plot

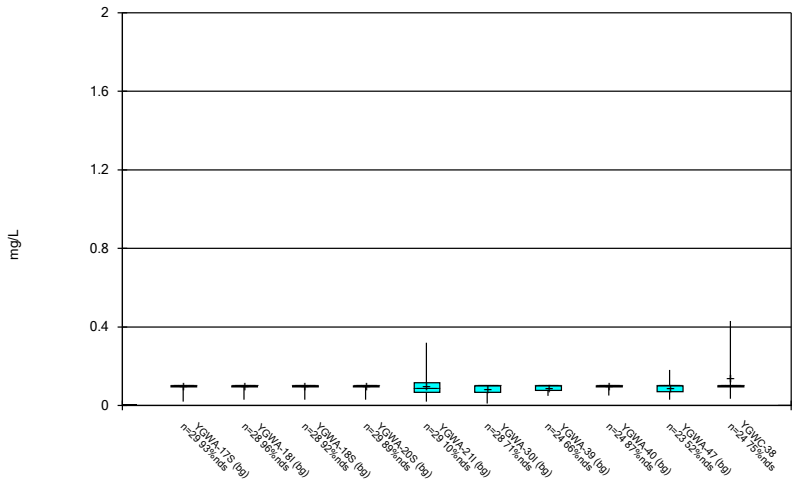


Constituent: Fluoride Analysis Run 7/7/2025 2:41 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

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Box & Whiskers Plot

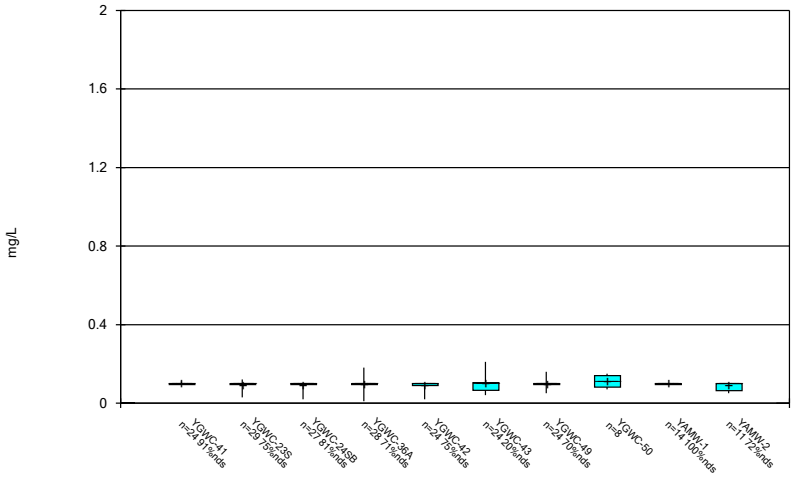


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Plant Yates Client: Southern Company Data: Yates AMA-R6

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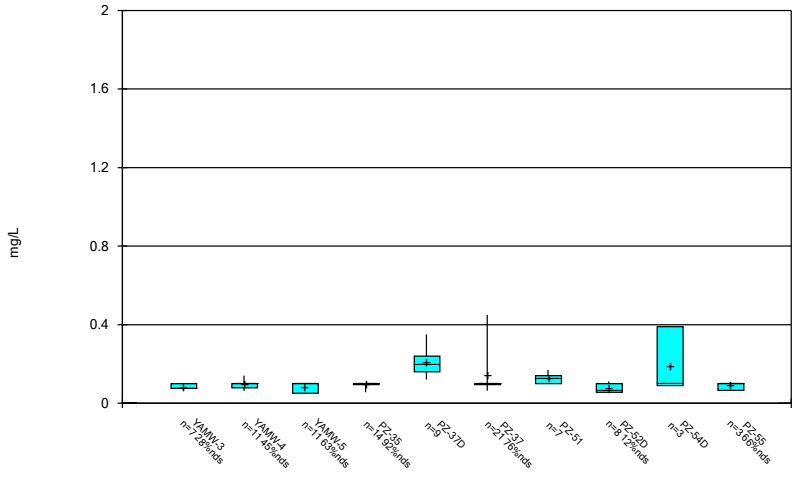


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Plant Yates Client: Southern Company Data: Yates AMA-R6

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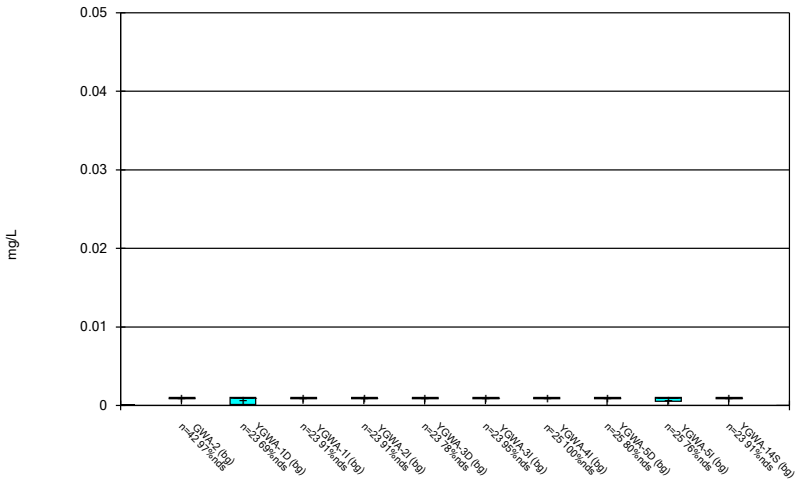


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Plant Yates Client: Southern Company Data: Yates AMA-R6

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Box & Whiskers Plot

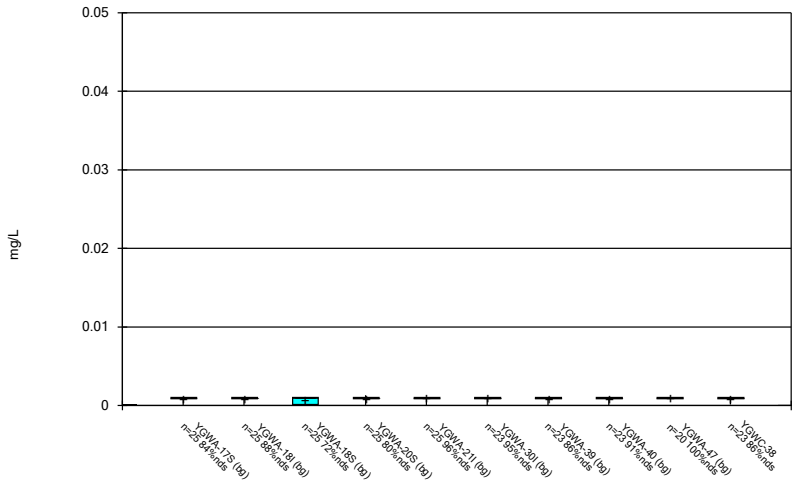


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Box & Whiskers Plot

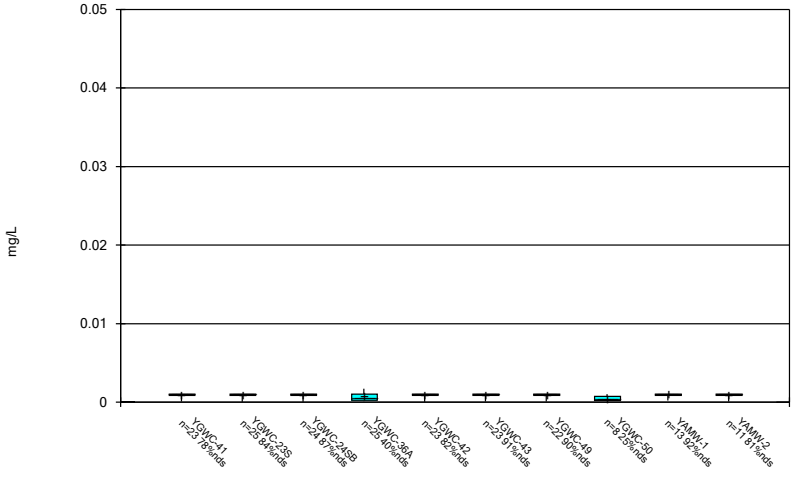


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Box & Whiskers Plot

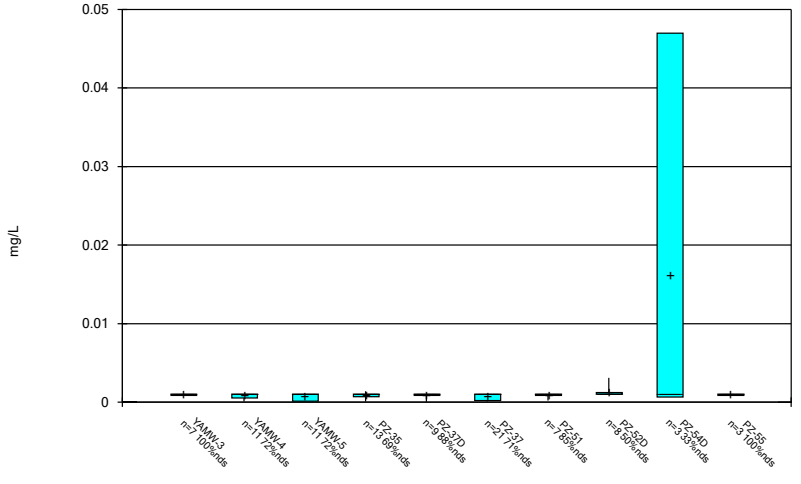


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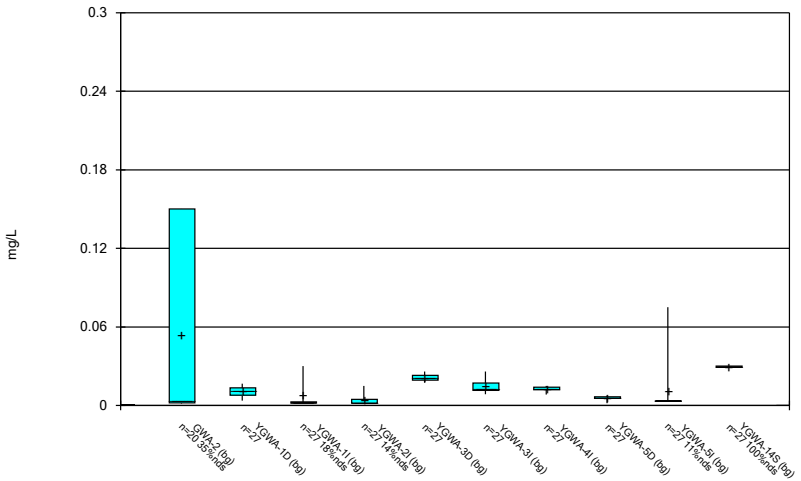


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Plant Yates Client: Southern Company Data: Yates AMA-R6

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Box & Whiskers Plot

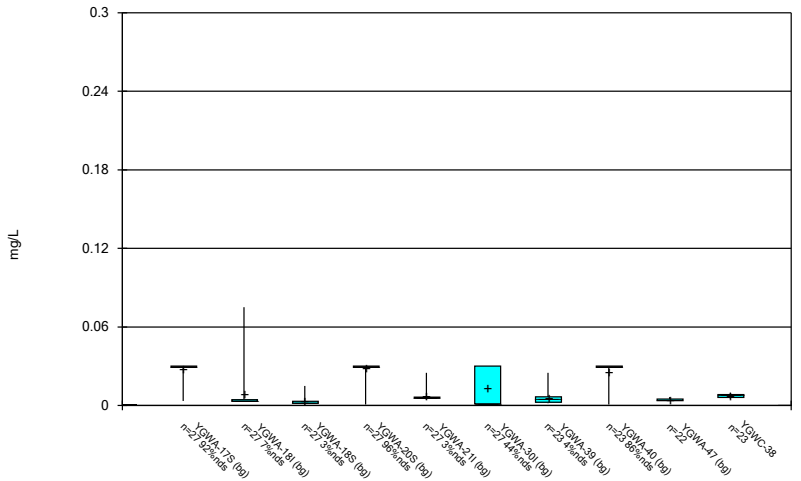


Constituent: Lithium Analysis Run 7/7/2025 2:41 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

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Box & Whiskers Plot

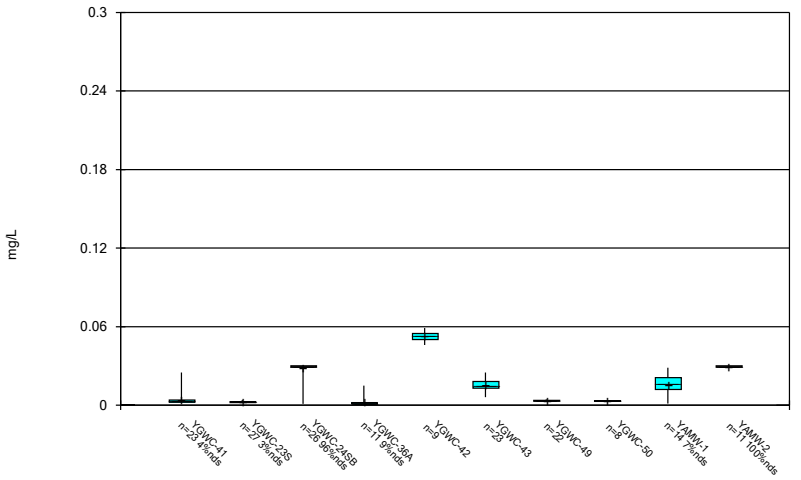


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Plant Yates Client: Southern Company Data: Yates AMA-R6

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Box & Whiskers Plot

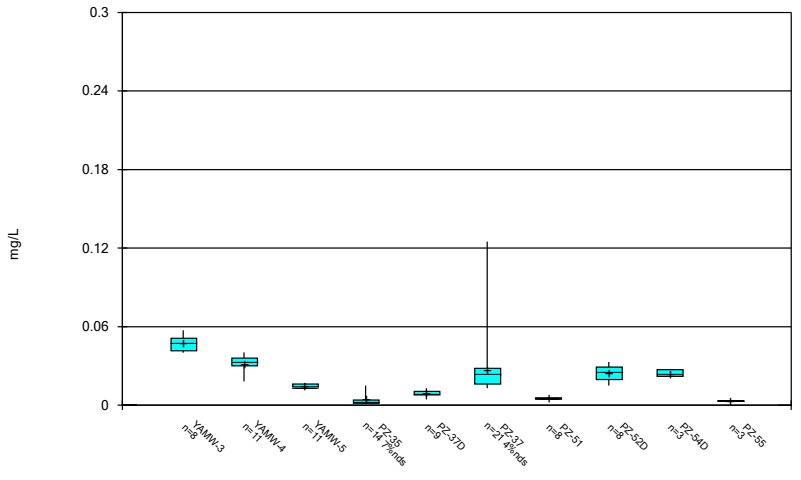


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Plant Yates Client: Southern Company Data: Yates AMA-R6

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Box & Whiskers Plot

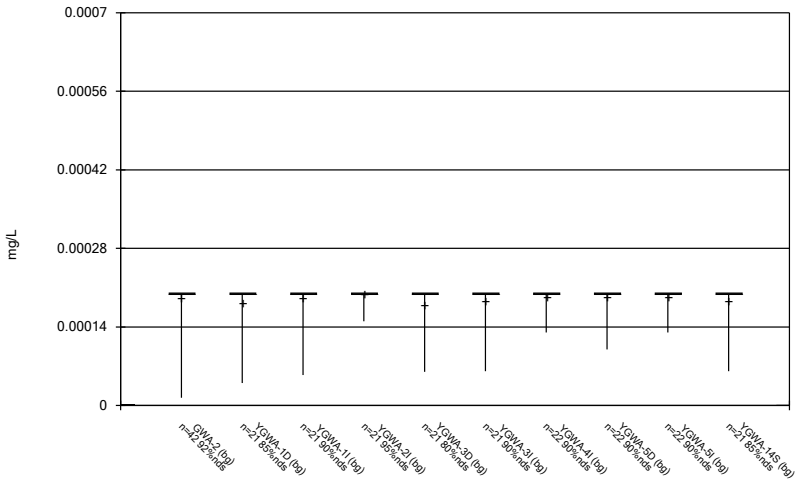


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Plant Yates Client: Southern Company Data: Yates AMA-R6

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Box & Whiskers Plot

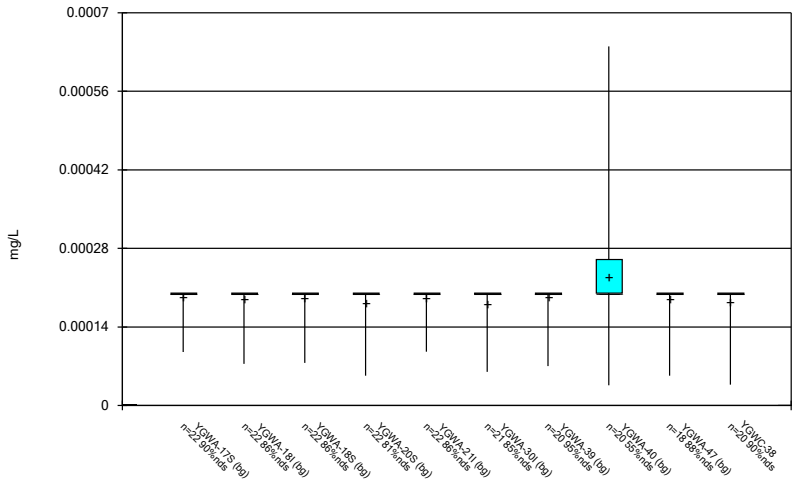


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Plant Yates Client: Southern Company Data: Yates AMA-R6

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Box & Whiskers Plot

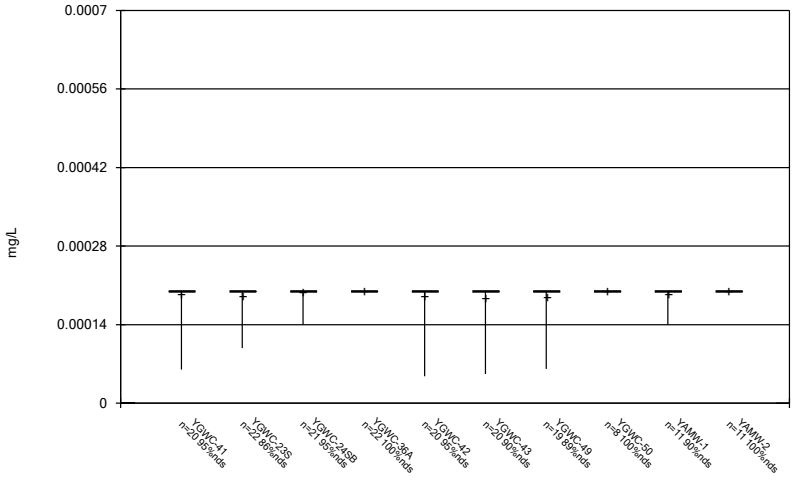


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Box & Whiskers Plot

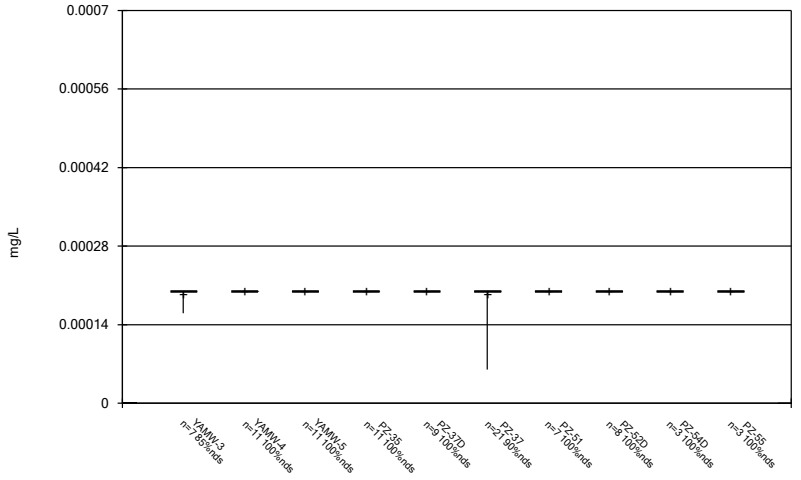


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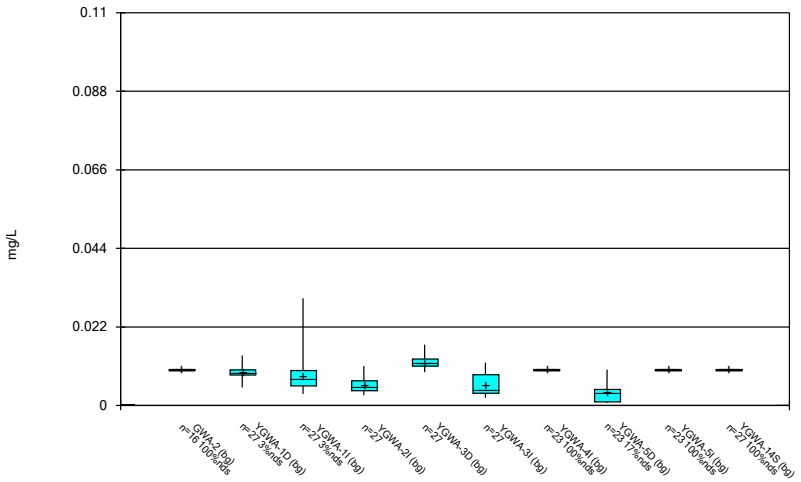


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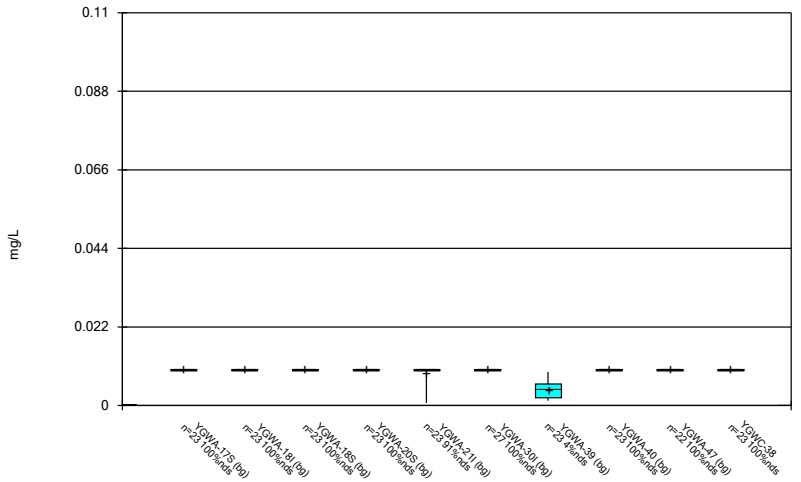


Constituent: Molybdenum Analysis Run 7/7/2025 2:42 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

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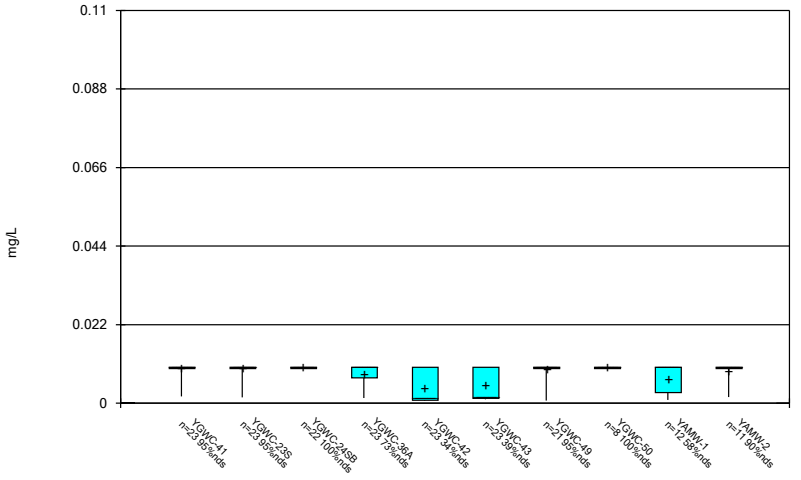


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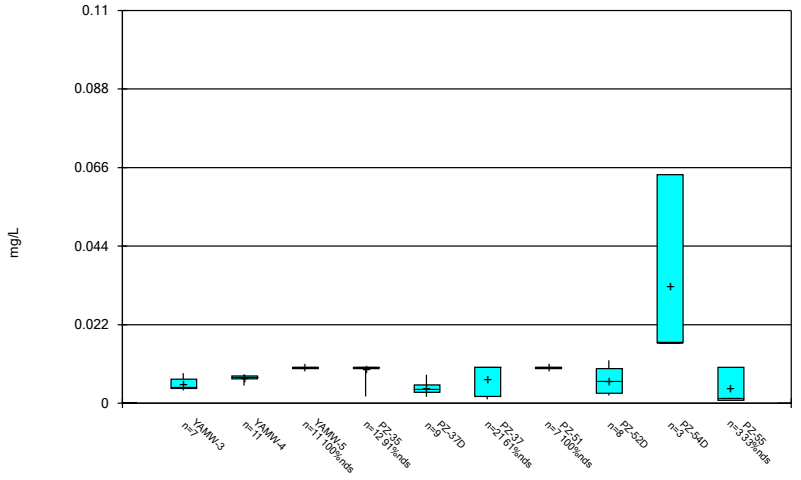


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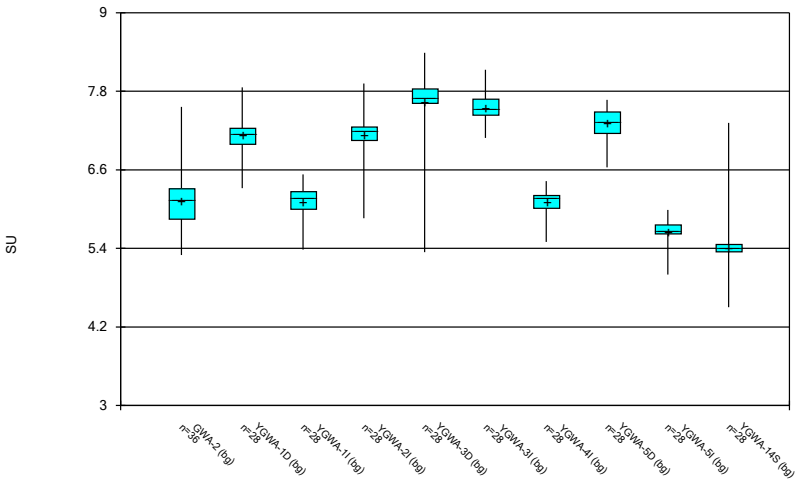


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Plant Yates Client: Southern Company Data: Yates AMA-R6

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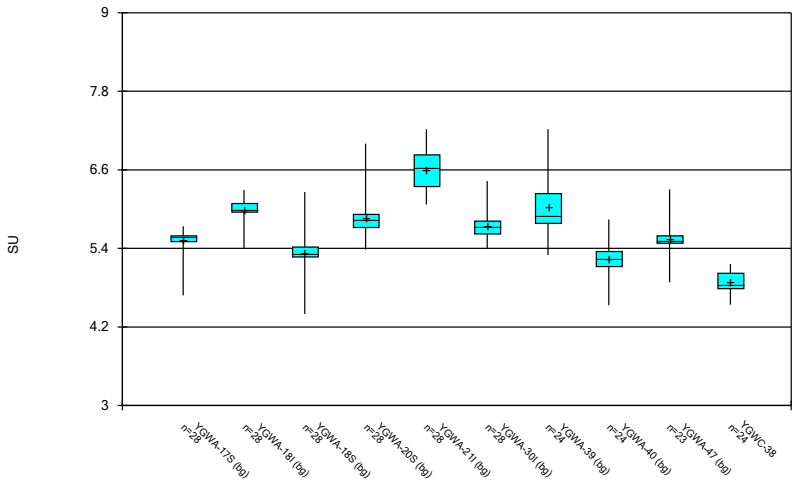


Constituent: pH, Field Analysis Run 7/7/2025 2:42 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

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Box & Whiskers Plot

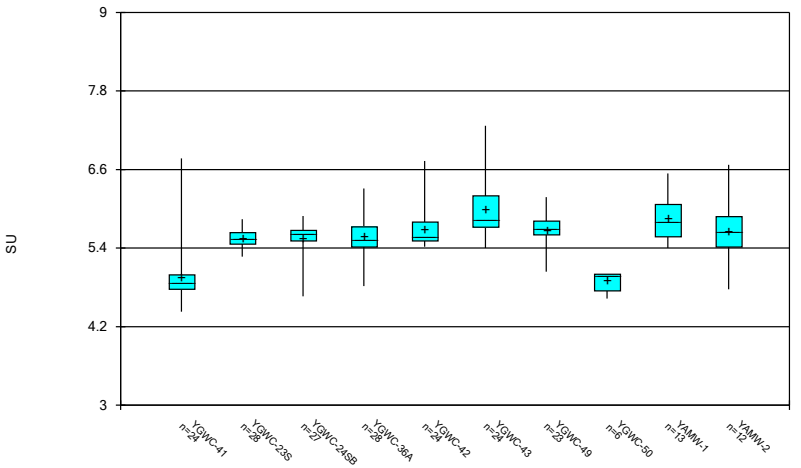


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Box & Whiskers Plot

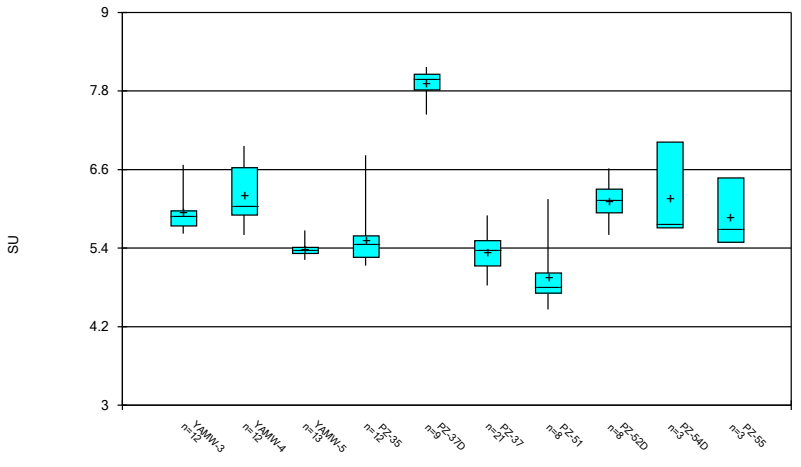


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Plant Yates Client: Southern Company Data: Yates AMA-R6

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Box & Whiskers Plot

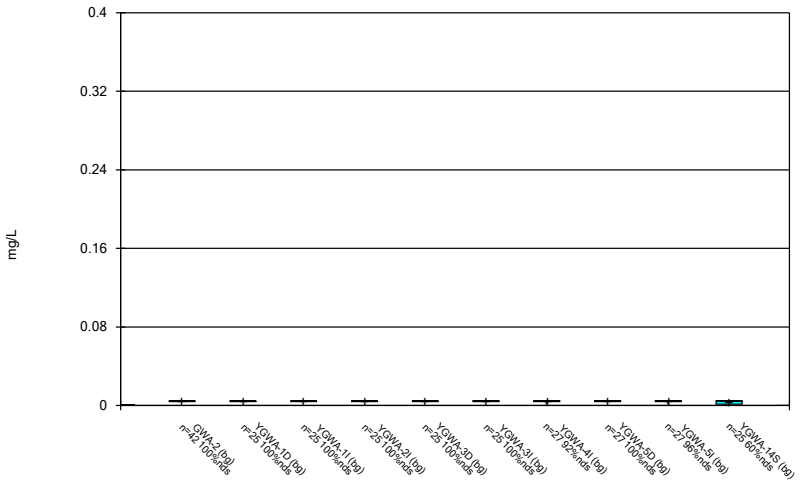


Constituent: pH, Field Analysis Run 7/7/2025 2:42 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

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Box & Whiskers Plot

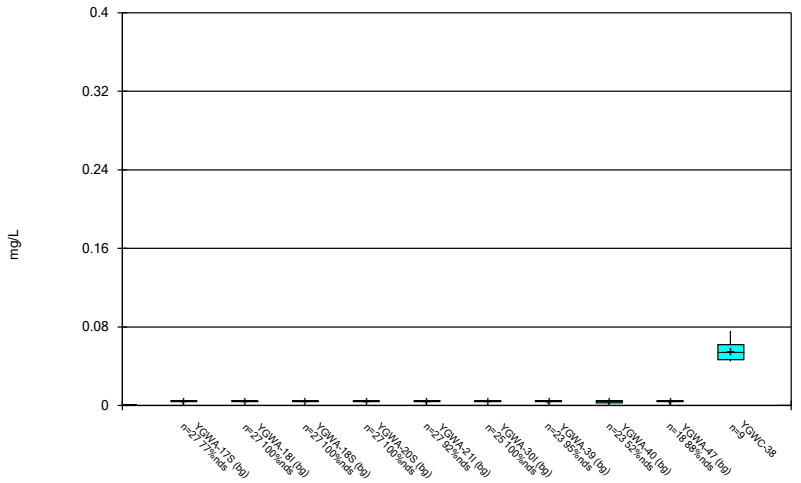


Constituent: Selenium Analysis Run 7/7/2025 2:42 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

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Box & Whiskers Plot

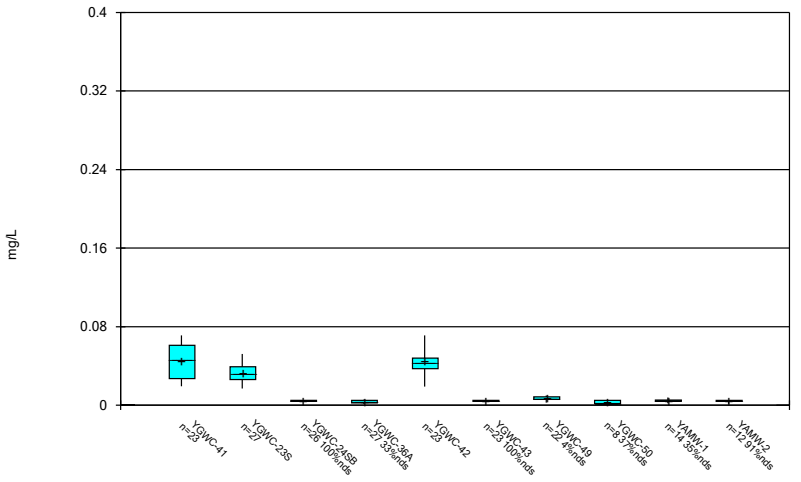


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Plant Yates Client: Southern Company Data: Yates AMA-R6

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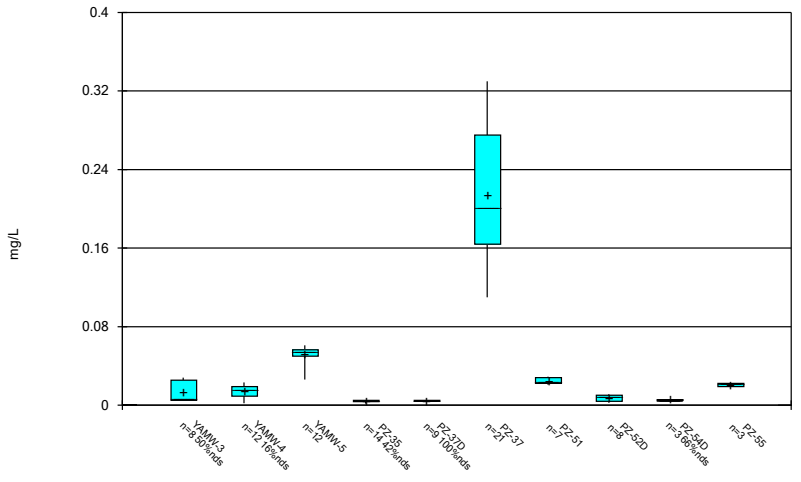


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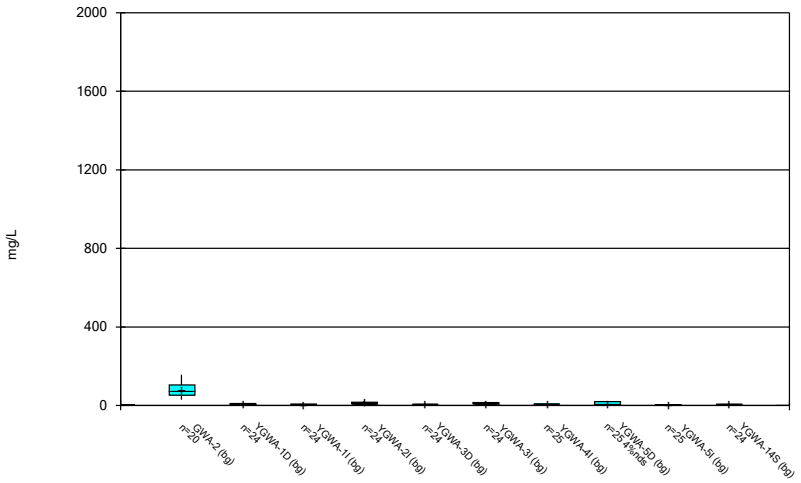


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Plant Yates Client: Southern Company Data: Yates AMA-R6

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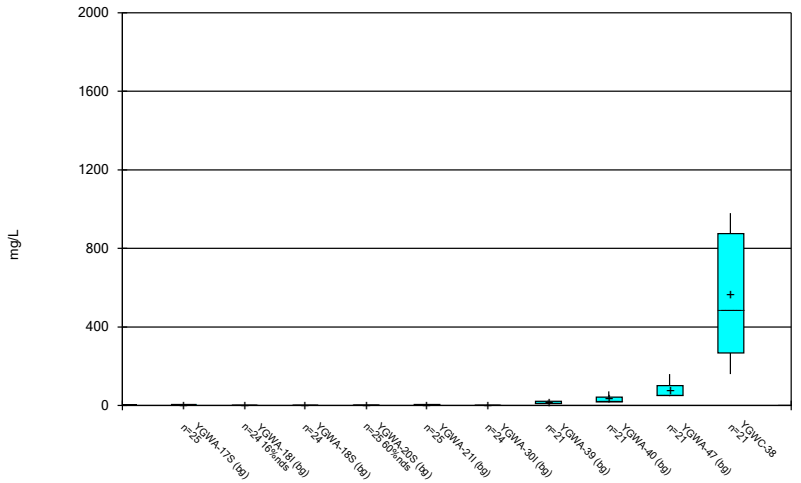


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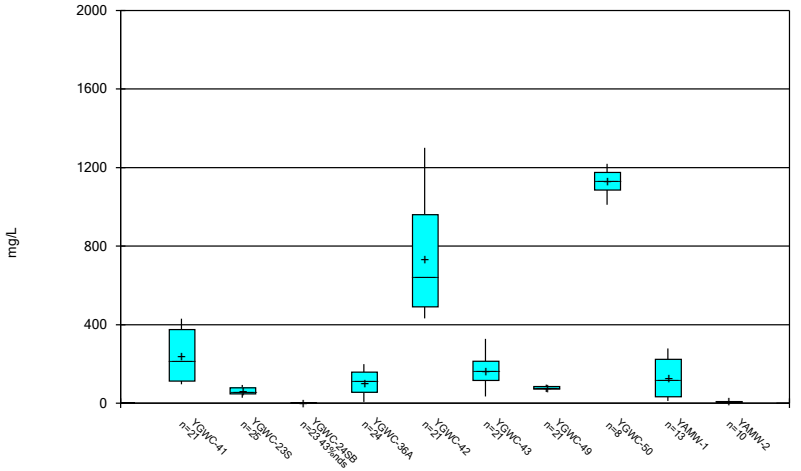


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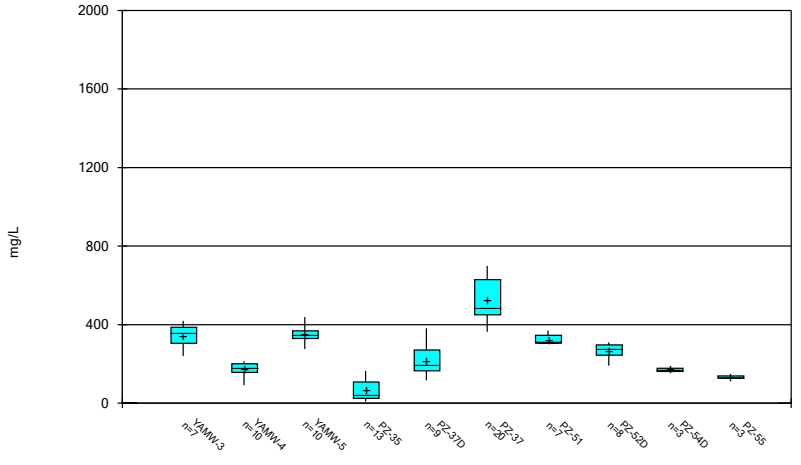


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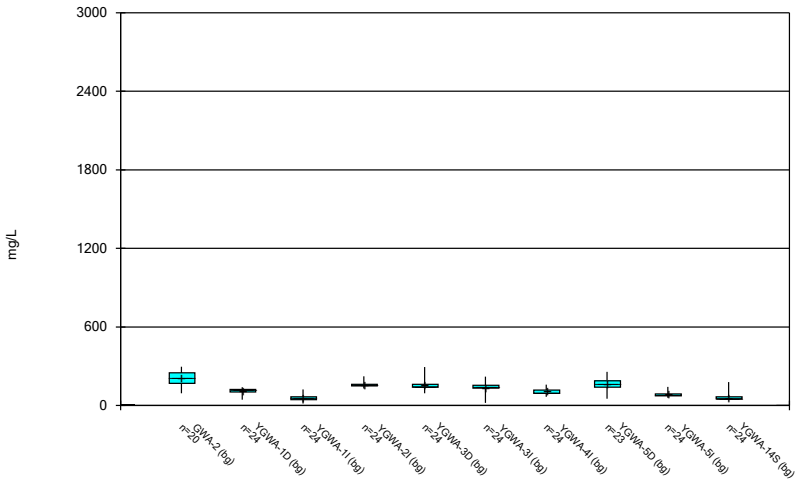


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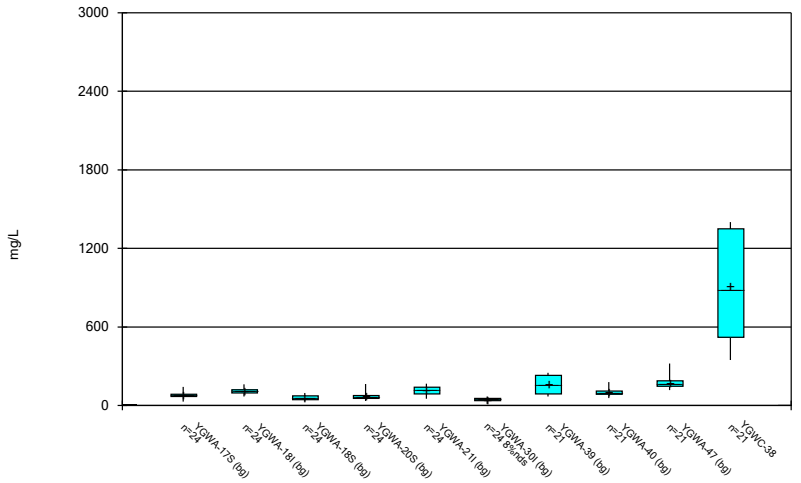


Constituent: TDS Analysis Run 7/7/2025 2:42 PM

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Box & Whiskers Plot

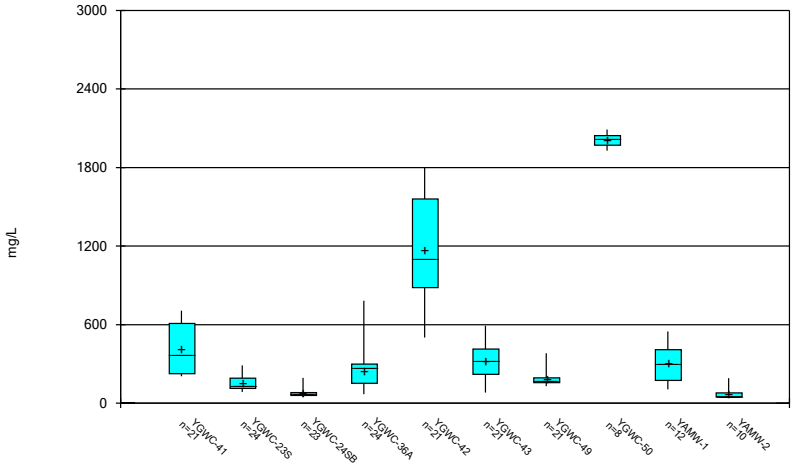


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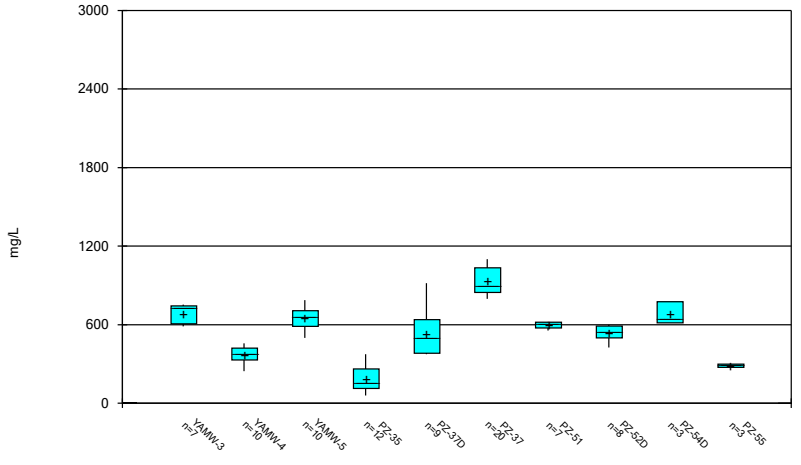


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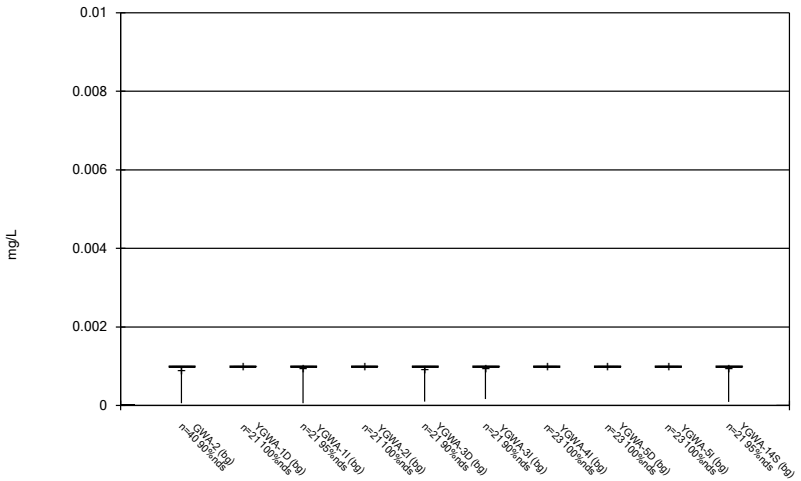


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Box & Whiskers Plot

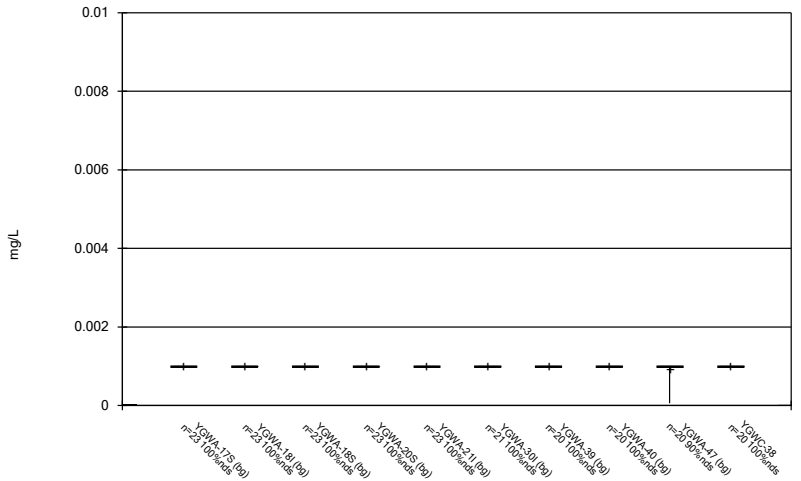


Constituent: Thallium Analysis Run 7/7/2025 2:42 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

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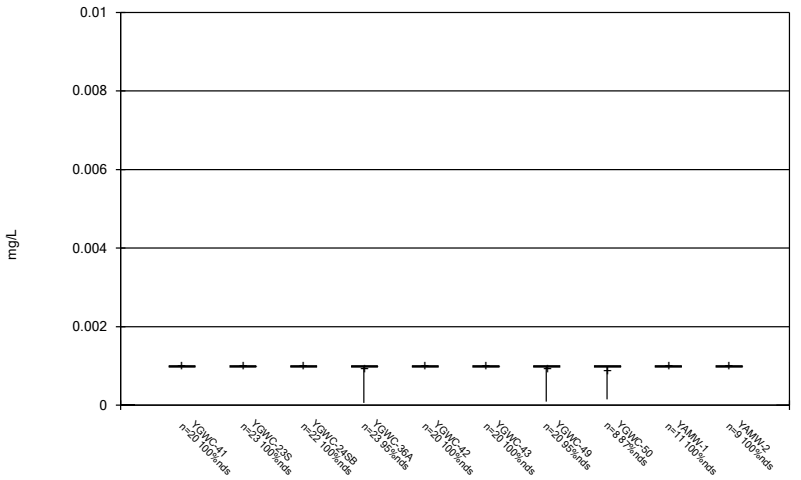


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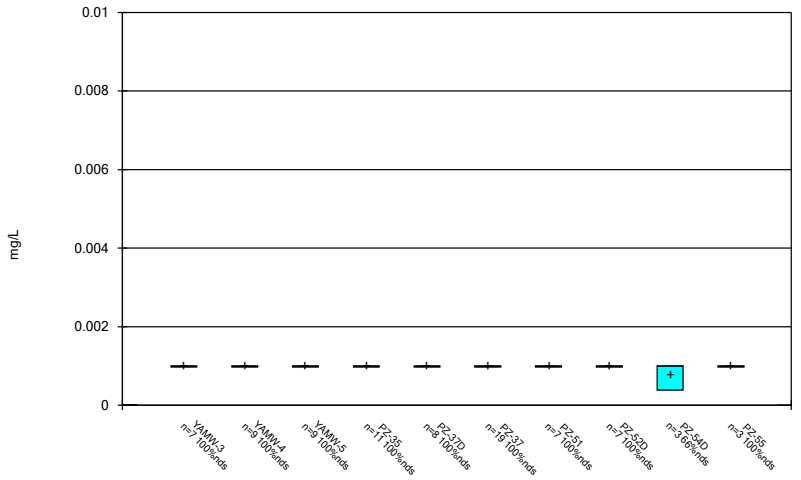


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Constituent: Thallium Analysis Run 7/7/2025 2:42 PM

Plant Yates Client: Southern Company Data: Yates AMA-R6

FIGURE C.

Outlier Summary

Plant Yates Client: Southern Company Data: Yates AMA-R6 Printed 5/20/2025, 9:39 PM

	GWA-2 Cobalt (mg/L)	YGWA-21I Cobalt (mg/L)	YAMW-3 Lithium (mg/L)	YGWA-5D TDS (mg/L)
8/26/2020	0.2 (O)			
9/22/2020	0.16 (O)			
3/2/2021	0.21 (O)			
8/20/2021	0.074 (O)			
11/17/2021			0.046 (OX)	
2/8/2022	0.072 (O)			
8/30/2022	0.075 (O)			
2/20/2024				639 (O)
2/25/2025		0.041 (o)		

FIGURE D.

Appendix III Interwell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Yates AMA-R6 Printed 7/7/2025, 2:47 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	YGWC-38	0.16	n/a	2/26/2025	3.1	Yes	443	n/a	n/a	51.92	n/a	n/a	0.00004916	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-41	0.16	n/a	2/26/2025	3.6	Yes	443	n/a	n/a	51.92	n/a	n/a	0.00004916	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-23S	0.16	n/a	2/27/2025	1.8	Yes	443	n/a	n/a	51.92	n/a	n/a	0.00004916	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-42	0.16	n/a	2/26/2025	12.9	Yes	443	n/a	n/a	51.92	n/a	n/a	0.00004916	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-43	0.16	n/a	2/27/2025	3.8	Yes	443	n/a	n/a	51.92	n/a	n/a	0.00004916	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-50	0.16	n/a	5/21/2025	21.1	Yes	443	n/a	n/a	51.92	n/a	n/a	0.00004916	NP Inter (NDs) 1 of 2
Calcium (mg/L)	YGWC-38	37	n/a	2/26/2025	39.2	Yes	449	n/a	n/a	0.6682	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-36A	37	n/a	2/26/2025	47.4	Yes	449	n/a	n/a	0.6682	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-42	37	n/a	2/26/2025	70.4	Yes	449	n/a	n/a	0.6682	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-50	37	n/a	5/21/2025	276	Yes	449	n/a	n/a	0.6682	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-36A	160	n/a	2/26/2025	199	Yes	449	n/a	n/a	4.454	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-42	160	n/a	2/26/2025	432	Yes	449	n/a	n/a	4.454	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-43	160	n/a	2/27/2025	187	Yes	449	n/a	n/a	4.454	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-50	160	n/a	5/21/2025	1220	Yes	449	n/a	n/a	4.454	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
TDS (mg/L)	YGWC-38	319	n/a	2/26/2025	347	Yes	442	n/a	n/a	0.4525	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
TDS (mg/L)	YGWC-36A	319	n/a	2/26/2025	421	Yes	442	n/a	n/a	0.4525	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
TDS (mg/L)	YGWC-42	319	n/a	2/26/2025	849	Yes	442	n/a	n/a	0.4525	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
TDS (mg/L)	YGWC-43	319	n/a	2/27/2025	415	Yes	442	n/a	n/a	0.4525	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
TDS (mg/L)	YGWC-50	319	n/a	5/21/2025	2090	Yes	442	n/a	n/a	0.4525	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Yates AMA-R6 Printed 7/7/2025, 2:47 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**YGWC-38**	**0.16**	**n/a**	**2/26/2025**	**3.1**	**Yes**	**443**	**n/a**	**n/a**	**51.92**	**n/a**	**n/a**	**0.00004916**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-41**	**0.16**	**n/a**	**2/26/2025**	**3.6**	**Yes**	**443**	**n/a**	**n/a**	**51.92**	**n/a**	**n/a**	**0.00004916**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-23S**	**0.16**	**n/a**	**2/27/2025**	**1.8**	**Yes**	**443**	**n/a**	**n/a**	**51.92**	**n/a**	**n/a**	**0.00004916**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	YGWC-24SB	0.16	n/a	3/17/2025	0.04ND	No	443	n/a	n/a	51.92	n/a	n/a	0.00004916	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-36A	0.16	n/a	2/26/2025	0.23J	No	443	n/a	n/a	51.92	n/a	n/a	0.00004916	NP Inter (NDs) 1 of 2
Boron (mg/L)	**YGWC-42**	**0.16**	**n/a**	**2/26/2025**	**12.9**	**Yes**	**443**	**n/a**	**n/a**	**51.92**	**n/a**	**n/a**	**0.00004916**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-43**	**0.16**	**n/a**	**2/27/2025**	**3.8**	**Yes**	**443**	**n/a**	**n/a**	**51.92**	**n/a**	**n/a**	**0.00004916**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	YGWC-49	0.16	n/a	2/26/2025	0.0087J	No	443	n/a	n/a	51.92	n/a	n/a	0.00004916	NP Inter (NDs) 1 of 2
Boron (mg/L)	**YGWC-50**	**0.16**	**n/a**	**5/21/2025**	**21.1**	**Yes**	**443**	**n/a**	**n/a**	**51.92**	**n/a**	**n/a**	**0.00004916**	**NP Inter (NDs) 1 of 2**
Calcium (mg/L)	**YGWC-38**	**37**	**n/a**	**2/26/2025**	**39.2**	**Yes**	**449**	**n/a**	**n/a**	**0.6682**	**n/a**	**n/a**	**0.00004916**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	YGWC-41	37	n/a	2/26/2025	14.2	No	449	n/a	n/a	0.6682	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-23S	37	n/a	2/27/2025	16.2	No	449	n/a	n/a	0.6682	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-24SB	37	n/a	3/17/2025	2.9	No	449	n/a	n/a	0.6682	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
Calcium (mg/L)	**YGWC-36A**	**37**	**n/a**	**2/26/2025**	**47.4**	**Yes**	**449**	**n/a**	**n/a**	**0.6682**	**n/a**	**n/a**	**0.00004916**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**YGWC-42**	**37**	**n/a**	**2/26/2025**	**70.4**	**Yes**	**449**	**n/a**	**n/a**	**0.6682**	**n/a**	**n/a**	**0.00004916**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	YGWC-43	37	n/a	2/27/2025	17.1	No	449	n/a	n/a	0.6682	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-49	37	n/a	2/26/2025	10.9	No	449	n/a	n/a	0.6682	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
Calcium (mg/L)	**YGWC-50**	**37**	**n/a**	**5/21/2025**	**276**	**Yes**	**449**	**n/a**	**n/a**	**0.6682**	**n/a**	**n/a**	**0.00004916**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	YGWC-38	12.7	n/a	2/26/2025	3.9	No	448	n/a	n/a	0	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-41	12.7	n/a	2/26/2025	3.6	No	448	n/a	n/a	0	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-23S	12.7	n/a	2/27/2025	2.8	No	448	n/a	n/a	0	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-24SB	12.7	n/a	3/17/2025	8.6	No	448	n/a	n/a	0	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-36A	12.7	n/a	2/26/2025	4.5	No	448	n/a	n/a	0	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-42	12.7	n/a	2/26/2025	2.9	No	448	n/a	n/a	0	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-43	12.7	n/a	2/27/2025	2.6	No	448	n/a	n/a	0	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-49	12.7	n/a	2/26/2025	3.7	No	448	n/a	n/a	0	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-50	12.7	n/a	5/21/2025	10.6	No	448	n/a	n/a	0	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
Fluoride (mg/L)	YGWC-38	1.1	n/a	2/26/2025	0.1ND	No	518	n/a	n/a	54.25	n/a	n/a	0.00004916	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-41	1.1	n/a	2/26/2025	0.1ND	No	518	n/a	n/a	54.25	n/a	n/a	0.00004916	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-23S	1.1	n/a	2/27/2025	0.1ND	No	518	n/a	n/a	54.25	n/a	n/a	0.00004916	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-24SB	1.1	n/a	3/17/2025	0.1ND	No	518	n/a	n/a	54.25	n/a	n/a	0.00004916	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-36A	1.1	n/a	2/26/2025	0.1ND	No	518	n/a	n/a	54.25	n/a	n/a	0.00004916	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-42	1.1	n/a	2/26/2025	0.1ND	No	518	n/a	n/a	54.25	n/a	n/a	0.00004916	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-43	1.1	n/a	2/27/2025	0.1ND	No	518	n/a	n/a	54.25	n/a	n/a	0.00004916	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-49	1.1	n/a	2/26/2025	0.1ND	No	518	n/a	n/a	54.25	n/a	n/a	0.00004916	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-50	1.1	n/a	5/21/2025	0.07J	No	518	n/a	n/a	54.25	n/a	n/a	0.00004916	NP Inter (NDs) 1 of 2
pH, Field (SU)	YGWC-38	8.39	4.4	2/26/2025	5.08	No	527	n/a	n/a	0	n/a	n/a	0.00009831	NP Inter (normality) 1 of 2
pH, Field (SU)	YGWC-41	8.39	4.4	2/26/2025	4.77	No	527	n/a	n/a	0	n/a	n/a	0.00009831	NP Inter (normality) 1 of 2
pH, Field (SU)	YGWC-23S	8.39	4.4	2/27/2025	5.5	No	527	n/a	n/a	0	n/a	n/a	0.00009831	NP Inter (normality) 1 of 2
pH, Field (SU)	YGWC-24SB	8.39	4.4	3/17/2025	5.65	No	527	n/a	n/a	0	n/a	n/a	0.00009831	NP Inter (normality) 1 of 2
pH, Field (SU)	YGWC-36A	8.39	4.4	2/26/2025	5.13	No	527	n/a	n/a	0	n/a	n/a	0.00009831	NP Inter (normality) 1 of 2
pH, Field (SU)	YGWC-42	8.39	4.4	2/26/2025	5.42	No	527	n/a	n/a	0	n/a	n/a	0.00009831	NP Inter (normality) 1 of 2
pH, Field (SU)	YGWC-43	8.39	4.4	2/27/2025	5.65	No	527	n/a	n/a	0	n/a	n/a	0.00009831	NP Inter (normality) 1 of 2
pH, Field (SU)	YGWC-49	8.39	4.4	2/26/2025	5.75	No	527	n/a	n/a	0	n/a	n/a	0.00009831	NP Inter (normality) 1 of 2
pH, Field (SU)	YGWC-50	8.39	4.4	2/26/2025	5	No	527	n/a	n/a	0	n/a	n/a	0.00009831	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-38	160	n/a	2/26/2025	159	No	449	n/a	n/a	4.454	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-41	160	n/a	2/26/2025	96.4	No	449	n/a	n/a	4.454	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-23S	160	n/a	2/27/2025	92.2	No	449	n/a	n/a	4.454	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-24SB	160	n/a	3/17/2025	0.5ND	No	449	n/a	n/a	4.454	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**YGWC-36A**	**160**	**n/a**	**2/26/2025**	**199**	**Yes**	**449**	**n/a**	**n/a**	**4.454**	**n/a**	**n/a**	**0.00004916**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**YGWC-42**	**160**	**n/a**	**2/26/2025**	**432**	**Yes**	**449**	**n/a**	**n/a**	**4.454**	**n/a**	**n/a**	**0.00004916**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**YGWC-43**	**160**	**n/a**	**2/27/2025**	**187**	**Yes**	**449**	**n/a**	**n/a**	**4.454**	**n/a**	**n/a**	**0.00004916**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	YGWC-49	160	n/a	2/26/2025	56.8	No	449	n/a	n/a	4.454	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**YGWC-50**	**160**	**n/a**	**5/21/2025**	**1220**	**Yes**	**449**	**n/a**	**n/a**	**4.454**	**n/a**	**n/a**	**0.00004916**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	**YGWC-38**	**319**	**n/a**	**2/26/2025**	**347**	**Yes**	**442**	**n/a**	**n/a**	**0.4525**	**n/a**	**n/a**	**0.00004916**	**NP Inter (normality) 1 of 2**

Appendix III Interwell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Yates AMA-R6 Printed 7/7/2025, 2:47 PM

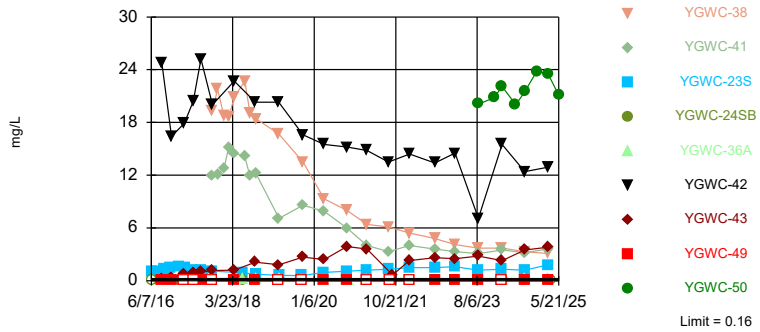
Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
TDS (mg/L)	YGWC-41	319	n/a	2/26/2025	215	No	442	n/a	n/a	0.4525	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
TDS (mg/L)	YGWC-23S	319	n/a	2/27/2025	218	No	442	n/a	n/a	0.4525	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
TDS (mg/L)	YGWC-24SB	319	n/a	3/17/2025	70	No	442	n/a	n/a	0.4525	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
TDS (mg/L)	**YGWC-36A**	**319**	**n/a**	**2/26/2025**	**421**	**Yes**	**442**	**n/a**	**n/a**	**0.4525**	**n/a**	**n/a**	**0.00004916**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	**YGWC-42**	**319**	**n/a**	**2/26/2025**	**849**	**Yes**	**442**	**n/a**	**n/a**	**0.4525**	**n/a**	**n/a**	**0.00004916**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	**YGWC-43**	**319**	**n/a**	**2/27/2025**	**415**	**Yes**	**442**	**n/a**	**n/a**	**0.4525**	**n/a**	**n/a**	**0.00004916**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	YGWC-49	319	n/a	2/26/2025	150	No	442	n/a	n/a	0.4525	n/a	n/a	0.00004916	NP Inter (normality) 1 of 2
TDS (mg/L)	**YGWC-50**	**319**	**n/a**	**5/21/2025**	**2090**	**Yes**	**442**	**n/a**	**n/a**	**0.4525**	**n/a**	**n/a**	**0.00004916**	**NP Inter (normality) 1 of 2**

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Hollow symbols indicate censored values.

Exceeds Limit: YGWC-38, YGWC-41, YGWC-23S, YGWC-42, YGWC-43, YGWC-50

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 443 background values. 51.92% NDs. Annual per-constituent alpha = 0.0008845. Individual comparison alpha = 0.00004916 (1 of 2). Comparing 9 points to limit.

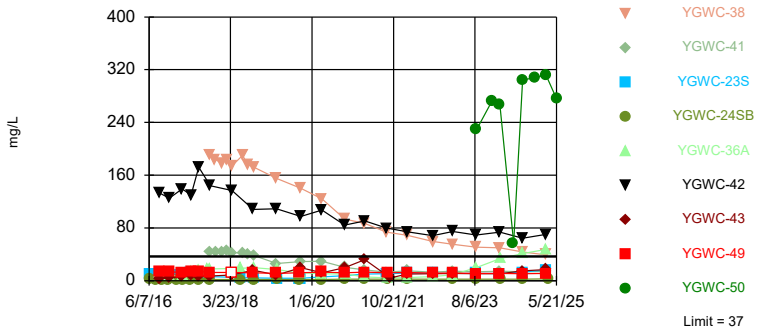
Constituent: Boron Analysis Run 7/7/2025 2:45 PM View: Appendix III Interwell
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

Exceeds Limit: YGWC-38, YGWC-36A, YGWC-42, YGWC-50

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 449 background values. 0.6682% NDs. Annual per-constituent alpha = 0.0008845. Individual comparison alpha = 0.00004916 (1 of 2). Comparing 9 points to limit.

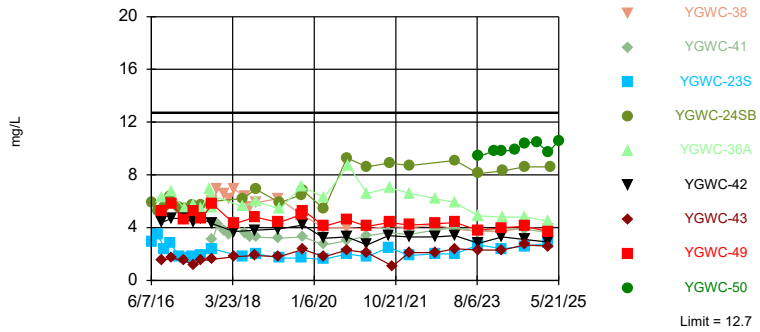
Constituent: Calcium Analysis Run 7/7/2025 2:45 PM View: Appendix III Interwell
Plant Yates Client: Southern Company Data: Yates AMA-R6

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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 448 background values. Annual per-constituent alpha = 0.0008845. Individual comparison alpha = 0.00004916 (1 of 2). Comparing 9 points to limit.

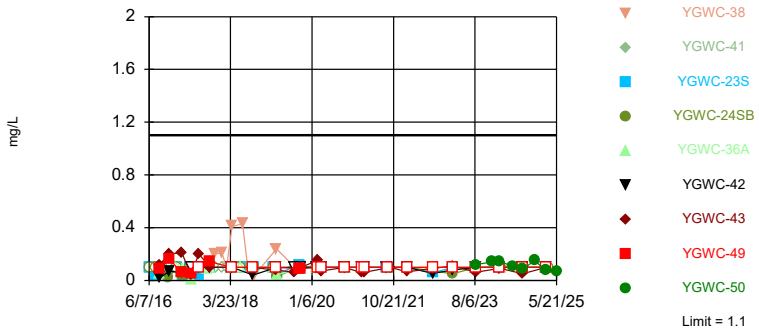
Constituent: Chloride Analysis Run 7/7/2025 2:45 PM View: Appendix III Interwell
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

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 518 background values. 54.25% NDs. Annual per-constituent alpha = 0.0008845. Individual comparison alpha = 0.00004916 (1 of 2). Comparing 9 points to limit.

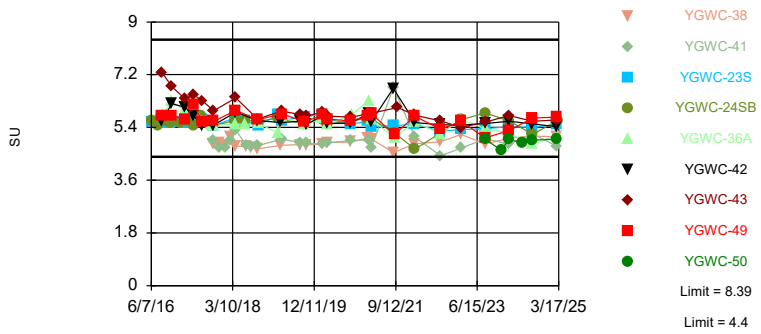
Constituent: Fluoride Analysis Run 7/7/2025 2:45 PM View: Appendix III Interwell
Plant Yates Client: Southern Company Data: Yates AMA-R6

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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 527 background values. Annual per-constituent alpha = 0.001769. Individual comparison alpha = 0.00009831 (1 of 2). Comparing 9 points to limit.

Constituent: pH, Field Analysis Run 7/7/2025 2:45 PM View: Appendix III Interwell
Plant Yates Client: Southern Company Data: Yates AMA-R6

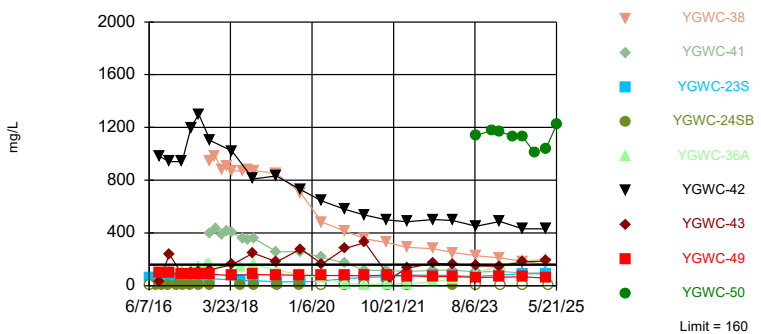
Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Exceeds Limit: YGWC-36A, YGWC-42, YGWC-43, YGWC-50

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 449 background values. 4.454% NDs. Annual per-constituent alpha = 0.0008845. Individual comparison alpha = 0.00004916 (1 of 2). Comparing 9 points to limit.

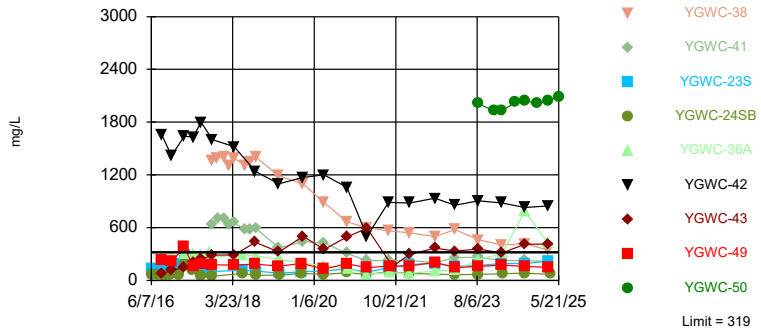
Constituent: Sulfate Analysis Run 7/7/2025 2:46 PM View: Appendix III Interwell
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Exceeds Limit: YGWC-38, YGWC-36A, YGWC-42, YGWC-43, YGWC-50

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 442 background values. 0.4525% NDs. Annual per-constituent alpha = 0.0008845. Individual comparison alpha = 0.00004916 (1 of 2). Comparing 9 points to limit.

Constituent: TDS Analysis Run 7/7/2025 2:46 PM View: Appendix III Interwell
Plant Yates Client: Southern Company Data: Yates AMA-R6

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-30I (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)	0.0047 (J)	0.0052 (J)	0.0097 (J)	<0.04	0.0177 (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			<0.04	0.0071 (J)		0.01 (J)		
9/15/2016						0.0102 (J)		0.0214 (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			0.0151 (J)	
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	0.0063 (J)								
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				<0.04	0.0061 (J)				

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-30I (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								0.0173 (J)	<0.04
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				<0.04				0.0173 (J)	
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				0.0045 (J)		0.004 (J)	<0.04		
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				0.005 (J)	0.01 (J)		0.0057 (J)		
9/27/2018									
10/1/2018	<0.04	0.0049 (J)	0.021 (J)			<0.04		0.015 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-30I (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				0.0055 (J)	0.0076 (J)		0.0044 (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		0.0054 (J)		0.018 (J)	<0.04
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)			0.0073 (J)			0.0052 (J)
3/24/2020					0.011 (J)		0.0068 (J)		
3/25/2020				0.011 (J)					
3/26/2020									
9/22/2020				<0.04	0.0079 (J)		0.0053 (J)		
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)		0.011 (J)	0.017 (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				<0.04	0.009 (J)		<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)		<0.04	0.02 (J)	
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		<0.04		0.015 (J)	<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									
8/15/2023		0.0094 (J)	<0.04	<0.04	<0.04	<0.04	<0.04	0.017 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-30I (bg)
8/16/2023	<0.04								<0.04
8/17/2023									
12/20/2023									
2/20/2024	<0.04	0.014 (J)	0.015 (J)	<0.04	<0.04	<0.04	<0.04		<0.04
2/21/2024									
2/22/2024									
2/23/2024								0.037 (J)	
6/10/2024									
8/20/2024	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.014 (J)	<0.04
8/21/2024									
8/22/2024									
8/23/2024									
11/26/2024									
2/25/2025	<0.04	<0.04	<0.04	<0.04	0.0078 (J)	<0.04	<0.04	0.018 (J)	<0.04
2/26/2025									
2/27/2025									
3/17/2025									
5/21/2025									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-23S	YGWA-20S (bg)	YGWC-24SB	YGWC-42	YGWA-47 (bg)
6/1/2016									
6/2/2016									
6/6/2016	<0.04	<0.04							
6/7/2016			0.036 (J)	<0.04	0.99	<0.04			
6/8/2016							<0.04		
7/25/2016									
7/26/2016									
7/27/2016	<0.04	0.0059 (J)	0.008 (J)			<0.04			
7/28/2016				0.0096 (J)	1.09				
8/1/2016							0.0054 (J)		
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		0.0111 (J)		
11/1/2016									
11/2/2016						<0.04			
11/3/2016	<0.04	0.0082 (J)	0.0077 (J)	<0.04					
11/4/2016									
11/8/2016					1.5		0.0121 (J)		
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	<0.04	0.0096 (J)	0.0092 (J)						
1/12/2017									
1/13/2017				<0.04		<0.04			
1/16/2017					1.67				
1/17/2017							0.0079 (J)		
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	0.0098 (J)							
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	<0.04	0.0091 (J)		<0.04		<0.04			
4/27/2017									
4/28/2017									
5/1/2017									

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-23S	YGWA-20S (bg)	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	<0.04	0.0079 (J)							
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	0.0046 (J)	0.007 (J)	0.0096 (J)	0.0054 (J)		<0.04			
9/26/2018							0.0055 (J)		
9/27/2018					0.71				
10/1/2018									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-23S	YGWA-20S (bg)	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	<0.04	0.0053 (J)				<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	0.0062 (J)	0.0072 (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	0.0054 (J)	0.01 (J)	0.0092 (J)	0.016 (J)		<0.04			
3/25/2020								15.5	
3/26/2020					0.94		0.033 (J)		
9/22/2020									0.0076 (J)
9/23/2020	0.021 (J)	0.006 (J)	0.0066 (J)				<0.04		
9/24/2020				0.013 (J)	1.1	0.0094 (J)		15.2	
9/25/2020									
10/7/2020									
3/1/2021									0.013 (J)
3/2/2021									
3/3/2021	<0.04	0.0094 (J)	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	<0.04	0.014 (J)	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		
8/15/2023	<0.04	<0.04	<0.04	0.046 (J)		<0.04			<0.04

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-23S	YGWA-20S (bg)	YGWC-24SB	YGWC-42	YGWA-47 (bg)
8/16/2023					1.2		<0.04	7.1	
8/17/2023									
12/20/2023									
2/20/2024	<0.04		<0.04	<0.04		<0.04			0.023 (J)
2/21/2024					1.3				
2/22/2024								15.5	
2/23/2024		0.018 (J)					0.016 (J)		
6/10/2024									
8/20/2024	<0.04		<0.04	<0.04		<0.04			<0.04
8/21/2024		<0.04			1.2				
8/22/2024							<0.04	12.4	
8/23/2024									
11/26/2024									
2/25/2025	<0.04	<0.04	0.0093 (J)	0.0066 (J)		<0.04			0.014 (J)
2/26/2025								12.9	
2/27/2025					1.8				
3/17/2025							<0.04		
5/21/2025									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-41	YGWC-38
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									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-41	YGWC-38
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					0.0401	12	19.3
10/16/2017	<0.04								
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	<0.04						0.15	15.2	
2/20/2018						<0.04			18.6
4/2/2018									
4/3/2018						0.033 (J)	0.12	14.5	20.9
4/4/2018		1.2	0.0041 (J)						
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	0.16		22.7
8/6/2018	<0.04								
8/7/2018						0.024 (J)	0.12	11.9	19.1
9/19/2018									
9/20/2018		2.1	0.0042 (J)						
9/24/2018						0.028 (J)	0.099	12.2	18.4
9/25/2018									
9/26/2018				0.24					
9/27/2018									
10/1/2018					<0.04				

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-41	YGWC-38
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)	0.079	8.6	13.5
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)	0.078	4	6.4
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	0.074	4	
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					0.057	3.3	4.1
2/9/2023			0.014 (J)	0.028 (J)					
2/10/2023									
8/15/2023	<0.04				<0.04	0.15 (J)	0.052 (J)		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-41	YGWC-38
8/16/2023		2.8	0.012 (J)	0.058				3.1	3.7
8/17/2023									
12/20/2023									
2/20/2024	0.017 (J)				<0.04	0.12	0.056		
2/21/2024			<0.04						
2/22/2024		2.3						3.5	3.7
2/23/2024				0.11					
6/10/2024									
8/20/2024					<0.04				
8/21/2024						0.13	0.061		
8/22/2024		3.5	0.035 (J)	0.16					
8/23/2024								3.2	3.3
11/26/2024									
2/25/2025					<0.04	0.13	0.061		
2/26/2025			0.0087 (J)	0.23 (J)				3.6	3.1
2/27/2025		3.8							
3/17/2025									
5/21/2025									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-50
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	
9/1/2016	
9/2/2016	
9/13/2016	
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	
11/8/2016	
11/14/2016	
11/15/2016	
11/16/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	
1/12/2017	
1/13/2017	
1/16/2017	
1/17/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
2/28/2017	
3/1/2017	
3/2/2017	
3/3/2017	
3/6/2017	
3/7/2017	
3/8/2017	
3/9/2017	
4/26/2017	
4/27/2017	
4/28/2017	
5/1/2017	

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-50
5/2/2017	
5/8/2017	
5/9/2017	
5/10/2017	
5/26/2017	
6/27/2017	
6/28/2017	
6/29/2017	
6/30/2017	
7/7/2017	
7/10/2017	
7/11/2017	
7/13/2017	
7/17/2017	
9/22/2017	
9/29/2017	
10/3/2017	
10/4/2017	
10/5/2017	
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	
6/6/2018	
6/7/2018	
6/8/2018	
6/11/2018	
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	
9/27/2018	
10/1/2018	

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-50
10/2/2018	
2/25/2019	
3/26/2019	
3/27/2019	
3/28/2019	
3/29/2019	
4/1/2019	
4/2/2019	
4/3/2019	
4/4/2019	
6/12/2019	
9/24/2019	
9/25/2019	
9/26/2019	
9/27/2019	
10/8/2019	
10/9/2019	
3/17/2020	
3/18/2020	
3/19/2020	
3/24/2020	
3/25/2020	
3/26/2020	
9/22/2020	
9/23/2020	
9/24/2020	
9/25/2020	
10/7/2020	
3/1/2021	
3/2/2021	
3/3/2021	
3/4/2021	
8/19/2021	
8/20/2021	
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	
9/3/2021	
9/27/2021	
2/8/2022	
2/9/2022	
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	
2/7/2023	
2/8/2023	
2/9/2023	
2/10/2023	
8/15/2023	

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-50
8/16/2023	
8/17/2023	20.1
12/20/2023	20.8
2/20/2024	
2/21/2024	
2/22/2024	22.1
2/23/2024	
6/10/2024	20
8/20/2024	
8/21/2024	
8/22/2024	
8/23/2024	21.5
11/26/2024	23.8
2/25/2025	
2/26/2025	23.5
2/27/2025	
3/17/2025	
5/21/2025	21.1

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-30I (bg)
6/1/2016	21	2.5	12						
6/2/2016				8.8	33	28	2.4	1.3	1.3
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016	20.3	2.16							1.17
7/26/2016			11	7.69	32.3	24.5	2.12	1.24	
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			8.49	31		2.18		
9/15/2016						27		1.17	
9/16/2016									
9/19/2016									1.05
9/20/2016									
11/1/2016	18.4		11			25.6			1.14
11/2/2016				7.83	30.9			1.23	
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					30.4		1.14	1.03
4/27/2017		2.38	11.1						
4/28/2017									
5/1/2017				13.4	37				

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-30I (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								1.24	1.13
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					29.7			1.09
10/5/2017				9.29				1.11	
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				8.2		29.1	2.3		
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				9.5 (J)	25.8		2.3		
9/27/2018									
10/1/2018	19.7	1.8	15.1			26.9		0.99	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-30I (bg)
10/2/2018									1.1
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019		2.2	13.3 (J)						
3/29/2019								1.1	
4/1/2019	20.4 (J)					30.1			1.3
4/2/2019									
4/3/2019				8.4	24.7 (J)		2.8		
4/4/2019									
6/12/2019									
9/24/2019		2.3	15.8		25.8		2.5		
9/25/2019	22.4			9.5		29.5		1.1	1.1
9/26/2019									
9/27/2019									
10/8/2019									
10/9/2019									
10/10/2019				9.9	24.2		2.4		
3/17/2020									
3/18/2020		2.1						1.1	
3/19/2020	21.9		15			31.5			1.2
3/24/2020					26.1		2.5		
3/25/2020				10.5					
3/26/2020									
9/22/2020				9.6	27.2		2.6		
9/23/2020	23.6	1.8	14.1			28.6			
9/24/2020									1.1
9/25/2020								1.3	
10/7/2020									
3/1/2021									1.2
3/2/2021					1.6		2.6	1.2	
3/3/2021	20.6	1.8	14.1	7.7		29.8			
3/4/2021									
8/19/2021		2	14.2			28.1		1.2	1.2
8/20/2021									
8/25/2021									
8/26/2021				7.6	25.2		2.5		
8/27/2021	24.7								
9/1/2021									
9/3/2021									
9/27/2021									
2/8/2022									
2/9/2022	23.7	2.1	14.9			30.3			
2/10/2022					24.8		2.5	1.3	
2/11/2022				7.5					1.5
8/30/2022			14.9		24.8		2.5		
8/31/2022	23.5	1.9		8.9		28.7		1.3	1.3
9/1/2022									
2/7/2023		2.2	15		26.6				
2/8/2023	23.3					28.9		1.5	1.3
2/9/2023				9.6			2.8		
2/10/2023									

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-30I (bg)
8/15/2023		1.8	13.5	7.8	25	27.4	2.6	1.3	
8/16/2023	24.9								1.4
8/17/2023									
12/20/2023									
2/20/2024	23.7	2.2	15.3	9.9	27.2	30.7	2.7		1.3
2/21/2024									
2/22/2024									
2/23/2024								1.6	
6/10/2024									
8/20/2024	23.4	1.9	17.7	9.1	29.1	30	3.2	1.3	1.4
8/21/2024									
8/22/2024									
8/23/2024									
11/26/2024									
2/25/2025	21.2	1.8	16.4	8.1	25.9	27.9	2.8	1.3	1.4
2/26/2025									
2/27/2025									
3/17/2025									
5/21/2025									

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-23S	YGWA-20S (bg)	YGWC-24SB	YGWC-42	YGWA-47 (bg)
6/1/2016									
6/2/2016									
6/6/2016	6.2	1.4							
6/7/2016			2.2	3.7	9.6	2.3			
6/8/2016							1.9		
7/25/2016									
7/26/2016									
7/27/2016	4.73	1.19	2			2.08			
7/28/2016				3.15	7.87				
8/1/2016							1.83		
8/30/2016								133	20.9
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016		1.5	1.97						
9/19/2016	4.76			3.17		1.97			
9/20/2016					9.28		1.78		
11/1/2016									
11/2/2016						2.13			
11/3/2016	5.25	1.31	1.99	3.4					
11/4/2016									
11/8/2016					8.6		1.77		
11/14/2016									18.6
11/15/2016									
11/16/2016								125	
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	4.74	1.25	2.28						
1/12/2017									
1/13/2017				4.98		2.45			
1/16/2017					8.85				
1/17/2017							1.7		
2/21/2017									
2/22/2017									
2/24/2017									16.1
2/27/2017								139	
2/28/2017									
3/1/2017	5.37	1.26							
3/2/2017			2.15						
3/3/2017									
3/6/2017				6.28		2.48			
3/7/2017									
3/8/2017							1.77		
3/9/2017					8.4				
4/26/2017	4.28	1.05		6.65		2.3			
4/27/2017									
4/28/2017									
5/1/2017									

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-23S	YGWA-20S (bg)	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	4.95	1.06							
6/29/2017			2.02	6.04		2.54			
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	4.6	1	2.1	10.4 (J)		2.3			
9/26/2018							1.7		
9/27/2018					4.1				
10/1/2018									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-23S	YGWA-20S (bg)	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	5.3	1.2				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	5.075 (D)	1.085 (D)					1.7		
9/27/2019					3.7				
10/8/2019									9.7
10/9/2019								97.5 (D)	
10/10/2019			2.4	5.6	3.6	2.6			
3/17/2020									14.8
3/18/2020									
3/19/2020									
3/24/2020	5.3	1	2.7	6		2.6			
3/25/2020								107	
3/26/2020					5.6		1.7		
9/22/2020									10.1
9/23/2020	5.2	0.91 (J)	2.6				2.4		
9/24/2020				7.8	7.9	2.6		84.3	
9/25/2020									
10/7/2020									
3/1/2021									10.3
3/2/2021									
3/3/2021	5.2	0.96 (J)	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	5.1	0.87 (J)	2.8	9.8		2.3			
2/10/2022					11.8		2.2	74.4	
2/11/2022									
8/30/2022	5.7	0.77 (J)	3	7.3					
8/31/2022						2.4			9.6
9/1/2022					11.2			68.5	
2/7/2023	5.5	0.79 (J)	2.9	7.5		2.4			
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 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-23S	YGWA-20S (bg)	YGWC-24SB	YGWC-42	YGWA-47 (bg)
8/15/2023	5.1	0.8 (J)	2.9	6.1		2.2			9.6
8/16/2023					11.2		2.2	69.2	
8/17/2023									
12/20/2023									
2/20/2024	5.6		3.2	7		2.5			10.3
2/21/2024					11.1				
2/22/2024								73.5	
2/23/2024		0.84 (J)					2.6		
6/10/2024									
8/20/2024	5.9		3.5	6.9		2.8			10
8/21/2024		0.96 (J)			13				
8/22/2024							2.3	64.4	
8/23/2024									
11/26/2024									
2/25/2025	5.3	0.88 (J)	3	6		2.6			9.9
2/26/2025								70.4	
2/27/2025					16.2				
3/17/2025							2.9		
5/21/2025									

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWA-40 (bg)	YGWC-41
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	9.31	3.4							
9/1/2016			13.9						
9/2/2016				11.2					
9/13/2016									
9/14/2016					23.5				
9/15/2016									
9/16/2016									
9/19/2016									
9/20/2016									
11/1/2016									
11/2/2016									
11/3/2016									
11/4/2016					23.7				
11/8/2016									
11/14/2016				7.79					
11/15/2016			13.5						
11/16/2016		3.79							
11/28/2016	9.47								
12/15/2016					23.1				
1/10/2017									
1/11/2017									
1/12/2017									
1/13/2017									
1/16/2017					23.3				
1/17/2017									
2/21/2017									
2/22/2017	10.4								
2/24/2017		6.42							
2/27/2017			12.5						
2/28/2017				8.37					
3/1/2017									
3/2/2017									
3/3/2017					25.1				
3/6/2017									
3/7/2017									
3/8/2017									
3/9/2017									
4/26/2017									
4/27/2017									
4/28/2017					30.7				
5/1/2017									

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWA-40 (bg)	YGWC-41
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					190	2.9	44.5
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							<25	45.3
2/20/2018						1.7	184		
4/2/2018									
4/3/2018						1.4	174	6.3	42.7
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	176	6.3	40.7
9/19/2018									
9/20/2018		15.9 (J)	12 (J)						
9/24/2018						1.1	172	5.7	38.5
9/25/2018									
9/26/2018				19.8 (J)					
9/27/2018									
10/1/2018					25				

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWA-40 (bg)	YGWC-41
10/2/2018									
2/25/2019	12.7 (J)								
3/26/2019								5.6	
3/27/2019						1.5	155		
3/28/2019		8.9	11.3 (J)						26
3/29/2019					23.5 (J)				
4/1/2019									
4/2/2019									
4/3/2019									
4/4/2019				16.9 (J)					
6/12/2019	18.9								
9/24/2019					26.4				
9/25/2019									
9/26/2019			12.1	11.7					
9/27/2019									
10/8/2019	28.3								
10/9/2019		20.05 (D)				2.4 (D)	140 (D)	5.05 (D)	29.25 (D)
10/10/2019				12.2					
3/17/2020	24.3								
3/18/2020									
3/19/2020					27.4				
3/24/2020								4.8	
3/25/2020		12.1	13.2	10.6		2.7	124		29.6
3/26/2020									
9/22/2020	31								
9/23/2020					26.3				
9/24/2020			12			3.7		4.4	
9/25/2020		19.8					93.7		20.5
10/7/2020				9.9					
3/1/2021									
3/2/2021	34.2								
3/3/2021					25.6				
3/4/2021		32.2	13	5.6		8.2	87	4.6	16.4
8/19/2021									
8/20/2021	26.5								
8/25/2021									
8/26/2021						14.1	73.6		12.8
8/27/2021					22.6				
9/1/2021			12.1						
9/3/2021				4.1				5.6	
9/27/2021		4.1							
2/8/2022	25.6	9.9	12.7			15.2		6	15
2/9/2022					23.4				
2/10/2022							68.9		
2/11/2022				4.6					
8/30/2022	23.5				25.4				
8/31/2022			11.6			16.3		6.2	
9/1/2022		10.7		6.3			59.4		12.9
2/7/2023	22.3				25.6	16.1			
2/8/2023		11					55.3	5.9	14.4
2/9/2023			11.8	9.2					
2/10/2023									

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWA-40 (bg)	YGWC-41
8/15/2023	20.3				23.2	17.2		5.3	
8/16/2023		10.7	11.1	20			50.9		13.5
8/17/2023									
12/20/2023									
2/20/2024	22.8				28.2	16.9		5.6	
2/21/2024			11.1						
2/22/2024		10.5					49.7		14.4
2/23/2024				33.6					
6/10/2024									
8/20/2024					30.4				
8/21/2024						19.7		6	
8/22/2024		14.8	10.8	41.1					
8/23/2024							43.8		13.6
11/26/2024									
2/25/2025					27.3	17.3		4.8	
2/26/2025			10.9	47.4			39.2		14.2
2/27/2025		17.1							
3/17/2025									
5/21/2025									

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-50
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	
9/1/2016	
9/2/2016	
9/13/2016	
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	
11/8/2016	
11/14/2016	
11/15/2016	
11/16/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	
1/12/2017	
1/13/2017	
1/16/2017	
1/17/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
2/28/2017	
3/1/2017	
3/2/2017	
3/3/2017	
3/6/2017	
3/7/2017	
3/8/2017	
3/9/2017	
4/26/2017	
4/27/2017	
4/28/2017	
5/1/2017	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-50
5/2/2017	
5/8/2017	
5/9/2017	
5/10/2017	
5/26/2017	
6/27/2017	
6/28/2017	
6/29/2017	
6/30/2017	
7/7/2017	
7/10/2017	
7/11/2017	
7/13/2017	
7/17/2017	
9/22/2017	
9/29/2017	
10/3/2017	
10/4/2017	
10/5/2017	
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	
6/6/2018	
6/7/2018	
6/8/2018	
6/11/2018	
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	
9/27/2018	
10/1/2018	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-50
10/2/2018	
2/25/2019	
3/26/2019	
3/27/2019	
3/28/2019	
3/29/2019	
4/1/2019	
4/2/2019	
4/3/2019	
4/4/2019	
6/12/2019	
9/24/2019	
9/25/2019	
9/26/2019	
9/27/2019	
10/8/2019	
10/9/2019	
10/10/2019	
3/17/2020	
3/18/2020	
3/19/2020	
3/24/2020	
3/25/2020	
3/26/2020	
9/22/2020	
9/23/2020	
9/24/2020	
9/25/2020	
10/7/2020	
3/1/2021	
3/2/2021	
3/3/2021	
3/4/2021	
8/19/2021	
8/20/2021	
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	
9/3/2021	
9/27/2021	
2/8/2022	
2/9/2022	
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	
2/7/2023	
2/8/2023	
2/9/2023	
2/10/2023	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-50
8/15/2023	
8/16/2023	
8/17/2023	229
12/20/2023	272
2/20/2024	
2/21/2024	
2/22/2024	267
2/23/2024	
6/10/2024	57.5
8/20/2024	
8/21/2024	
8/22/2024	
8/23/2024	304
11/26/2024	308
2/25/2025	
2/26/2025	312
2/27/2025	
3/17/2025	
5/21/2025	276

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-30I (bg)
6/1/2016	1.3	1.6	1.3						
6/2/2016				3.7	7.2	1.4	4.3	4.1	1.9
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016	1.3	1.4							1.7
7/26/2016			1.2	3.6	6.6	1.6	4.4	4	
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			3.4	6.6		3.8		
9/15/2016						1.5		4.2	
9/16/2016									
9/19/2016									1.6
9/20/2016									
11/1/2016	1.4		1.3			1.7			1.8
11/2/2016				4.5	7.6			4.9	
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					1.2		4.1	1.7
4/27/2017		1.3	1						
4/28/2017									
5/1/2017				4.3	7.2				

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-30I (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								3.7	1.8
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					1.5			1.8
10/5/2017				4.7				3.8	
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				4.4		1.2	4.5		
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	4.8		5.1		
9/27/2018									
10/1/2018	1.2	1.4	1.1			1.5		3.8	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-30I (bg)
10/2/2018									1.8
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019		1.5	1.4						
3/29/2019								4.2	
4/1/2019	1.1					1.2			1.7
4/2/2019									
4/3/2019				4.3	4		4.2		
4/4/2019									
6/12/2019									
9/24/2019		1.3	1.1		3.7		4.5		
9/25/2019	1.1			4.5		1.1		4.8	1.6
9/26/2019									
9/27/2019									
10/8/2019									
10/9/2019									
10/10/2019					4.3		1.6		
3/17/2020									
3/18/2020		1.4						5.2	
3/19/2020	1.1		1.1			1.2			1.8
3/24/2020					3.5		4.3		
3/25/2020				3.9					
3/26/2020									
9/22/2020				4.5	3.6		4.2		
9/23/2020	1	1.2	0.99 (J)			1.1			
9/24/2020									1.5
9/25/2020								5.3	
10/7/2020									
3/1/2021									1.6
3/2/2021					3.2		4.3	4.9	
3/3/2021	0.99 (J)	1.2	0.96 (J)	4.1 (J)		1.1			
3/4/2021									
8/19/2021		1.3	1.1			1.1		5	1.6
8/20/2021									
8/25/2021									
8/26/2021				4.4	3.4		4.3		
8/27/2021	1.1								
9/1/2021									
9/3/2021									
9/27/2021									
2/8/2022									
2/9/2022	1.1	1.3	1			1.1			
2/10/2022					3.2		4.4	4.7	
2/11/2022				4.1					2.1
8/30/2022			1.3		3.5		4.4		
8/31/2022	1.3	1.5		4.4		1.3		4.6	1.8
9/1/2022									
2/7/2023		1.5	1.3		3.3				
2/8/2023	1.1					1.2		4.9	1.6
2/9/2023				4.5			5		
2/10/2023									

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-30I (bg)
8/15/2023		1.4	1.1	4.4	3.1	1.1	4.1	4.1	
8/16/2023	1.1								1.5
8/17/2023									
12/20/2023									
2/20/2024	1.1	1.2	1	4.6	3.2	1.1	4.8		1.4
2/21/2024									
2/22/2024									
2/23/2024								4.8	
6/10/2024									
8/20/2024	1	1.3	1	5.2	3.4	1.1	4.8	4.5	1.4
8/21/2024									
8/22/2024									
8/23/2024									
11/26/2024									
2/25/2025	0.9 (J)	1.1	0.9 (J)	4.5	2.8	0.94 (J)	4.4	4.1	1.3
2/26/2025									
2/27/2025									
3/17/2025									
5/21/2025									

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-23S	YGWA-20S (bg)	YGWC-24SB	YGWC-42	YGWA-47 (bg)
6/1/2016									
6/2/2016									
6/6/2016	6.8	6.4							
6/7/2016			4.5	2.8	2.9	1.9			
6/8/2016							5.9		
7/25/2016									
7/26/2016									
7/27/2016	6.7	6.2	4.5			1.9			
7/28/2016				2.6	3.5				
8/1/2016							5.3		
8/30/2016								4.4	5.2
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016		6.1	4.5						
9/19/2016	7			2.4		1.9			
9/20/2016					2.4		5.5		
11/1/2016									
11/2/2016						2.6			
11/3/2016	7.5	7.4	5.4	2.9					
11/4/2016									
11/8/2016					2.8		6.4		
11/14/2016									6.4
11/15/2016									
11/16/2016								4.7	
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	6.5	6.1	4.7						
1/12/2017									
1/13/2017				2.5		2.3			
1/16/2017					1.8				
1/17/2017							5.5		
2/21/2017									
2/22/2017									
2/24/2017									5.5
2/27/2017								4.7	
2/28/2017									
3/1/2017	6.9	6							
3/2/2017			4.8						
3/3/2017									
3/6/2017				2.1		1.9			
3/7/2017									
3/8/2017							5.4		
3/9/2017					1.7				
4/26/2017	7	6.5		2.1		2			
4/27/2017									
4/28/2017									
5/1/2017									

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-23S	YGWA-20S (bg)	YGWC-24SB	YGWC-42	YGWA-47 (bg)
5/2/2017			4.6		1.8		5.7		
5/8/2017									5.8
5/9/2017									
5/10/2017								4.4	
5/26/2017									
6/27/2017									
6/28/2017	7	6.4							
6/29/2017			4.5	2.8		2.6			
6/30/2017									
7/7/2017							5.7		
7/10/2017					1.9				
7/11/2017								4.7	5.8
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017				2.2					
10/4/2017		6.8	4.7			2.6			
10/5/2017	7						6		
10/6/2017									
10/10/2017									5.9
10/11/2017					2.4				
10/12/2017								4.3	
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									4.8
4/3/2018									
4/4/2018								3.7	
6/5/2018				1.7					
6/6/2018						2.7			
6/7/2018	6.8								
6/8/2018									
6/11/2018		6.8	4.9						
6/12/2018					1.8		6.2		
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									4
9/20/2018								3.8	
9/24/2018									
9/25/2018	7.9	7.8	5.6	2.2		3.6			
9/26/2018							6.9		
9/27/2018					2				
10/1/2018									

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-23S	YGWA-20S (bg)	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	6.9	6.3				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	7.1					6.5		
9/27/2019					1.7				
10/8/2019									4.4
10/9/2019								4.2 (D)	
10/10/2019			5.8	3.3		3.7	6.8		
3/17/2020									4.1
3/18/2020									
3/19/2020									
3/24/2020	7	6.8	5	2.8		2.7			
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	2	2.7		3.3	
9/25/2020									
10/7/2020									
3/1/2021									3.7
3/2/2021									
3/3/2021	7	7.2	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	7.5	7	10.9	1.7		2.8			
2/10/2022					1.9		8.7	3.3	
2/11/2022									
8/30/2022	7.9	7	12	2.4					
8/31/2022						2.9			3.5
9/1/2022					2			3.3	
2/7/2023	7.4	6.4	11.4	2.4		2.9			
2/8/2023					2			3.4	3.5
2/9/2023									
2/10/2023							9.1		

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-23S	YGWA-20S (bg)	YGWC-24SB	YGWC-42	YGWA-47 (bg)
8/15/2023	7.3	6.7	11.6	2.3		2.8			3.5
8/16/2023					2.7		8.1	2.8	
8/17/2023									
12/20/2023									
2/20/2024	7.6		12.2	2.3		2.9			3.2
2/21/2024					2.4				
2/22/2024								3.3	
2/23/2024		6.6					8.3		
6/10/2024									
8/20/2024	7.8		12.7	2.3		3			3.6
8/21/2024		7.4			2.6				
8/22/2024							8.6	3.1	
8/23/2024									
11/26/2024									
2/25/2025	7	6.5	11.4	2		2.6			3
2/26/2025								2.9	
2/27/2025					2.8				
3/17/2025							8.6		
5/21/2025									

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWC-43	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	4	1.5							
9/1/2016			5.3						
9/2/2016				6.3					
9/13/2016									
9/14/2016					1.1				
9/15/2016									
9/16/2016									
9/19/2016									
9/20/2016									
11/1/2016									
11/2/2016									
11/3/2016									
11/4/2016					1.4				
11/8/2016									
11/14/2016				6.7					
11/15/2016			5.8						
11/16/2016		1.7							
11/28/2016	4.2								
12/15/2016					2.9				
1/10/2017									
1/11/2017									
1/12/2017									
1/13/2017									
1/16/2017					0.98				
1/17/2017									
2/21/2017									
2/22/2017	3.7								
2/24/2017		1.5							
2/27/2017			4.6						
2/28/2017				5.4					
3/1/2017									
3/2/2017									
3/3/2017					1.1				
3/6/2017									
3/7/2017									
3/8/2017									
3/9/2017									
4/26/2017									
4/27/2017									
4/28/2017					0.91				
5/1/2017									

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWC-41	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					6	3.1	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	6.9	4.4	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	5.5	3.3	4.3
9/19/2018									
9/20/2018		1.9	4.8						
9/24/2018						1.3	5.9	3.3	4.9
9/25/2018									
9/26/2018				6					
9/27/2018									
10/1/2018					1.1				

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWC-41	YGWA-40 (bg)
10/2/2018									
2/25/2019	4.1								
3/26/2019									4.4
3/27/2019						1.4	6.2		
3/28/2019		1.8	4.4					3.2	
3/29/2019					1.2				
4/1/2019									
4/2/2019									
4/3/2019									
4/4/2019				5.4					
6/12/2019	4.7								
9/24/2019					0.95 (J)				
9/25/2019									
9/26/2019			5	7.1					
9/27/2019									
10/8/2019	5.1								
10/9/2019		2.35 (D)				2.05 (D)	4.9 (D)	3.3	5.05 (D)
10/10/2019			5.3						
3/17/2020	4.8								
3/18/2020									
3/19/2020					0.97 (J)				
3/24/2020									4.7
3/25/2020		1.8	4.1	6.3		1.9	4	2.7	
3/26/2020									
9/22/2020	4.2								
9/23/2020					0.88 (J)				
9/24/2020			4.6			2.7			5
9/25/2020		2.3					4	3	
10/7/2020				8.7					
3/1/2021									
3/2/2021	4.1								
3/3/2021					0.86 (J)				
3/4/2021		2.1	4.1	6.6		4.9	3.9	3.4	4.9
8/19/2021									
8/20/2021	5.2								
8/25/2021									
8/26/2021						7.2	4.1	3.6	
8/27/2021					0.99 (J)				
9/1/2021			4.4						
9/3/2021				7					5.5
9/27/2021		1.1							
2/8/2022	5.7	2.1	4.2			7.4		3.5	6.2
2/9/2022					1 (J)				
2/10/2022							4		
2/11/2022				6.6					
8/30/2022	6.3				1.2				
8/31/2022			4.3			6.7			6.3
9/1/2022		2.1		6.2			4.2	3.8	
2/7/2023	6.1				1.1	5.6			
2/8/2023		2.4					3.9	4	6.9
2/9/2023			4.4	5.9					
2/10/2023									

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWC-41	YGWA-40 (bg)
8/15/2023	5.6				0.93 (J)	4.5			5.6
8/16/2023		2.3	3.8	4.9			3.7	3.7	
8/17/2023									
12/20/2023									
2/20/2024	6.1				0.96 (J)	4.6			5.7
2/21/2024			4						
2/22/2024		2.3					3.7	3.9	
2/23/2024				4.8					
6/10/2024									
8/20/2024					0.91 (J)				
8/21/2024						4			5.4
8/22/2024		2.7	4.1	4.8					
8/23/2024							4	3.9	
11/26/2024									
2/25/2025					0.77 (J)	3.5			4.5
2/26/2025			3.7	4.5			3.9	3.6	
2/27/2025		2.6							
3/17/2025									
5/21/2025									

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-50
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	
9/1/2016	
9/2/2016	
9/13/2016	
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	
11/8/2016	
11/14/2016	
11/15/2016	
11/16/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	
1/12/2017	
1/13/2017	
1/16/2017	
1/17/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
2/28/2017	
3/1/2017	
3/2/2017	
3/3/2017	
3/6/2017	
3/7/2017	
3/8/2017	
3/9/2017	
4/26/2017	
4/27/2017	
4/28/2017	
5/1/2017	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-50
5/2/2017	
5/8/2017	
5/9/2017	
5/10/2017	
5/26/2017	
6/27/2017	
6/28/2017	
6/29/2017	
6/30/2017	
7/7/2017	
7/10/2017	
7/11/2017	
7/13/2017	
7/17/2017	
9/22/2017	
9/29/2017	
10/3/2017	
10/4/2017	
10/5/2017	
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	
6/6/2018	
6/7/2018	
6/8/2018	
6/11/2018	
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	
9/27/2018	
10/1/2018	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-50
10/2/2018	
2/25/2019	
3/26/2019	
3/27/2019	
3/28/2019	
3/29/2019	
4/1/2019	
4/2/2019	
4/3/2019	
4/4/2019	
6/12/2019	
9/24/2019	
9/25/2019	
9/26/2019	
9/27/2019	
10/8/2019	
10/9/2019	
10/10/2019	
3/17/2020	
3/18/2020	
3/19/2020	
3/24/2020	
3/25/2020	
3/26/2020	
9/22/2020	
9/23/2020	
9/24/2020	
9/25/2020	
10/7/2020	
3/1/2021	
3/2/2021	
3/3/2021	
3/4/2021	
8/19/2021	
8/20/2021	
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	
9/3/2021	
9/27/2021	
2/8/2022	
2/9/2022	
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	
2/7/2023	
2/8/2023	
2/9/2023	
2/10/2023	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-50
8/15/2023	
8/16/2023	
8/17/2023	9.4
12/20/2023	9.8
2/20/2024	
2/21/2024	
2/22/2024	9.8
2/23/2024	
6/10/2024	9.9
8/20/2024	
8/21/2024	
8/22/2024	
8/23/2024	10.4
11/26/2024	10.5
2/25/2025	
2/26/2025	9.7
2/27/2025	
3/17/2025	
5/21/2025	10.6

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-3D (bg)
6/1/2016	0.12 (J)	0.15 (J)	<0.1						
6/2/2016				0.11 (J)	<0.1	<0.1	<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)			0.05 (J)	0.02 (J)		<0.1	<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	0.11 (J)		<0.1						
9/14/2016		0.18 (J)		0.04 (J)			<0.1	<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 (J)	0.15 (J)				0.07 (J)			0.68
11/2/2016				0.2 (J)	0.04 (J)			0.07 (J)	
11/3/2016									
11/4/2016			0.07 (J)				<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	0.05 (J)	0.09 (J)							0.49
1/12/2017				0.04 (J)			<0.1		
1/13/2017								<0.1	
1/16/2017			0.03 (J)			<0.1			
1/17/2017									
2/21/2017						0.05 (J)			
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017		0.2 (J)							
3/2/2017	0.09 (J)		0.06 (J)						0.48
3/3/2017									
3/6/2017								0.05 (J)	
3/7/2017				0.09 (J)			0.03 (J)		
3/8/2017					0.04 (J)				
3/9/2017									
4/26/2017		0.08 (J)			<0.1	<0.1			0.48
4/27/2017	0.04 (J)		0.01 (J)						
4/28/2017									
5/1/2017				0.04 (J)				<0.1	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-3D (bg)
5/2/2017							<0.1		
5/8/2017									
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017	0.06 (J)		0.06 (J)	0.09 (J)			<0.1		
6/28/2017		0.12 (J)							0.47
6/29/2017								0.02 (J)	
6/30/2017					<0.1	0.01 (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	0.07 (J)		<0.1	0.05 (J)			<0.1		
10/4/2017		0.1 (J)				<0.1			0.47
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 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-4I (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	0.052 (J)	0.13 (J)	<0.1						0.53
3/4/2019				0.19 (J)			<0.1	<0.1	
3/5/2019									
3/6/2019									
3/26/2019									
3/27/2019									
3/28/2019	0.036 (J)		<0.1						
3/29/2019					<0.1				
4/1/2019		0.1 (J)				<0.1			0.45
4/2/2019									
4/3/2019				0.047 (J)			<0.1	<0.1	
4/4/2019									
6/12/2019									
8/19/2019									
8/20/2019									
8/21/2019									
8/22/2019									
9/24/2019	0.063 (J)		<0.1	0.05 (J)			<0.1		
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									
10/10/2019				0.16 (J)			1.1		
2/10/2020	0.061 (J)		<0.1						
2/11/2020		0.094 (J)							
2/12/2020				<0.1	<0.1	<0.1	<0.1	<0.1	0.4
2/13/2020									
2/14/2020									
2/17/2020									
3/17/2020									
3/18/2020			<0.1		<0.1				
3/19/2020	0.064 (J)	0.11 (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				0.056 (J)			<0.1	<0.1	
9/23/2020	0.058 (J)	0.098 (J)	<0.1						0.47
9/24/2020						<0.1			
9/25/2020					<0.1				
10/7/2020									
2/8/2021				0.055 (J)			<0.1		
2/9/2021								<0.1	

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-3D (bg)
2/10/2021		<0.1			<0.1				0.43
2/11/2021						<0.1			
2/12/2021	0.068 (J)		<0.1						
3/1/2021						<0.1			
3/2/2021				<0.1	<0.1		<0.1		
3/3/2021	0.078 (J)	0.1	<0.1					<0.1	0.44
3/4/2021									
8/19/2021	0.074 (J)		<0.1		<0.1	<0.1			0.47
8/20/2021									
8/25/2021									
8/26/2021				0.061 (J)			<0.1	<0.1	
8/27/2021		0.12							
9/1/2021									
9/3/2021									
9/27/2021									
2/8/2022									
2/9/2022	0.057 (J)	0.097 (J)	<0.1						0.43
2/10/2022				0.055 (J)	<0.1		<0.1		
2/11/2022						<0.1		<0.1	
8/30/2022	0.093 (J)			0.085 (J)			<0.1		
8/31/2022		0.13	0.065 (J)		0.053 (J)	0.06 (J)		0.061 (J)	0.42
9/1/2022									
2/7/2023	0.093 (J)		0.071 (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									
8/15/2023	0.057 (J)		<0.1	<0.1	<0.1		<0.1	<0.1	0.42
8/16/2023		0.11				<0.1			
8/17/2023									
12/20/2023									
2/20/2024	0.086 (J)	0.12	<0.1	0.076 (J)		0.051 (J)	<0.1	0.059 (J)	0.45
2/21/2024									
2/22/2024									
2/23/2024					<0.1				
6/10/2024									
8/20/2024	0.066 (J)	0.12	<0.1	0.058 (J)	<0.1	<0.1	<0.1	<0.1	0.45
8/21/2024									
8/22/2024									
8/23/2024									
11/26/2024									
2/25/2025	0.094 (J)	0.14	0.06 (J)	0.082 (J)	0.052 (J)	0.062 (J)	<0.1	0.061 (J)	0.45
2/26/2025									
2/27/2025									
3/17/2025									
5/21/2025									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWC-23S	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				0.02 (J)		0.03 (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		0.07 (J)	<0.1				
11/4/2016									
11/8/2016						<0.1	0.02 (J)		
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	0.03 (J)	0.03 (J)							
3/2/2017					0.04 (J)				
3/3/2017									
3/6/2017			0.04 (J)	0.09 (J)					
3/7/2017									
3/8/2017							0.03 (J)		
3/9/2017						0.03 (J)			
4/26/2017	<0.1	<0.1	<0.1	0.04 (J)					
4/27/2017									
4/28/2017									
5/1/2017									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWC-23S	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			0.03 (J)	0.05 (J)	0.02 (J)				
6/30/2017									
7/7/2017							<0.1		
7/10/2017						0.04 (J)			
7/11/2017								0.07 (J)	<0.1
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017				0.08 (J)					
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									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWC-23S	YGWC-24SB	YGWA-47 (bg)	YGWC-42
9/25/2018	<0.1	<0.1	<0.1	0.029 (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
10/10/2019			0.099 (J)	0.11 (J)	<0.1	0.11 (J)			
2/10/2020									
2/11/2020	<0.1	<0.1			<0.1				
2/12/2020			<0.1	0.1 (J)					
2/13/2020							<0.1		
2/14/2020									<0.1
2/17/2020						<0.1			
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	0.079 (J)		<0.1			<0.1
9/25/2020									
10/7/2020									
2/8/2021									
2/9/2021	<0.1	<0.1	<0.1	0.092 (J)	<0.1	<0.1	<0.1		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWC-23S	YGWC-24SB	YGWA-47 (bg)	YGWC-42
2/10/2021									<0.1
2/11/2021									
2/12/2021									
3/1/2021								<0.1	
3/2/2021									
3/3/2021	<0.1	<0.1	<0.1		<0.1		<0.1		
3/4/2021				0.091 (J)		<0.1			<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)		
8/15/2023	<0.1	<0.1	<0.1	0.061 (J)	<0.1			<0.1	
8/16/2023						<0.1	<0.1		<0.1
8/17/2023									
12/20/2023									
2/20/2024	<0.1		<0.1	0.083 (J)	<0.1			0.073 (J)	
2/21/2024						<0.1			
2/22/2024									<0.1
2/23/2024		<0.1					<0.1		
6/10/2024									
8/20/2024	<0.1		<0.1	0.062 (J)	<0.1			<0.1	
8/21/2024		0.051 (J)				<0.1			
8/22/2024							<0.1		<0.1
8/23/2024									
11/26/2024									
2/25/2025	<0.1	<0.1	<0.1	0.088 (J)	<0.1			0.069 (J)	
2/26/2025									<0.1
2/27/2025						<0.1			
3/17/2025							<0.1		
5/21/2025									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWA-40 (bg)	YGWC-41
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	0.14 (J)	0.12 (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					0.12 (J)				
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					0.11 (J)				
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 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWA-40 (bg)	YGWC-41
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					0.12 (J)				
10/4/2017									
10/5/2017									
10/6/2017				<0.1					
10/10/2017									
10/11/2017			0.14 (J)	0.14 (J)		<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	<0.1							<0.1	<0.1
2/20/2018						<0.1	<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	<0.1	0.11 (J)
9/19/2018									
9/20/2018		<0.1	<0.1						
9/24/2018						<0.1	0.034 (J)	<0.1	<0.1

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWA-40 (bg)	YGWC-41
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
10/10/2019			0.09 (J)						
2/10/2020									
2/11/2020					0.075 (J)				
2/12/2020						<0.1		<0.1	
2/13/2020									
2/14/2020				<0.1			<0.1		<0.1
2/17/2020		0.15 (J)	<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		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWA-40 (bg)	YGWC-41
2/10/2021				<0.1	0.094 (J)	<0.1		<0.1	<0.1
2/11/2021									
2/12/2021									
3/1/2021									
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	0.064 (J)	0.066 (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									
8/15/2023	0.065 (J)				0.081 (J)	<0.1		<0.1	
8/16/2023		0.062 (J)	<0.1	<0.1			<0.1		<0.1
8/17/2023									
12/20/2023									
2/20/2024	0.094 (J)				0.1	0.063 (J)		<0.1	
2/21/2024			<0.1						
2/22/2024		0.091 (J)					<0.1		<0.1
2/23/2024				<0.1					
6/10/2024									
8/20/2024					0.085 (J)				
8/21/2024						0.083 (J)		0.06 (J)	
8/22/2024		0.05 (J)	<0.1	<0.1					
8/23/2024							<0.1		<0.1
11/26/2024									
2/25/2025					0.12	0.078 (J)		0.053 (J)	
2/26/2025			<0.1	<0.1			<0.1		<0.1
2/27/2025		<0.1							
3/17/2025									
5/21/2025									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-50
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	
9/1/2016	
9/2/2016	
9/13/2016	
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	
11/8/2016	
11/14/2016	
11/15/2016	
11/16/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	
1/12/2017	
1/13/2017	
1/16/2017	
1/17/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
2/28/2017	
3/1/2017	
3/2/2017	
3/3/2017	
3/6/2017	
3/7/2017	
3/8/2017	
3/9/2017	
4/26/2017	
4/27/2017	
4/28/2017	
5/1/2017	

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-50
5/2/2017	
5/8/2017	
5/9/2017	
5/10/2017	
5/26/2017	
6/27/2017	
6/28/2017	
6/29/2017	
6/30/2017	
7/7/2017	
7/10/2017	
7/11/2017	
7/13/2017	
7/17/2017	
9/22/2017	
9/29/2017	
10/3/2017	
10/4/2017	
10/5/2017	
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	
3/28/2018	
3/29/2018	
3/30/2018	
4/2/2018	
4/3/2018	
4/4/2018	
6/5/2018	
6/6/2018	
6/7/2018	
6/8/2018	
6/11/2018	
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 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-50
9/25/2018	
9/26/2018	
9/27/2018	
10/1/2018	
10/2/2018	
2/25/2019	
2/26/2019	
2/27/2019	
3/4/2019	
3/5/2019	
3/6/2019	
3/26/2019	
3/27/2019	
3/28/2019	
3/29/2019	
4/1/2019	
4/2/2019	
4/3/2019	
4/4/2019	
6/12/2019	
8/19/2019	
8/20/2019	
8/21/2019	
8/22/2019	
9/24/2019	
9/25/2019	
9/26/2019	
9/27/2019	
10/8/2019	
10/9/2019	
10/10/2019	
2/10/2020	
2/11/2020	
2/12/2020	
2/13/2020	
2/14/2020	
2/17/2020	
3/17/2020	
3/18/2020	
3/19/2020	
3/24/2020	
3/25/2020	
3/26/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	
9/24/2020	
9/25/2020	
10/7/2020	
2/8/2021	
2/9/2021	

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-50
2/10/2021	
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	
3/4/2021	
8/19/2021	
8/20/2021	
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	
9/3/2021	
9/27/2021	
2/8/2022	
2/9/2022	
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	
2/7/2023	
2/8/2023	
2/9/2023	
2/10/2023	
8/15/2023	
8/16/2023	
8/17/2023	0.12
12/20/2023	0.14
2/20/2024	
2/21/2024	
2/22/2024	0.14
2/23/2024	
6/10/2024	0.11
8/20/2024	
8/21/2024	
8/22/2024	
8/23/2024	0.085 (J)
11/26/2024	0.15
2/25/2025	
2/26/2025	0.077 (J)
2/27/2025	
3/17/2025	
5/21/2025	0.07 (J)

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-14S (bg)
8/27/2008	6.53								
3/3/2009	6.35								
11/18/2009	6.47								
3/3/2010	6.53								
3/10/2011	5.83								
9/8/2011	5.69								
3/5/2012	6.27								
9/10/2012	6.23								
2/6/2013	7.56								
8/12/2013	6.68								
2/5/2014	6.32								
8/3/2015	6.13								
2/16/2016	5.64								
6/1/2016		7.72	7.46	6.33					
6/2/2016					6.36	7.67	5.75	7.84	5.46
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016		7.74		6.21			5.82		
7/26/2016			7.43		6.22	7.66		7.88	5.45
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016	6.32								
9/1/2016									
9/2/2016									
9/13/2016			7.44	6.16					
9/14/2016		7.65			6.23	7.6			
9/15/2016								7.74	5.45
9/16/2016									
9/19/2016							5.78		
9/20/2016									
11/1/2016		7.7	7.24				5.62	7.75	
11/2/2016					6.08	7.35			5.41
11/3/2016									
11/4/2016				6.29					
11/8/2016									
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016	6.23								
12/15/2016									
1/10/2017									5.37
1/11/2017		7.53	7.3					7.66	
1/12/2017						7.49			
1/13/2017					6.19				
1/16/2017				6.29			5.72		
1/17/2017									
2/21/2017							5.67		
2/22/2017	6.21								
2/24/2017									

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-14S (bg)
2/27/2017									
2/28/2017									
3/1/2017		7.42							
3/2/2017			7.23	6.28				7.68	
3/3/2017									
3/6/2017					6.2				
3/7/2017						7.43			
3/8/2017									5.41
3/9/2017									
4/26/2017		7.4					5.56	7.45	5.02
4/27/2017			6.99	6.09					
4/28/2017									
5/1/2017					6.21	7.22			
5/2/2017									
5/8/2017	6.12								
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017			6.87	6.21		7.32			
6/28/2017		7.5						7.65	
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		7.48			
10/4/2017		7.45					5.87	7.49	
10/5/2017					6.16				5.49
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						7.91	
3/29/2018			7.38		6.09	7.02			
3/30/2018									
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018			7.16						

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-14S (bg)
6/6/2018				6.17		7.43			
6/7/2018					6.12			7.69	
6/8/2018		7.64							5.45
6/11/2018							5.69		
6/12/2018									
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018	6.01								
8/7/2018									
9/19/2018									
9/20/2018									
9/24/2018									
9/25/2018									
9/26/2018					5.84	7.13			
9/27/2018									
10/1/2018		7.47	6.8	5.9				7.39	5.39
10/2/2018							5.39		
2/25/2019	6.51								
2/26/2019							5.77		5.46
2/27/2019		7.54	6.84	5.8				7.55	
3/4/2019					6.18	7.46			
3/5/2019									
3/6/2019									
3/26/2019									
3/27/2019									
3/28/2019			6.99	6.15					
3/29/2019									5.34
4/1/2019		7.74					5.62	7.87	
4/2/2019									
4/3/2019					6.43	7.11			
4/4/2019									
6/12/2019	6.3								
8/19/2019	6.23								
8/20/2019									
8/21/2019									
8/22/2019									
9/24/2019			7.07	6.23		6.93			
9/25/2019		7.47			6.2		5.69	7.64	5.19
9/26/2019									
9/27/2019									
10/8/2019	6.28								
10/9/2019									
2/10/2020			7.2	6.1					
2/11/2020		7.09							
2/12/2020					6.15	7.52	5.8	7.83	5.48
2/13/2020									
2/14/2020									
2/17/2020									
3/17/2020	6.14								
3/18/2020				6.19					5.38
3/19/2020		7.31	7.03				6	7.65	

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-14S (bg)
3/24/2020						7.34			
3/25/2020					6.26				
3/26/2020									
5/6/2020	6.24								
8/26/2020	5.67								
8/27/2020									
9/22/2020	5.78				5.8	7.19			
9/23/2020		7.37	7.15	6.01				7.57	
9/24/2020							5.67		
9/25/2020									5.44
10/7/2020									
2/8/2021						7.66			
2/9/2021					6.06				
2/10/2021		7.58						7.81	5.35
2/11/2021							5.73		
2/12/2021			7.14	6.21					
3/1/2021							5.78		
3/2/2021	5.42					7.15			5.49
3/3/2021		8.13	7.2	5.38	6.21			8.39	
3/4/2021									
8/19/2021			6.32	6.38			5.43	5.34	7.32
8/20/2021	5.86								
8/25/2021									
8/26/2021					5.82	7.16			
8/27/2021		7.39							
9/1/2021									
9/3/2021									
9/27/2021									
2/8/2022	5.83								
2/9/2022		7.66	7.12	6.24				7.97	
2/10/2022						6.99			4.5
2/11/2022					5.95		5.59		
8/30/2022	5.39		7.2			7.4			
8/31/2022		7.49		5.64	5.5		5.87	7.65	5.15
9/1/2022									
2/7/2023	5.94		7.86	6.53		6.64			
2/8/2023		7.73					6.43	7.88	5.39
2/9/2023					6.23				
2/10/2023									
8/15/2023	5.3		6.98	5.88	5.99	7.34		7.69	5.03
8/16/2023		7.39					5.55		
8/17/2023									
12/20/2023									
2/20/2024	6.07	7.59	7.06	6.42	6.21	7.56	5.81	7.81	
2/21/2024									
2/22/2024									
2/23/2024									5.39
6/10/2024									
8/20/2024		7.45	7.18	5.77	6.03	7.3	6.07	7.59	5.49
8/21/2024									
8/22/2024									
8/23/2024									

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-14S (bg)
2/25/2025		7.55	7.18	6.02	5.98	7.4	5.45	7.79	5.16
2/26/2025									
2/27/2025									
3/17/2025									

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-5I (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWA-17S (bg)	YGWC-24SB	YGWA-47 (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									
6/2/2016	5.75								
6/6/2016		5.71	6.17						
6/7/2016				5.77	6.1	5.57	5.62		
6/8/2016								5.65	
7/25/2016									
7/26/2016	5.72								
7/27/2016		5.46	6.14	5.79			5.59		
7/28/2016					6.12	5.6			
8/1/2016								5.47	
8/30/2016									5.75
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016									
9/14/2016	5.74								
9/15/2016									
9/16/2016							5.58		
9/19/2016		5.59	6.04	5.73	6.12				
9/20/2016						5.53		5.61	
11/1/2016									
11/2/2016				5.67					
11/3/2016		5.39	5.97		6.07		5.59		
11/4/2016	5.61								
11/8/2016						5.53		5.55	
11/14/2016									5.59
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017		5.48	6.05				5.59		
1/12/2017	5.71								
1/13/2017				5.79	6.41				
1/16/2017						5.59			
1/17/2017								5.53	
2/21/2017									
2/22/2017									
2/24/2017									5.49

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-5I (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWA-17S (bg)	YGWC-24SB	YGWA-47 (bg)
2/27/2017									
2/28/2017									
3/1/2017		5.41	5.94						
3/2/2017							5.54		
3/3/2017									
3/6/2017				5.63	6.34				
3/7/2017	5.66								
3/8/2017								5.62	
3/9/2017						5.56			
4/26/2017		5.4	5.99	5.66	6.32				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017	5.65					5.61	5.47	5.46	
5/8/2017									5.58
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017	5.7								
6/28/2017		5.36	6						
6/29/2017				5.85	6.47		5.56		
6/30/2017									
7/7/2017								5.81	
7/10/2017						5.68			
7/11/2017									5.58
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017	5.79				6.56				
10/4/2017		5.32		5.83			5.57		
10/5/2017			6.11					5.45 (D)	
10/6/2017									
10/10/2017									5.49
10/11/2017						5.46			
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									
3/28/2018		5.34	6.1				5.59		
3/29/2018	5.63			5.93	6.75				
3/30/2018						5.73		5.64 (D)	
4/2/2018									6.3
4/3/2018									
4/4/2018									
6/5/2018					6.09				

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-5I (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWA-17S (bg)	YGWC-24SB	YGWA-47 (bg)
6/6/2018				5.86					
6/7/2018	5.63		5.98						
6/8/2018									
6/11/2018		5.28					5.58		
6/12/2018						5.63		5.64 (D)	
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									5.48
9/20/2018									
9/24/2018									
9/25/2018		4.86	5.81	5.84	6.67		5.59		
9/26/2018	5.63							5.61 (D)	
9/27/2018						5.47			
10/1/2018									
10/2/2018									
2/25/2019									
2/26/2019									
2/27/2019									
3/4/2019	5.75								
3/5/2019		5.26		6.07	7.22		5.48	5.72 (D)	
3/6/2019			5.99			5.84			
3/26/2019									
3/27/2019									5.83
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019					6.94		5.74		
4/3/2019	5.63	5.47	6.29	5.71					
4/4/2019						5.64		5.66 (D)	
6/12/2019									
8/19/2019									
8/20/2019									5.58
8/21/2019									
8/22/2019									
9/24/2019	5.6				6.87				
9/25/2019				5.86			5.49		
9/26/2019		5.2	6.04					5.52 (D)	
9/27/2019						5.77			
10/8/2019									5.59
10/9/2019									
2/10/2020									
2/11/2020		5.3	6.07				5.58		
2/12/2020	5.83			6	7.13				
2/13/2020								5.69	
2/14/2020									
2/17/2020						5.84			
3/17/2020									5.57
3/18/2020									
3/19/2020									

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-5I (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWA-17S (bg)	YGWC-24SB	YGWA-47 (bg)
3/24/2020	5.81	5.33	5.98	5.86	6.35		5.57		
3/25/2020									
3/26/2020						5.69		5.51 (D)	
5/6/2020									
8/26/2020									
8/27/2020									4.88
9/22/2020	5.99								5.46
9/23/2020		5.29	6.01				5.58	5.64	
9/24/2020				5.8	6.7	5.51			
9/25/2020									
10/7/2020									
2/8/2021	5.67								
2/9/2021		5.43	6.12	5.86	6.95	5.61	5.62	5.69	
2/10/2021									
2/11/2021									
2/12/2021									
3/1/2021									5.48
3/2/2021	5.63								
3/3/2021		5.31	5.89	5.89			5.52	5.7	
3/4/2021					6.8	5.44			
8/19/2021									5.5
8/20/2021									
8/25/2021						5.46			
8/26/2021	5.51	4.4							
8/27/2021			5.4	5.57			5.27		
9/1/2021					6.65			5.22	
9/3/2021									
9/27/2021									
2/8/2022									5.4
2/9/2022		5.28	5.98	5.91	6.84		5.53		
2/10/2022	5.14					5.51		4.66 (D)	
2/11/2022									
8/30/2022	5	5.18	5.89		6.58		4.68		
8/31/2022				5.38					5.32
9/1/2022						5.27			
2/7/2023		5.03	6	5.63	6.82		5.47		
2/8/2023						5.33			5.22
2/9/2023	5.9								
2/10/2023								5.67	
8/15/2023	5.58	5.2	5.82	7	6.84		5.54		5.69
8/16/2023						5.36		5.89	
8/17/2023									
12/20/2023									
2/20/2024	5.78		6.11	5.99	6.78		5.64		5.62
2/21/2024						5.43			
2/22/2024									
2/23/2024		5.3						5.62	
6/10/2024									
8/20/2024	5.58		5.74	6	6.6		5.45		5.48
8/21/2024		5.29				5.4			
8/22/2024								5.16	
8/23/2024									

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-5I (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWA-17S (bg)	YGWC-24SB	YGWA-47 (bg)
2/25/2025	5.77	6.26	6	6.07	6.55		5.59		5.52
2/26/2025									
2/27/2025						5.5			
3/17/2025								5.65	

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-42	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-41	YGWC-38
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	5.64								
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				6.28					
11/15/2016			5.81						
11/16/2016	6.21	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		6.39							

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-42	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-41	YGWC-38
2/27/2017	6.09		5.68						
2/28/2017				5.99					
3/1/2017									
3/2/2017									
3/3/2017					7.22				
3/6/2017									
3/7/2017									
3/8/2017									
3/9/2017									
4/26/2017									
4/27/2017									
4/28/2017					7.21				
5/1/2017									
5/2/2017									
5/8/2017									
5/9/2017			6.18	6.3					
5/10/2017	5.79	6.5							
5/26/2017					7.13				
6/27/2017									
6/28/2017					7.06				
6/29/2017									
6/30/2017									
7/7/2017									
7/10/2017									
7/11/2017	5.45	6.32							
7/13/2017			5.6	5.57					
7/17/2017									
9/22/2017				5.5					
9/29/2017				5.58					
10/3/2017					6.99				
10/4/2017									
10/5/2017									
10/6/2017				5.51					
10/10/2017									
10/11/2017			5.61	5.47		6.4			
10/12/2017	5.48	5.97					5.43	4.94	4.85
10/16/2017									
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
3/27/2018									
3/28/2018					7.3				
3/29/2018									
3/30/2018				5.51					
4/2/2018									
4/3/2018						6.87	5.84	5.31	4.76
4/4/2018	5.93	6.41	5.98						
6/5/2018									

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-42	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-41	YGWC-38
6/6/2018									
6/7/2018					7.29				
6/8/2018									
6/11/2018									
6/12/2018									
6/13/2018				5.5					
6/27/2018								4.78	
6/28/2018						6.18	5.24		4.75
8/6/2018									
8/7/2018						6.08	5.18	4.77	4.72
9/19/2018									
9/20/2018	5.63	5.69	5.67						
9/24/2018						5.81	5.14	4.78	4.67
9/25/2018									
9/26/2018				5.53					
9/27/2018									
10/1/2018					7.07				
10/2/2018									
2/25/2019									
2/26/2019									
2/27/2019					7.27				
3/4/2019									
3/5/2019									
3/6/2019				5.21					
3/26/2019							5.3		
3/27/2019	5.57					5.84			4.79
3/28/2019		5.96	5.86					5	
3/29/2019					7.06				
4/1/2019									
4/2/2019									
4/3/2019									
4/4/2019				5.74					
6/12/2019									
8/19/2019									
8/20/2019									
8/21/2019		5.84				5.96	5.26		
8/22/2019	5.61							4.89	4.81
9/24/2019					7.01				
9/25/2019									
9/26/2019			5.6	5.51					
9/27/2019									
10/8/2019									
10/9/2019	5.5	5.78				5.81	5.22	4.86	4.8
2/10/2020									
2/11/2020					7.38				
2/12/2020						5.97	5.3		
2/13/2020									
2/14/2020	5.8			5.71				4.84	4.84
2/17/2020		5.93	5.82						
3/17/2020									
3/18/2020									
3/19/2020					7.22				

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-42	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-41	YGWC-38
3/24/2020							5.29		
3/25/2020	5.53	5.79	5.69	5.49		5.78		4.87	4.89
3/26/2020									
5/6/2020									
8/26/2020									
8/27/2020									
9/22/2020									
9/23/2020					7.22				
9/24/2020	5.55		5.62			5.7	5.43		
9/25/2020		5.75						4.95	4.9
10/7/2020				5.86					
2/8/2021									
2/9/2021		5.86	5.79						5.04
2/10/2021	5.88			6.31	7.29	5.8	5.19	4.98	
2/11/2021									
2/12/2021									
3/1/2021									
3/2/2021									
3/3/2021					7.92				
3/4/2021	5.59	5.88	5.88	5.67		5.54	5.23	4.69	5.01
8/19/2021									
8/20/2021									
8/25/2021	6.73								
8/26/2021						6.91		6.77	4.54
8/27/2021					7.16				
9/1/2021			5.15						
9/3/2021				5.06			5.01		
9/27/2021		6.08							
2/8/2022		5.82	5.79			5.78	5.26	5.07	
2/9/2022					5.86				
2/10/2022	5.57								4.85
2/11/2022				5.58					
8/30/2022					7.04				
8/31/2022			5.34			5.3	4.53		
9/1/2022	5.49	5.62		5.18				4.43	4.91
2/7/2023					6.94	5.49			
2/8/2023	5.48	5.4					5.71	4.69	5.16
2/9/2023			5.61	5.67					
2/10/2023									
8/15/2023					6.96	5.78	5		
8/16/2023	5.53	5.58	5.04	5.36				5.01	4.83
8/17/2023									
12/20/2023									
2/20/2024					7.23	5.97	5.32		
2/21/2024			5.29						
2/22/2024	5.61	5.81						4.84	5.03
2/23/2024				5.2					
6/10/2024									
8/20/2024					6.91				
8/21/2024						6	5.38		
8/22/2024	5.52	5.61	5.72	4.82					
8/23/2024								5.18	5.11

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-42	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-41	YGWC-38
2/25/2025					7.14	5.81	5.07		
2/26/2025	5.42		5.75	5.13				4.77	5.08
2/27/2025		5.65							
3/17/2025									

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-50
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	
8/31/2016	
9/1/2016	
9/2/2016	
9/13/2016	
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	
11/8/2016	
11/14/2016	
11/15/2016	
11/16/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	
1/12/2017	
1/13/2017	
1/16/2017	
1/17/2017	
2/21/2017	
2/22/2017	
2/24/2017	

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-50
2/27/2017	
2/28/2017	
3/1/2017	
3/2/2017	
3/3/2017	
3/6/2017	
3/7/2017	
3/8/2017	
3/9/2017	
4/26/2017	
4/27/2017	
4/28/2017	
5/1/2017	
5/2/2017	
5/8/2017	
5/9/2017	
5/10/2017	
5/26/2017	
6/27/2017	
6/28/2017	
6/29/2017	
6/30/2017	
7/7/2017	
7/10/2017	
7/11/2017	
7/13/2017	
7/17/2017	
9/22/2017	
9/29/2017	
10/3/2017	
10/4/2017	
10/5/2017	
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	
3/28/2018	
3/29/2018	
3/30/2018	
4/2/2018	
4/3/2018	
4/4/2018	
6/5/2018	

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-50
6/6/2018	
6/7/2018	
6/8/2018	
6/11/2018	
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	
9/27/2018	
10/1/2018	
10/2/2018	
2/25/2019	
2/26/2019	
2/27/2019	
3/4/2019	
3/5/2019	
3/6/2019	
3/26/2019	
3/27/2019	
3/28/2019	
3/29/2019	
4/1/2019	
4/2/2019	
4/3/2019	
4/4/2019	
6/12/2019	
8/19/2019	
8/20/2019	
8/21/2019	
8/22/2019	
9/24/2019	
9/25/2019	
9/26/2019	
9/27/2019	
10/8/2019	
10/9/2019	
2/10/2020	
2/11/2020	
2/12/2020	
2/13/2020	
2/14/2020	
2/17/2020	
3/17/2020	
3/18/2020	
3/19/2020	

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-50
3/24/2020	
3/25/2020	
3/26/2020	
5/6/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	
9/24/2020	
9/25/2020	
10/7/2020	
2/8/2021	
2/9/2021	
2/10/2021	
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	
3/4/2021	
8/19/2021	
8/20/2021	
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	
9/3/2021	
9/27/2021	
2/8/2022	
2/9/2022	
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	
2/7/2023	
2/8/2023	
2/9/2023	
2/10/2023	
8/15/2023	
8/16/2023	
8/17/2023	5
12/20/2023	4.63
2/20/2024	
2/21/2024	
2/22/2024	5
2/23/2024	
6/10/2024	4.86
8/20/2024	
8/21/2024	
8/22/2024	
8/23/2024	4.97

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-50
2/25/2025	
2/26/2025	5
2/27/2025	
3/17/2025	

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/1/2016	4.2	12	5						
6/2/2016				8	20	1.9	6.6	1.3	5.8
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016	3.7	8.4						1.2	
7/26/2016			5.4	7.7	20	1.8	6.1		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		7.5	19	1.8			
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				8.2	20		6.3		
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							1.4	
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					7	1.4	5.1
4/27/2017	7.4		5.2						
4/28/2017									
5/1/2017				8.4	20				

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-30I (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							6.5	1.5	
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				9.6			7.9		
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				8.5		2			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				10.2	7.9	2.3			
9/27/2018									
10/1/2018	4	9.1	5.6				6.8		7.1

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-3D (bg)
10/2/2018								1	
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019	4.3		8						
3/29/2019							7.3		
4/1/2019		8.5						0.96 (J)	7.2
4/2/2019									
4/3/2019				8.5	7	2.1			
4/4/2019									
6/12/2019									
9/24/2019	4.3		5.3		5.5	2.4			
9/25/2019		13.8		8.5			6.6	0.81 (J)	7
9/26/2019									
9/27/2019									
10/8/2019									
10/9/2019									
10/10/2019				9.2	<1	1.8			
3/17/2020									
3/18/2020	5.3						8.1		
3/19/2020		12.9	10					1.6	9
3/24/2020					5.9	2.1			
3/25/2020				8.8					
3/26/2020									
9/22/2020				8.2	5.5	2.1			
9/23/2020	3.4	16.8	8.1						6.9
9/24/2020								0.69 (J)	
9/25/2020							6.1		
10/7/2020									
3/1/2021								0.88 (J)	
3/2/2021					2.6	2.3	6		
3/3/2021	4.4	9.6	9	7.8					7
3/4/2021									
8/19/2021	4.9		8.9				6.7	1	7.5
8/20/2021									
8/25/2021									
8/26/2021				8.5	6	2.4			
8/27/2021		18.2							
9/1/2021									
9/3/2021									
9/27/2021									
2/8/2022									
2/9/2022	5.1	16	9.3						7.2
2/10/2022					4.9	2.4	6.2		
2/11/2022				7.7				2.8	
8/30/2022			10.2		5.7	2.4			
8/31/2022	4.8	13.9		8			5.8	1.1	6.9
9/1/2022									
2/7/2023	6.6		10.6		5.2				
2/8/2023		14.7					6.1	0.96 (J)	7.5
2/9/2023				8.9		2.9			
2/10/2023									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-3D (bg)
8/15/2023	4.6		9.6	7.5	4.8	2.2	6		6.8
8/16/2023		20.3						0.9 (J)	
8/17/2023									
12/20/2023									
2/20/2024	4.3	13.8	9.7	8.5	5.1	2.5		0.69 (J)	7
2/21/2024									
2/22/2024									
2/23/2024							7.1		
6/10/2024									
8/20/2024	4.9	13.7	12.2	8.7	4.3	2.6	7.6	0.74 (J)	7.7
8/21/2024									
8/22/2024									
8/23/2024									
11/26/2024									
2/25/2025	3.5	10.9	10.4	7.4	4.6	2.2	6.5	0.74 (J)	6.7
2/26/2025									
2/27/2025									
3/17/2025									
5/21/2025									

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWC-23S	YGWA-17S (bg)	YGWA-20S (bg)	YGWC-24SB	YGWC-42	YGWA-47 (bg)
6/1/2016									
6/2/2016									
6/6/2016	1.8	1.2							
6/7/2016			5.2	56	4.4	<1			
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	4.8			0.08 (J)			
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		5.3				
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	0.99 (J)			5.2				
1/12/2017									
1/13/2017			4.3			0.1 (J)			
1/16/2017				72					
1/17/2017							0.48 (J)		
2/21/2017									
2/22/2017									
2/24/2017									120
2/27/2017								940	
2/28/2017									
3/1/2017	1.6	1.8							
3/2/2017					5				
3/3/2017									
3/6/2017			4.5			<1			
3/7/2017									
3/8/2017							0.29 (J)		
3/9/2017				69					
4/26/2017	1.9	1.6	4.9			<1			
4/27/2017									
4/28/2017									
5/1/2017									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWC-23S	YGWA-17S (bg)	YGWA-20S (bg)	YGWC-24SB	YGWC-42	YGWA-47 (bg)
5/2/2017				60	5		0.29 (J)		
5/8/2017									120
5/9/2017									
5/10/2017								1200	
5/26/2017									
6/27/2017									
6/28/2017	1.5	1.7							
6/29/2017			5.5		5.2	0.15 (J)			
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	0.14 (J)			
10/5/2017		1.6					0.36 (J)		
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	7		6.1	0.13 (J)			
9/26/2018							0.28 (J)		
9/27/2018				39.6					
10/1/2018									

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWC-23S	YGWA-17S (bg)	YGWA-20S (bg)	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			3.8		5.1				
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								728.5 (D)	
10/10/2019			3.6	29.5	5.5	0.058 (J)			
3/17/2020									71.6
3/18/2020									
3/19/2020									
3/24/2020	0.99 (J)	<1	3		5.4	<1			
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			3.6	52.5		<1		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				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)	3.9		4.8	<1			
2/10/2022				78.7			<1	485	
2/11/2022									
8/30/2022	1.3	0.78 (J)	3.2		4.7				
8/31/2022						<1			48
9/1/2022				79				502	
2/7/2023	1.2	0.78 (J)	3.8		4.9	<1			
2/8/2023				78				494	50.5
2/9/2023									
2/10/2023							0.5 (J)		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWC-23S	YGWA-17S (bg)	YGWA-20S (bg)	YGWC-24SB	YGWC-42	YGWA-47 (bg)
8/15/2023	0.88 (J)	0.51 (J)	4.1		4.6	<1			47.7
8/16/2023				69.3			<1	451	
8/17/2023									
12/20/2023									
2/20/2024		<1	3.8		4.6	<1			51
2/21/2024				81					
2/22/2024								487	
2/23/2024	0.79 (J)						<1		
6/10/2024									
8/20/2024		0.74 (J)	4		4.6	<1			53.9
8/21/2024	1.1			89.3					
8/22/2024							<1	432	
8/23/2024									
11/26/2024									
2/25/2025	0.59 (J)	<1	3.3		3.6	<1			48.3
2/26/2025								432	
2/27/2025				92.2					
3/17/2025							<1		
5/21/2025									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWA-40 (bg)	YGWC-41
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	34	29							
9/1/2016			95						
9/2/2016				72					
9/13/2016									
9/14/2016					9.4				
9/15/2016									
9/16/2016									
9/19/2016									
9/20/2016									
11/1/2016									
11/2/2016									
11/3/2016									
11/4/2016					13				
11/8/2016									
11/14/2016				110					
11/15/2016			94						
11/16/2016	240								
11/28/2016		36							
12/15/2016					1.8				
1/10/2017									
1/11/2017									
1/12/2017									
1/13/2017									
1/16/2017					11				
1/17/2017									
2/21/2017									
2/22/2017		43							
2/24/2017	89								
2/27/2017			84						
2/28/2017				110					
3/1/2017									
3/2/2017									
3/3/2017					8.8				
3/6/2017									
3/7/2017									
3/8/2017									
3/9/2017									
4/26/2017									
4/27/2017									
4/28/2017					10				
5/1/2017									

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWA-40 (bg)	YGWC-41
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						940	17	400
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						57.2	414
2/20/2018						20.6	905		
4/2/2018									
4/3/2018						24.5	872	49.4	406
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	879	40.5	346
9/19/2018									
9/20/2018	247		84.1						
9/24/2018						21.2	872	39.7	358
9/25/2018									
9/26/2018				160					
9/27/2018									
10/1/2018					9.1				

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWA-40 (bg)	YGWC-41
10/2/2018									
2/25/2019		42.1							
3/26/2019								34.3	
3/27/2019						17.7	851		
3/28/2019	181		82.8						258
3/29/2019					9				
4/1/2019									
4/2/2019									
4/3/2019									
4/4/2019				119					
6/12/2019		83.4							
9/24/2019					9.1				
9/25/2019									
9/26/2019			80	84.8					
9/27/2019									
10/8/2019		128							
10/9/2019	279					14.85 (D)	700 (D)	27.75 (D)	259.5 (D)
10/10/2019									
3/17/2020		98.6							
3/18/2020									
3/19/2020					12.4				
3/24/2020								25.2	
3/25/2020	164		76.1	58.8		14.3	483		214
3/26/2020									
9/22/2020		145							
9/23/2020					11.8				
9/24/2020			77			11.7		22.9	
9/25/2020	281						414		175
10/7/2020				18.2					
3/1/2021									
3/2/2021		156							
3/3/2021					10.6				
3/4/2021	328		75.1	6.3		12	356	21.5	117
8/19/2021									
8/20/2021		121							
8/25/2021									
8/26/2021						19.2	328		117
8/27/2021					16.7				
9/1/2021			79.8						
9/3/2021				13.8				21.3	
9/27/2021	56.5								
2/8/2022	133	107	73.9			14.6		17.9	109
2/9/2022					18				
2/10/2022							290		
2/11/2022				16.4					
8/30/2022		101			20.1				
8/31/2022			71			10.9		17.9	
9/1/2022	169			28.2			282		117
2/7/2023		82.4			17.8	9.7			
2/8/2023	164						251	17.5	119
2/9/2023			71.1	50.8					
2/10/2023									

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell
Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWA-40 (bg)	YGWC-41
8/15/2023		74.2			17.2	7.6		16.4	
8/16/2023	151		63.8	93.9			227		104
8/17/2023									
12/20/2023									
2/20/2024		75			23.1	8.6		17.2	
2/21/2024			65.4						
2/22/2024	147						210		109
2/23/2024				156					
6/10/2024									
8/20/2024					21.3				
8/21/2024						6.6		18.2	
8/22/2024	181		66.4	191					
8/23/2024							186		97.8
11/26/2024									
2/25/2025					13.8	6.5		15.4	
2/26/2025			56.8	199			159		96.4
2/27/2025	187								
3/17/2025									
5/21/2025									

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-50
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	
9/1/2016	
9/2/2016	
9/13/2016	
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	
11/8/2016	
11/14/2016	
11/15/2016	
11/16/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	
1/12/2017	
1/13/2017	
1/16/2017	
1/17/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
2/28/2017	
3/1/2017	
3/2/2017	
3/3/2017	
3/6/2017	
3/7/2017	
3/8/2017	
3/9/2017	
4/26/2017	
4/27/2017	
4/28/2017	
5/1/2017	

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-50
5/2/2017	
5/8/2017	
5/9/2017	
5/10/2017	
5/26/2017	
6/27/2017	
6/28/2017	
6/29/2017	
6/30/2017	
7/7/2017	
7/10/2017	
7/11/2017	
7/13/2017	
7/17/2017	
9/22/2017	
9/29/2017	
10/3/2017	
10/4/2017	
10/5/2017	
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	
6/6/2018	
6/7/2018	
6/8/2018	
6/11/2018	
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	
9/27/2018	
10/1/2018	

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-50
10/2/2018	
2/25/2019	
3/26/2019	
3/27/2019	
3/28/2019	
3/29/2019	
4/1/2019	
4/2/2019	
4/3/2019	
4/4/2019	
6/12/2019	
9/24/2019	
9/25/2019	
9/26/2019	
9/27/2019	
10/8/2019	
10/9/2019	
10/10/2019	
3/17/2020	
3/18/2020	
3/19/2020	
3/24/2020	
3/25/2020	
3/26/2020	
9/22/2020	
9/23/2020	
9/24/2020	
9/25/2020	
10/7/2020	
3/1/2021	
3/2/2021	
3/3/2021	
3/4/2021	
8/19/2021	
8/20/2021	
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	
9/3/2021	
9/27/2021	
2/8/2022	
2/9/2022	
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	
2/7/2023	
2/8/2023	
2/9/2023	
2/10/2023	

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-50
8/15/2023	
8/16/2023	
8/17/2023	1140
12/20/2023	1180
2/20/2024	
2/21/2024	
2/22/2024	1170
2/23/2024	
6/10/2024	1130
8/20/2024	
8/21/2024	
8/22/2024	
8/23/2024	1130
11/26/2024	1010
2/25/2025	
2/26/2025	1040
2/27/2025	
3/17/2025	
5/21/2025	1220

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-30I (bg)
6/1/2016	150	54	120						
6/2/2016				96	160	130	66	46	36
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016	135	48							50
7/26/2016			94	92	177	141	78	54	
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			102	187		73		
9/15/2016						153		54	
9/16/2016									
9/19/2016									35
9/20/2016									
11/1/2016	75		44			92			<25
11/2/2016				115	181			71	
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					181		52	55
4/27/2017		31	116						
4/28/2017									
5/1/2017				107	165				

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-30I (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								45	42
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					141			31
10/5/2017				95				40	
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				90		95	142		
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				116	144		86		
9/27/2018									
10/1/2018	138	60	117			165		50	

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-30I (bg)
10/2/2018									57
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019		87	87						
3/29/2019								63	
4/1/2019	19 (J)					149			54
4/2/2019									
4/3/2019				111	142		83		
4/4/2019									
6/12/2019									
9/24/2019		54	124		129		79		
9/25/2019	159			117		157		64	51
9/26/2019									
9/27/2019									
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020		35						57	
3/19/2020	148		116			146			47
3/24/2020					139		68		
3/25/2020				146					
3/26/2020									
9/22/2020				83	104		75		
9/23/2020	155	15	108			157			
9/24/2020									51
9/25/2020								54	
10/7/2020									
3/1/2021									23
3/2/2021					52		67	67	
3/3/2021	111	39	99	80		137			
3/4/2021									
8/19/2021		44	105			144		54	50
8/20/2021									
8/25/2021									
8/26/2021				93	123		86		
8/27/2021	155								
9/1/2021									
9/3/2021									
9/27/2021									
2/8/2022									
2/9/2022	145	57	105			154			
2/10/2022					127		77	56	
2/11/2022				102					66
8/30/2022			116		148		86		
8/31/2022	137	46		92		141		51	33
9/1/2022									
2/7/2023		121	131		180				
2/8/2023	145					144		56	43
2/9/2023				124			59		
2/10/2023									
8/15/2023		65	121	99	219	231	76	69	

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-30I (bg)
8/16/2023	148								48
8/17/2023									
12/20/2023									
2/20/2024	220	59	130	140	639 (O)	294	137		55
2/21/2024									
2/22/2024									
2/23/2024								64	
6/10/2024									
8/20/2024	179	67	140	128	212	164	108	81	69
8/21/2024									
8/22/2024									
8/23/2024									
11/26/2024									
2/25/2025	136	47	121	105	146	147	83	64	51
2/26/2025									
2/27/2025									
3/17/2025									
5/21/2025									

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-23S	YGWA-20S (bg)	YGWC-24SB	YGWC-42	YGWA-47 (bg)
6/1/2016									
6/2/2016									
6/6/2016	120	58							
6/7/2016			28	60	130	38			
6/8/2016							66		
7/25/2016									
7/26/2016									
7/27/2016	94	35	74			74			
7/28/2016				81	119				
8/1/2016							56		
8/30/2016								1650	319
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016		35	67						
9/19/2016	92			68		45			
9/20/2016					132		53		
11/1/2016									
11/2/2016						53			
11/3/2016	104	48	41	61					
11/4/2016									
11/8/2016					146		58		
11/14/2016									280
11/15/2016									
11/16/2016								1420	
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	133	95	104						
1/12/2017									
1/13/2017				76		46			
1/16/2017					194				
1/17/2017							56		
2/21/2017									
2/22/2017									
2/24/2017									162
2/27/2017								1640	
2/28/2017									
3/1/2017	119	79							
3/2/2017			77						
3/3/2017									
3/6/2017				167		164			
3/7/2017									
3/8/2017							192		
3/9/2017					288				
4/26/2017	162	36		50		34			
4/27/2017									
4/28/2017									
5/1/2017									

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-23S	YGWA-20S (bg)	YGWC-24SB	YGWC-42	YGWA-47 (bg)
5/2/2017			142		221		113		
5/8/2017									194
5/9/2017									
5/10/2017								1630	
5/26/2017									
6/27/2017									
6/28/2017	98	45							
6/29/2017			53	94		68			
6/30/2017									
7/7/2017							46		
7/10/2017					123				
7/11/2017								1800	193
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017				149					
10/4/2017		45	61			54			
10/5/2017	104						48		
10/6/2017									
10/10/2017									175
10/11/2017					100				
10/12/2017								1600	
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									192
4/3/2018									
4/4/2018								1520	
6/5/2018				109					
6/6/2018						79			
6/7/2018	68								
6/8/2018									
6/11/2018		74	70						
6/12/2018					115		79		
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									186
9/20/2018								1240	
9/24/2018									
9/25/2018	109	63	86	122		73			
9/26/2018							59		
9/27/2018					105				
10/1/2018									

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-23S	YGWA-20S (bg)	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	89	63				57			
4/4/2019					85		63		
6/12/2019									
9/24/2019				157					
9/25/2019			81			75			
9/26/2019	126	72					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	91	59	71	117		76			
3/25/2020								1200	
3/26/2020					110		67		
9/22/2020									141
9/23/2020	103	81	99				87		
9/24/2020				113	129	69		1060	
9/25/2020									
10/7/2020									
3/1/2021									145
3/2/2021									
3/3/2021	95	37	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	103	60	81	131		72			
2/10/2022					180		78	882	
2/11/2022									
8/30/2022	100	52	81	122					
8/31/2022						62			116
9/1/2022					191			934	
2/7/2023	96	55	78	163		89			
2/8/2023					158			853	141
2/9/2023									
2/10/2023							66		
8/15/2023	96	81	74	126		62			186

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-23S	YGWA-20S (bg)	YGWC-24SB	YGWC-42	YGWA-47 (bg)
8/16/2023					170		68	904	
8/17/2023									
12/20/2023									
2/20/2024	129		77	156		164			159
2/21/2024					192				
2/22/2024								881	
2/23/2024		52					75		
6/10/2024									
8/20/2024	128		86	143		75			155
8/21/2024		79			193				
8/22/2024							82	830	
8/23/2024									
11/26/2024									
2/25/2025	110	69	93	110		69			147
2/26/2025								849	
2/27/2025					218				
3/17/2025							70		
5/21/2025									

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWC-43	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	209	80							
9/1/2016			228						
9/2/2016				243					
9/13/2016									
9/14/2016					152				
9/15/2016									
9/16/2016									
9/19/2016									
9/20/2016									
11/1/2016									
11/2/2016									
11/3/2016									
11/4/2016					148				
11/8/2016									
11/14/2016				272					
11/15/2016			211						
11/16/2016		112							
11/28/2016	102								
12/15/2016					191				
1/10/2017									
1/11/2017									
1/12/2017									
1/13/2017									
1/16/2017					180				
1/17/2017									
2/21/2017									
2/22/2017	164								
2/24/2017		147							
2/27/2017			382						
2/28/2017				306					
3/1/2017									
3/2/2017									
3/3/2017					156				
3/6/2017									
3/7/2017									
3/8/2017									
3/9/2017									
4/26/2017									
4/27/2017									
4/28/2017					130				
5/1/2017									

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWC-41	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					1360	636	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	1390	660	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	1340	574	103
9/19/2018									
9/20/2018		434	186						
9/24/2018						82	1400	588	107
9/25/2018									
9/26/2018				277					
9/27/2018									
10/1/2018					155				

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWC-41	YGWA-40 (bg)
10/2/2018									
2/25/2019	92								
3/26/2019									90
3/27/2019						75	1190		
3/28/2019		323	164					372	
3/29/2019					150				
4/1/2019									
4/2/2019									
4/3/2019									
4/4/2019				240					
6/12/2019	226								
9/24/2019					146				
9/25/2019									
9/26/2019			192	198					
9/27/2019									
10/8/2019	276								
10/9/2019		501				119	1100	440	98
3/17/2020	185								
3/18/2020									
3/19/2020					148				
3/24/2020									84
3/25/2020		352	130	164		158	883	428	
3/26/2020									
9/22/2020	281								
9/23/2020					161				
9/24/2020			187			170			77
9/25/2020		494					664	307	
10/7/2020				137					
3/1/2021									
3/2/2021	296								
3/3/2021					138				
3/4/2021		592	145	69		168	600	224	57
8/19/2021									
8/20/2021	254								
8/25/2021									
8/26/2021						249	562	225	
8/27/2021					150				
9/1/2021			163						
9/3/2021				89					88
9/27/2021		158							
2/8/2022	283	294	164			248		226	93
2/9/2022					156				
2/10/2022							541		
2/11/2022				81					
8/30/2022	244				153				
8/31/2022			207			242			92
9/1/2022		366		108			499	205	
2/7/2023	207				159	224			
2/8/2023		333					579	257	115
2/9/2023			145	116					
2/10/2023									
8/15/2023	230				157	225			83

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell
Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWC-41	YGWA-40 (bg)
8/16/2023		356	159	234			460	266	
8/17/2023									
12/20/2023									
2/20/2024	214				159	233			109
2/21/2024			173						
2/22/2024		313					403	224	
2/23/2024				308					
6/10/2024									
8/20/2024					184				
8/21/2024						235			94
8/22/2024		412	159	783					
8/23/2024							418	225	
11/26/2024									
2/25/2025					156	228			86
2/26/2025			150	421			347	215	
2/27/2025		415							
3/17/2025									
5/21/2025									

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-50
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	
9/1/2016	
9/2/2016	
9/13/2016	
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	
11/8/2016	
11/14/2016	
11/15/2016	
11/16/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	
1/12/2017	
1/13/2017	
1/16/2017	
1/17/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
2/28/2017	
3/1/2017	
3/2/2017	
3/3/2017	
3/6/2017	
3/7/2017	
3/8/2017	
3/9/2017	
4/26/2017	
4/27/2017	
4/28/2017	
5/1/2017	

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-50
5/2/2017	
5/8/2017	
5/9/2017	
5/10/2017	
5/26/2017	
6/27/2017	
6/28/2017	
6/29/2017	
6/30/2017	
7/7/2017	
7/10/2017	
7/11/2017	
7/13/2017	
7/17/2017	
9/22/2017	
9/29/2017	
10/3/2017	
10/4/2017	
10/5/2017	
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	
6/6/2018	
6/7/2018	
6/8/2018	
6/11/2018	
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	
9/27/2018	
10/1/2018	

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-50
10/2/2018	
2/25/2019	
3/26/2019	
3/27/2019	
3/28/2019	
3/29/2019	
4/1/2019	
4/2/2019	
4/3/2019	
4/4/2019	
6/12/2019	
9/24/2019	
9/25/2019	
9/26/2019	
9/27/2019	
10/8/2019	
10/9/2019	
3/17/2020	
3/18/2020	
3/19/2020	
3/24/2020	
3/25/2020	
3/26/2020	
9/22/2020	
9/23/2020	
9/24/2020	
9/25/2020	
10/7/2020	
3/1/2021	
3/2/2021	
3/3/2021	
3/4/2021	
8/19/2021	
8/20/2021	
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	
9/3/2021	
9/27/2021	
2/8/2022	
2/9/2022	
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	
2/7/2023	
2/8/2023	
2/9/2023	
2/10/2023	
8/15/2023	

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 7/7/2025 2:47 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-50
8/16/2023	
8/17/2023	2010
12/20/2023	1930
2/20/2024	
2/21/2024	
2/22/2024	1930
2/23/2024	
6/10/2024	2030
8/20/2024	
8/21/2024	
8/22/2024	
8/23/2024	2050
11/26/2024	2010
2/25/2025	
2/26/2025	2040
2/27/2025	
3/17/2025	
5/21/2025	2090

FIGURE E.

Appendix III Trend Tests - Significant Results

Plant Yates Client: Southern Company Data: Yates AMA-R6 Printed 7/7/2025, 2:54 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	YGWA-18S (bg)	0.001383	106	105	Yes	24	29.17	n/a	0.01	NP
Boron (mg/L)	YGWA-39 (bg)	0.01699	128	87	Yes	21	4.762	n/a	0.01	NP
Boron (mg/L)	YGWA-40 (bg)	-0.01069	-141	-87	Yes	21	0	n/a	0.01	NP
Boron (mg/L)	YGWC-38	-2.835	-187	-87	Yes	21	0	n/a	0.01	NP
Boron (mg/L)	YGWC-41	-1.642	-151	-87	Yes	21	0	n/a	0.01	NP
Boron (mg/L)	YGWC-42	-1.239	-140	-87	Yes	21	0	n/a	0.01	NP
Boron (mg/L)	YGWC-43	0.3609	135	87	Yes	21	0	n/a	0.01	NP
Calcium (mg/L)	GWA-2 (bg)	2.258	92	81	Yes	20	5	n/a	0.01	NP
Calcium (mg/L)	YGWA-1D (bg)	0.5297	156	105	Yes	24	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-1I (bg)	-0.07121	-145	-105	Yes	24	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-5D (bg)	-0.954	-118	-111	Yes	25	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-5I (bg)	0.07137	183	111	Yes	25	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-17S (bg)	0.1399	224	111	Yes	25	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-18S (bg)	-0.05985	-185	-105	Yes	24	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-30I (bg)	0.02843	114	105	Yes	24	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-39 (bg)	2.416	139	87	Yes	21	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-47 (bg)	-0.7627	-140	-87	Yes	21	4.762	n/a	0.01	NP
Calcium (mg/L)	YGWC-38	-23.52	-196	-87	Yes	21	0	n/a	0.01	NP
Calcium (mg/L)	YGWC-42	-9.638	-160	-87	Yes	21	0	n/a	0.01	NP
Sulfate (mg/L)	GWA-2 (bg)	9.755	89	81	Yes	20	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-1D (bg)	0.8411	210	105	Yes	24	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-2I (bg)	1.308	141	105	Yes	24	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3D (bg)	0.2228	127	105	Yes	24	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3I (bg)	0.6848	128	105	Yes	24	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5D (bg)	-2.029	-218	-111	Yes	25	4	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5I (bg)	0.07442	179	111	Yes	25	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18I (bg)	-0.08662	-107	-105	Yes	24	16.67	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18S (bg)	-0.1227	-171	-105	Yes	24	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-30I (bg)	-0.0618	-109	-105	Yes	24	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-39 (bg)	-2.355	-162	-87	Yes	21	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-40 (bg)	-5.328	-161	-87	Yes	21	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-47 (bg)	-9.679	-165	-87	Yes	21	0	n/a	0.01	NP
Sulfate (mg/L)	YGWC-42	-82.83	-170	-87	Yes	21	0	n/a	0.01	NP
TDS (mg/L)	YGWA-21I (bg)	8.192	112	105	Yes	24	0	n/a	0.01	NP
TDS (mg/L)	YGWA-39 (bg)	23.65	120	87	Yes	21	0	n/a	0.01	NP
TDS (mg/L)	YGWA-47 (bg)	-9.065	-118	-87	Yes	21	0	n/a	0.01	NP
TDS (mg/L)	YGWC-38	-157.7	-172	-87	Yes	21	0	n/a	0.01	NP
TDS (mg/L)	YGWC-42	-104.1	-158	-87	Yes	21	0	n/a	0.01	NP
TDS (mg/L)	YGWC-43	30.9	106	87	Yes	21	0	n/a	0.01	NP

Appendix III Trend Tests - All Results

Plant Yates Client: Southern Company Data: Yates AMA-R6 Printed 7/7/2025, 2:54 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	GWA-2 (bg)	0	26	81	No	20	65	n/a	0.01	NP
Boron (mg/L)	YGWA-1D (bg)	0.001316	85	105	No	24	45.83	n/a	0.01	NP
Boron (mg/L)	YGWA-1I (bg)	0	-8	-105	No	24	70.83	n/a	0.01	NP
Boron (mg/L)	YGWA-2I (bg)	0	14	105	No	24	83.33	n/a	0.01	NP
Boron (mg/L)	YGWA-3D (bg)	0	40	105	No	24	66.67	n/a	0.01	NP
Boron (mg/L)	YGWA-3I (bg)	0	6	105	No	24	87.5	n/a	0.01	NP
Boron (mg/L)	YGWA-4I (bg)	0	31	105	No	24	75	n/a	0.01	NP
Boron (mg/L)	YGWA-5D (bg)	0.0006459	88	105	No	24	25	n/a	0.01	NP
Boron (mg/L)	YGWA-5I (bg)	0	10	105	No	24	70.83	n/a	0.01	NP
Boron (mg/L)	YGWA-14S (bg)	-0.0001609	-34	-105	No	24	4.167	n/a	0.01	NP
Boron (mg/L)	YGWA-17S (bg)	0.0005253	92	105	No	24	16.67	n/a	0.01	NP
Boron (mg/L)	YGWA-18I (bg)	0	-2	-105	No	24	83.33	n/a	0.01	NP
Boron (mg/L)	**YGWA-18S (bg)**	**0.001383**	**106**	**105**	**Yes**	**24**	**29.17**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWA-20S (bg)	0	1	105	No	24	91.67	n/a	0.01	NP
Boron (mg/L)	YGWA-21I (bg)	0	-14	-105	No	24	54.17	n/a	0.01	NP
Boron (mg/L)	YGWA-30I (bg)	0	-4	-105	No	24	87.5	n/a	0.01	NP
Boron (mg/L)	**YGWA-39 (bg)**	**0.01699**	**128**	**87**	**Yes**	**21**	**4.762**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWA-40 (bg)**	**-0.01069**	**-141**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWA-47 (bg)	-0.0001691	-18	-87	No	21	9.524	n/a	0.01	NP
Boron (mg/L)	**YGWC-38**	**-2.835**	**-187**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWC-41**	**-1.642**	**-151**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWC-23S	0.02539	47	105	No	24	0	n/a	0.01	NP
Boron (mg/L)	**YGWC-42**	**-1.239**	**-140**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWC-43**	**0.3609**	**135**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWC-50	1.377	10	21	No	8	0	n/a	0.01	NP
Calcium (mg/L)	**GWA-2 (bg)**	**2.258**	**92**	**81**	**Yes**	**20**	**5**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-1D (bg)**	**0.5297**	**156**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-1I (bg)**	**-0.07121**	**-145**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-2I (bg)	0.2799	55	105	No	24	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-3D (bg)	0.2329	70	105	No	24	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-3I (bg)	0.4036	98	105	No	24	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-4I (bg)	0.04754	29	111	No	25	0	n/a	0.01	NP
Calcium (mg/L)	**YGWA-5D (bg)**	**-0.954**	**-118**	**-111**	**Yes**	**25**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-5I (bg)**	**0.07137**	**183**	**111**	**Yes**	**25**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-14S (bg)	0.01105	65	105	No	24	0	n/a	0.01	NP
Calcium (mg/L)	**YGWA-17S (bg)**	**0.1399**	**224**	**111**	**Yes**	**25**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-18I (bg)	0.06656	87	105	No	24	0	n/a	0.01	NP
Calcium (mg/L)	**YGWA-18S (bg)**	**-0.05985**	**-185**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-20S (bg)	0.0347	98	111	No	25	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-21I (bg)	0.3697	85	111	No	25	0	n/a	0.01	NP
Calcium (mg/L)	**YGWA-30I (bg)**	**0.02843**	**114**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-39 (bg)**	**2.416**	**139**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-40 (bg)	-0.1992	-62	-87	No	21	4.762	n/a	0.01	NP
Calcium (mg/L)	**YGWA-47 (bg)**	**-0.7627**	**-140**	**-87**	**Yes**	**21**	**4.762**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWC-38**	**-23.52**	**-196**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWC-36A	0.5688	33	111	No	25	0	n/a	0.01	NP
Calcium (mg/L)	**YGWC-42**	**-9.638**	**-160**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWC-50	36.03	14	21	No	8	0	n/a	0.01	NP
Sulfate (mg/L)	**GWA-2 (bg)**	**9.755**	**89**	**81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-1D (bg)**	**0.8411**	**210**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-1I (bg)	-0.09313	-44	-105	No	24	0	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-2I (bg)**	**1.308**	**141**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-3D (bg)**	**0.2228**	**127**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-3I (bg)**	**0.6848**	**128**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-4I (bg)	0	9	111	No	25	0	n/a	0.01	NP

Appendix III Trend Tests - All Results

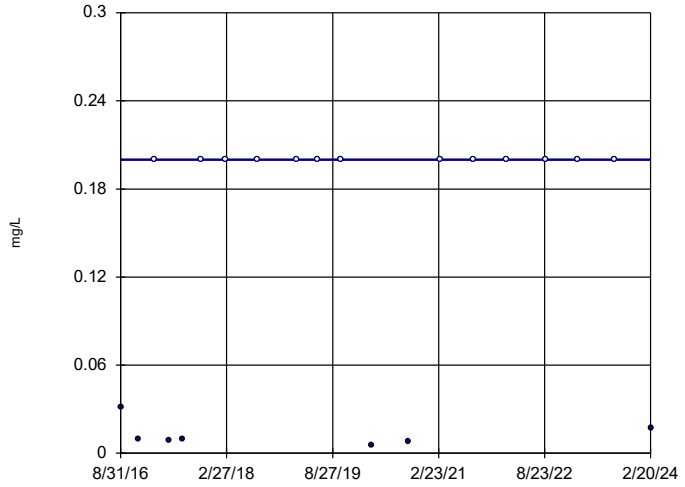
Plant Yates Client: Southern Company Data: Yates AMA-R6 Printed 7/7/2025, 2:54 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Sulfate (mg/L)	**YGWA-5D (bg)**	**-2.029**	**-218**	**-111**	**Yes**	**25**	**4**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-5I (bg)**	**0.07442**	**179**	**111**	**Yes**	**25**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-14S (bg)	0	4	105	No	24	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-17S (bg)	-0.05102	-55	-111	No	25	0	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-18I (bg)**	**-0.08662**	**-107**	**-105**	**Yes**	**24**	**16.67**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-18S (bg)**	**-0.1227**	**-171**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-20S (bg)	0.003345	107	111	No	25	60	n/a	0.01	NP
Sulfate (mg/L)	YGWA-21I (bg)	-0.1796	-102	-111	No	25	0	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-30I (bg)**	**-0.0618**	**-109**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-39 (bg)**	**-2.355**	**-162**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-40 (bg)**	**-5.328**	**-161**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-47 (bg)**	**-9.679**	**-165**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWC-36A	-0.6826	-13	-105	No	24	0	n/a	0.01	NP
Sulfate (mg/L)	**YGWC-42**	**-82.83**	**-170**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWC-43	8.979	58	87	No	21	0	n/a	0.01	NP
Sulfate (mg/L)	YGWC-50	-61.16	-7	-21	No	8	0	n/a	0.01	NP
TDS (mg/L)	GWA-2 (bg)	12.15	73	81	No	20	0	n/a	0.01	NP
TDS (mg/L)	YGWA-1D (bg)	2.993	99	105	No	24	0	n/a	0.01	NP
TDS (mg/L)	YGWA-1I (bg)	0	2	105	No	24	0	n/a	0.01	NP
TDS (mg/L)	YGWA-2I (bg)	0.4129	20	105	No	24	0	n/a	0.01	NP
TDS (mg/L)	YGWA-3D (bg)	2.591	59	105	No	24	0	n/a	0.01	NP
TDS (mg/L)	YGWA-3I (bg)	2.067	45	105	No	24	0	n/a	0.01	NP
TDS (mg/L)	YGWA-4I (bg)	2.052	50	105	No	24	0	n/a	0.01	NP
TDS (mg/L)	YGWA-5D (bg)	-5.897	-61	-98	No	23	0	n/a	0.01	NP
TDS (mg/L)	YGWA-5I (bg)	0.3624	18	105	No	24	0	n/a	0.01	NP
TDS (mg/L)	YGWA-14S (bg)	1.401	67	105	No	24	0	n/a	0.01	NP
TDS (mg/L)	YGWA-17S (bg)	2.373	77	105	No	24	0	n/a	0.01	NP
TDS (mg/L)	YGWA-18I (bg)	0.2504	7	105	No	24	0	n/a	0.01	NP
TDS (mg/L)	YGWA-18S (bg)	1.39	46	105	No	24	0	n/a	0.01	NP
TDS (mg/L)	YGWA-20S (bg)	2.836	81	105	No	24	0	n/a	0.01	NP
TDS (mg/L)	**YGWA-21I (bg)**	**8.192**	**112**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
TDS (mg/L)	YGWA-30I (bg)	1.9	69	105	No	24	8.333	n/a	0.01	NP
TDS (mg/L)	**YGWA-39 (bg)**	**23.65**	**120**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
TDS (mg/L)	YGWA-40 (bg)	-3.94	-62	-87	No	21	0	n/a	0.01	NP
TDS (mg/L)	**YGWA-47 (bg)**	**-9.065**	**-118**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**YGWC-38**	**-157.7**	**-172**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
TDS (mg/L)	YGWC-36A	-18.6	-56	-105	No	24	0	n/a	0.01	NP
TDS (mg/L)	**YGWC-42**	**-104.1**	**-158**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**YGWC-43**	**30.9**	**106**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
TDS (mg/L)	YGWC-50	74.43	16	21	No	8	0	n/a	0.01	NP

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Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-2 (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = 26
critical = 81

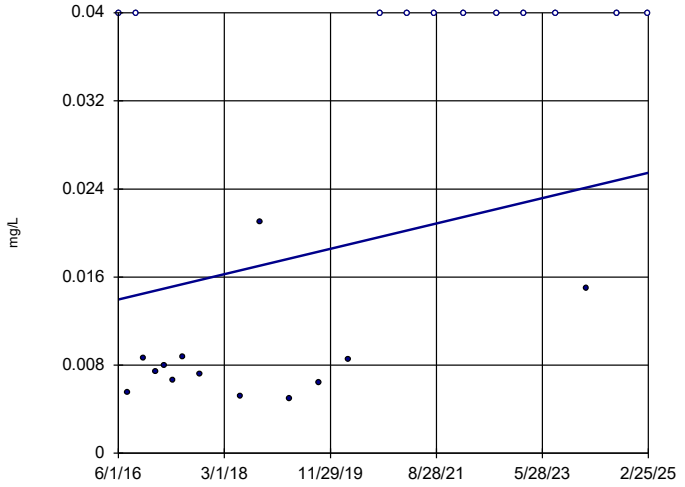
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 7/7/2025 2:52 PM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-1D (bg)



n = 24

Slope = 0.001316 units per year.

Mann-Kendall statistic = 85
critical = 105

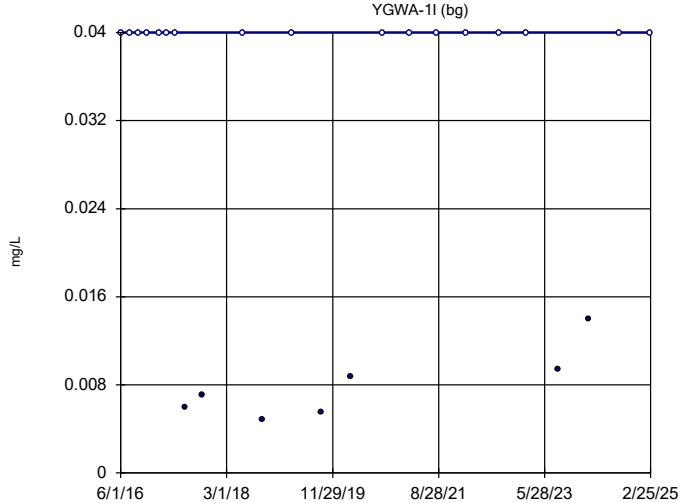
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 7/7/2025 2:52 PM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-1I (bg)



n = 24

Slope = 0 units per year.

Mann-Kendall statistic = -8
critical = -105

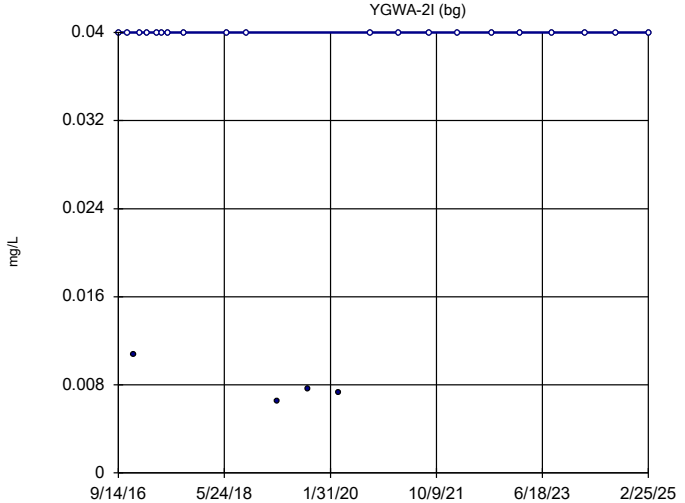
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 7/7/2025 2:52 PM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-2I (bg)



n = 24

Slope = 0 units per year.

Mann-Kendall statistic = 14
critical = 105

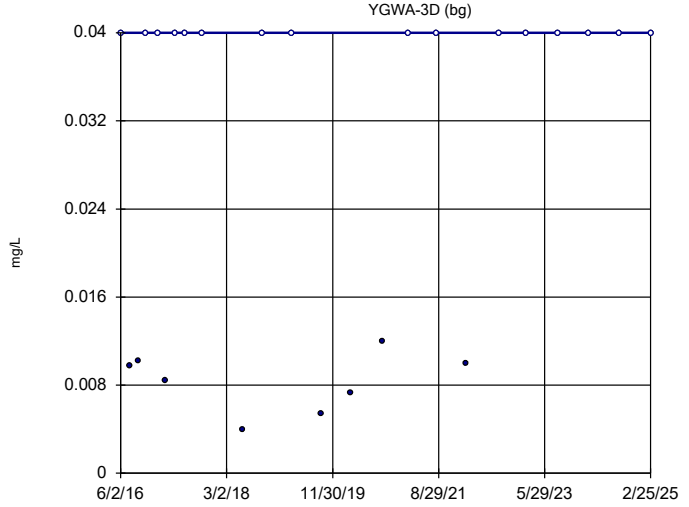
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 7/7/2025 2:52 PM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3D (bg)



n = 24

Slope = 0 units per year.

Mann-Kendall statistic = 40
critical = 105

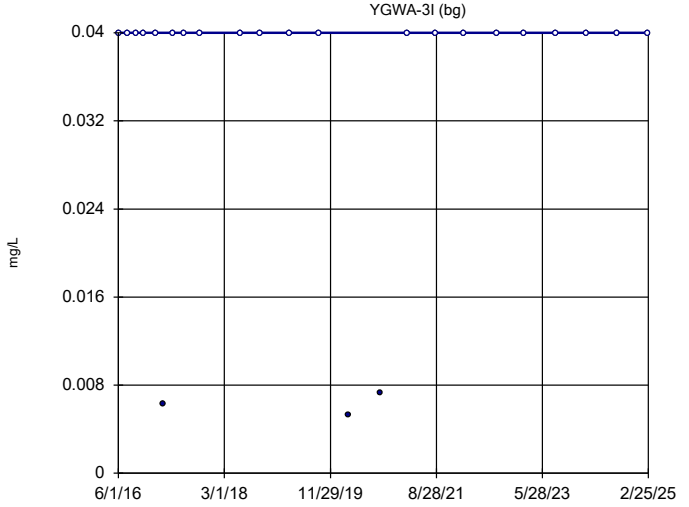
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 7/7/2025 2:52 PM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3I (bg)



n = 24

Slope = 0 units per year.

Mann-Kendall statistic = 6
critical = 105

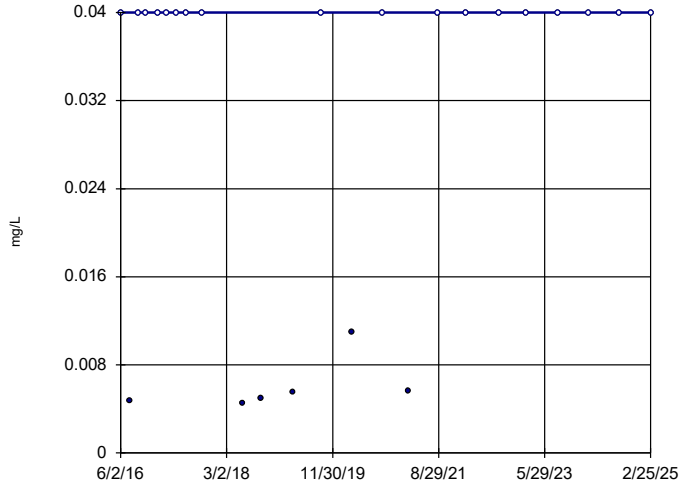
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 7/7/2025 2:52 PM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWA-4I (bg)



n = 24

Slope = 0 units per year.

Mann-Kendall statistic = 31
critical = 105

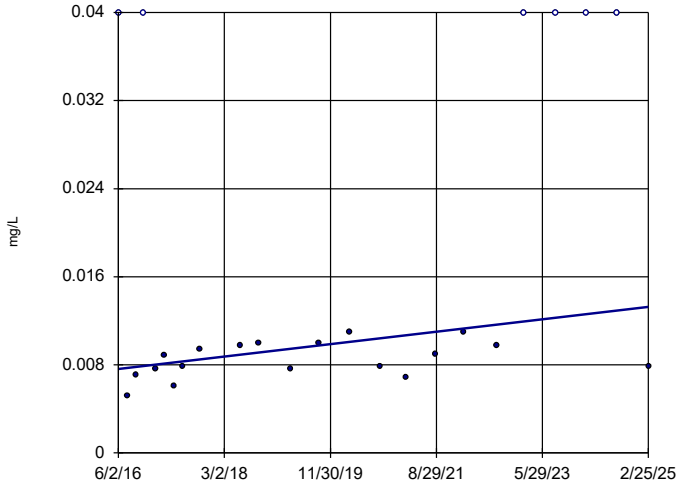
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 7/7/2025 2:52 PM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5D (bg)



n = 24

Slope = 0.0006459 units per year.

Mann-Kendall statistic = 88
critical = 105

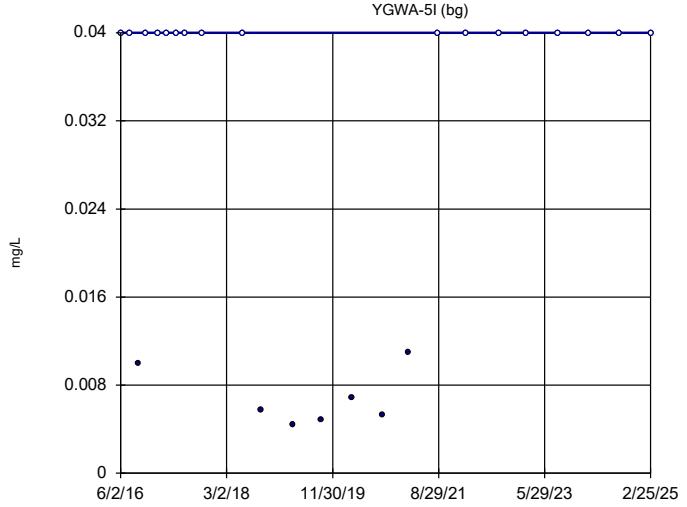
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 7/7/2025 2:52 PM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5I (bg)



n = 24

Slope = 0
units per year.

Mann-Kendall
statistic = 10
critical = 105

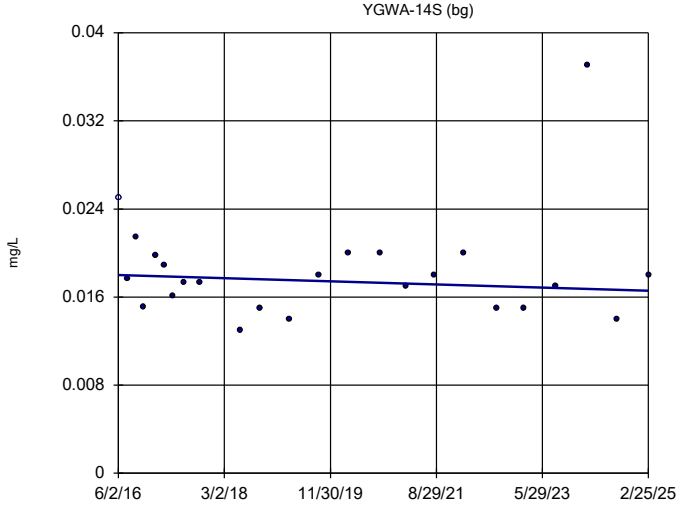
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Boron Analysis Run 7/7/2025 2:52 PM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-14S (bg)



n = 24

Slope = -0.0001609
units per year.

Mann-Kendall
statistic = -34
critical = -105

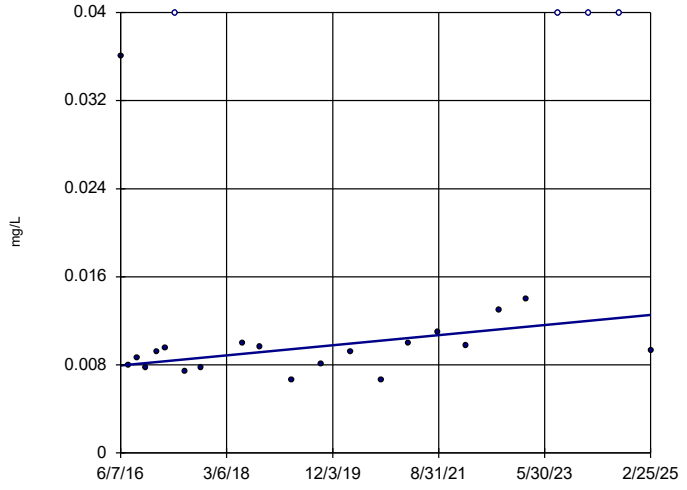
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Boron Analysis Run 7/7/2025 2:52 PM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-17S (bg)



n = 24

Slope = 0.0005253
units per year.

Mann-Kendall
statistic = 92
critical = 105

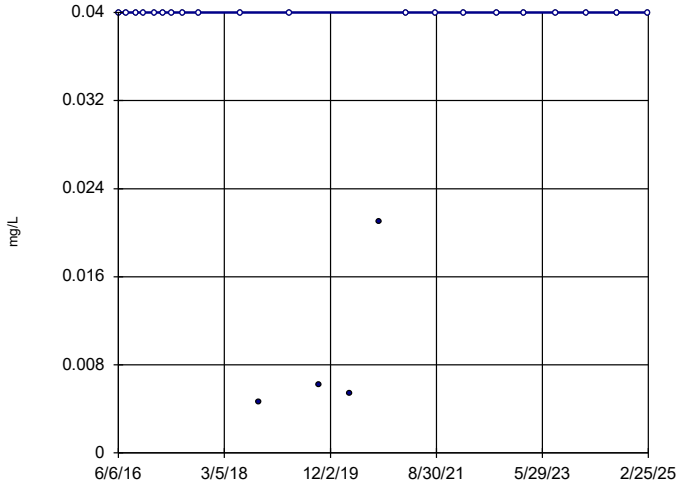
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Boron Analysis Run 7/7/2025 2:52 PM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18I (bg)



n = 24

Slope = 0
units per year.

Mann-Kendall
statistic = -2
critical = -105

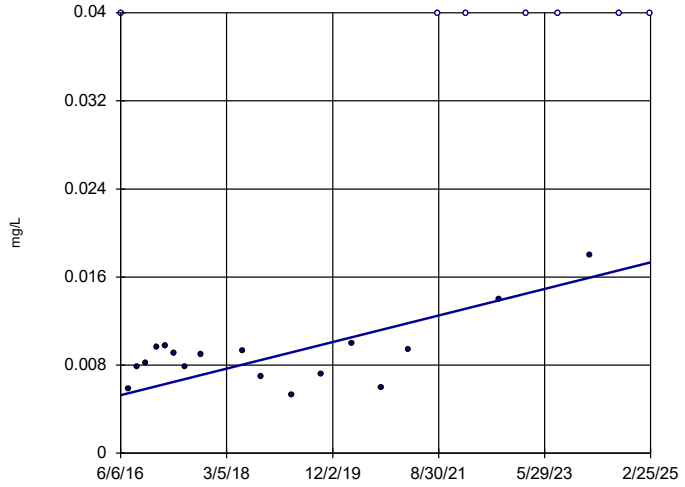
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Boron Analysis Run 7/7/2025 2:52 PM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18S (bg)



n = 24

Slope = 0.001383 units per year.

Mann-Kendall statistic = 106
critical = 105

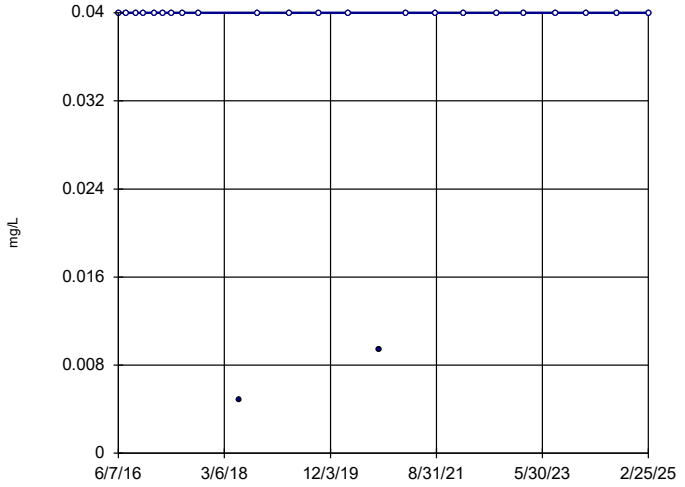
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 7/7/2025 2:52 PM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-20S (bg)



n = 24

Slope = 0 units per year.

Mann-Kendall statistic = 1
critical = 105

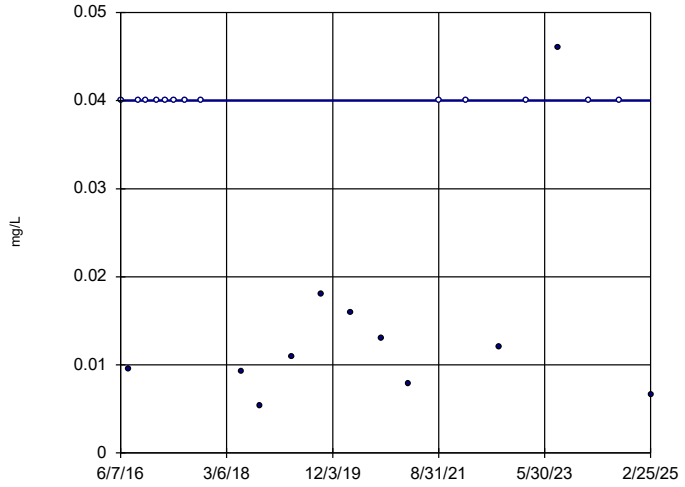
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 7/7/2025 2:52 PM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-21I (bg)



n = 24

Slope = 0 units per year.

Mann-Kendall statistic = -14
critical = -105

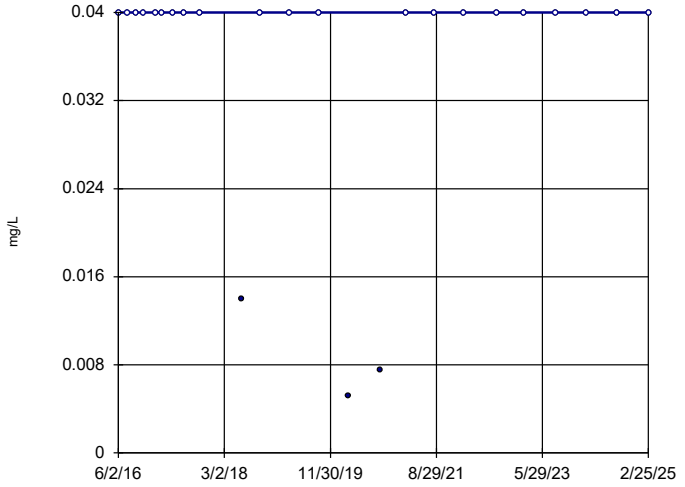
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 7/7/2025 2:52 PM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-30I (bg)



n = 24

Slope = 0 units per year.

Mann-Kendall statistic = -4
critical = -105

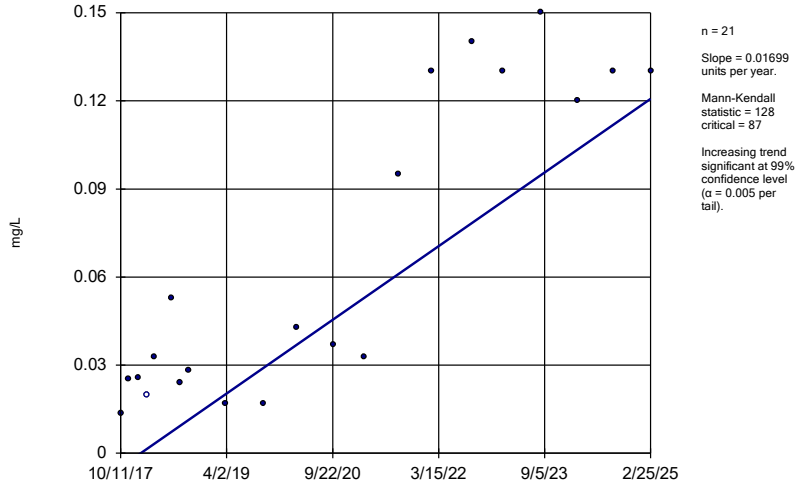
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 7/7/2025 2:52 PM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-39 (bg)



n = 21

Slope = 0.01699 units per year.

Mann-Kendall statistic = 128
critical = 87

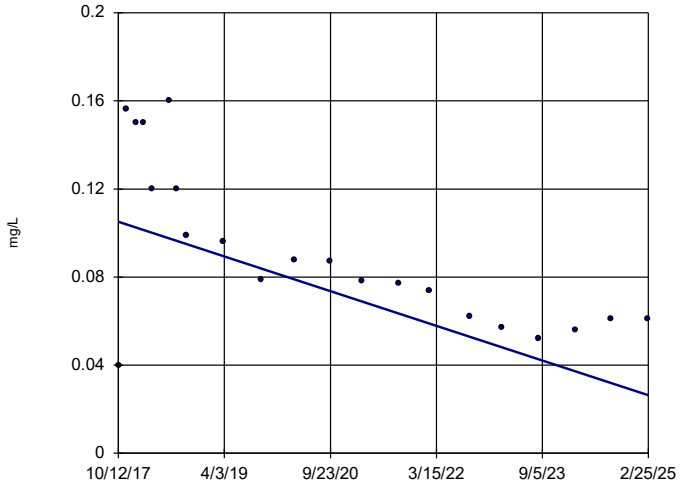
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 7/7/2025 2:52 PM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWA-40 (bg)



n = 21

Slope = -0.01069 units per year.

Mann-Kendall statistic = -141
critical = -87

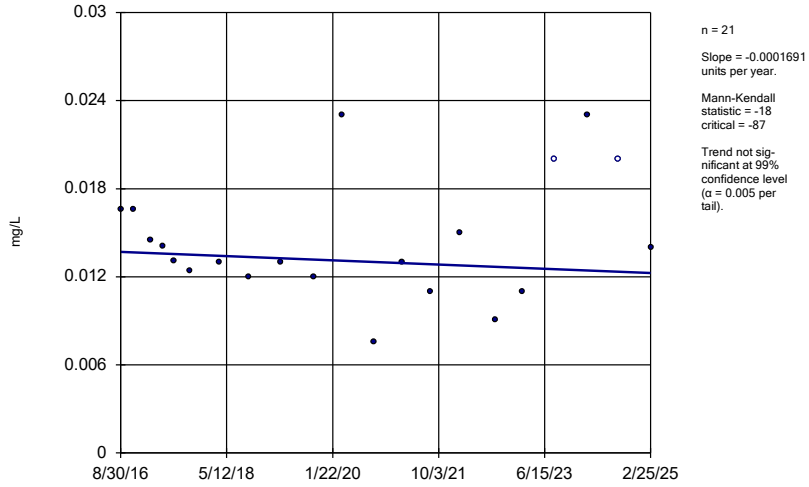
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 7/7/2025 2:52 PM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-47 (bg)



n = 21

Slope = -0.0001691 units per year.

Mann-Kendall statistic = -18
critical = -87

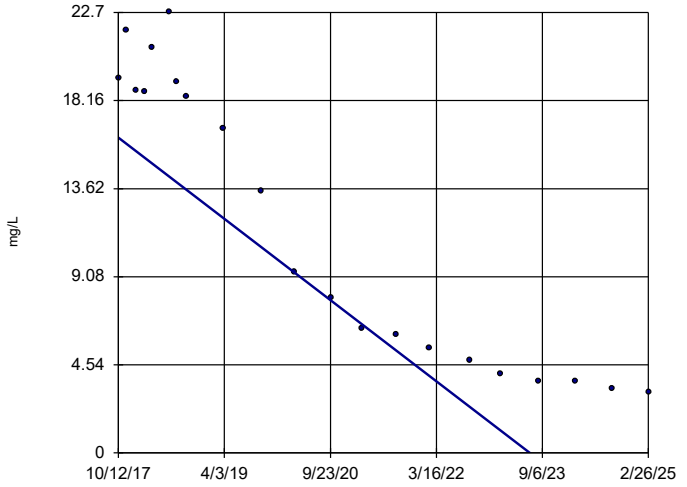
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 7/7/2025 2:52 PM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWC-38



n = 21

Slope = -2.835 units per year.

Mann-Kendall statistic = -187
critical = -87

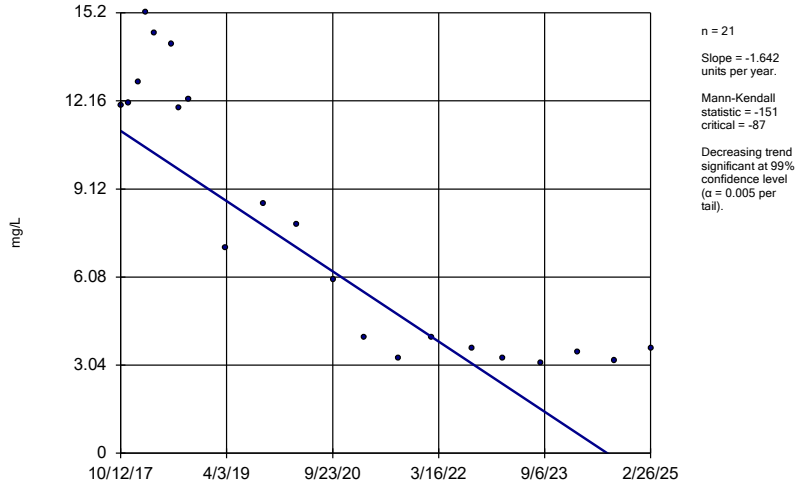
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 7/7/2025 2:52 PM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWC-41



n = 21

Slope = -1.642 units per year.

Mann-Kendall statistic = -151 critical = -87

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

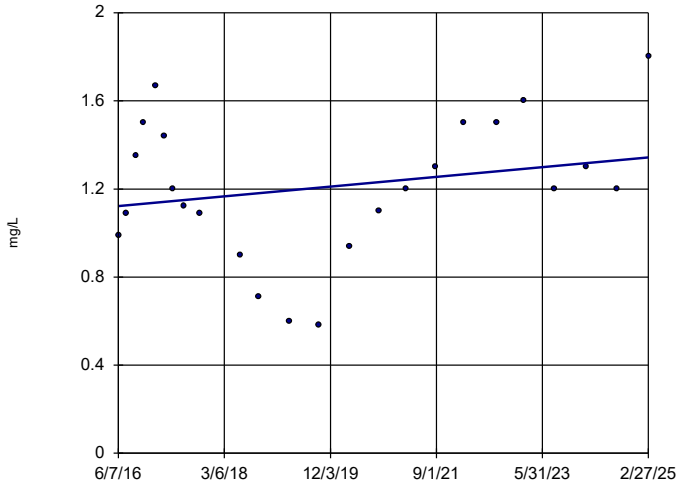
Constituent: Boron Analysis Run 7/7/2025 2:52 PM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWC-23S



n = 24

Slope = 0.02539 units per year.

Mann-Kendall statistic = 47 critical = 105

Trend not significant at 99% confidence level (α = 0.005 per tail).

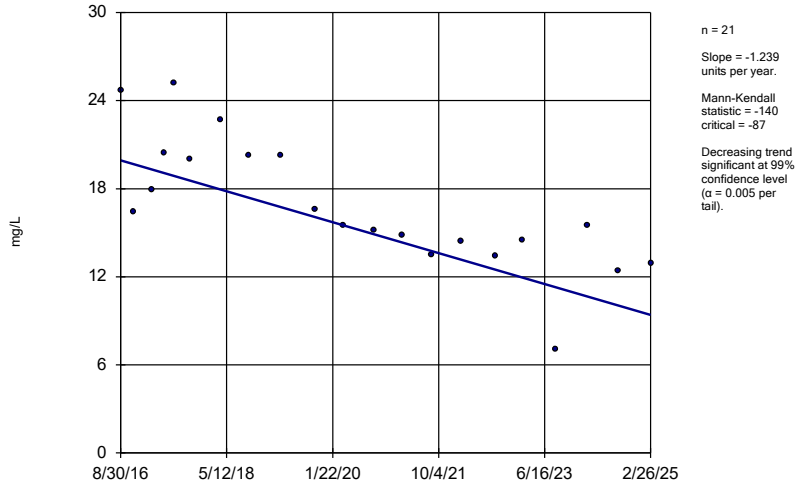
Constituent: Boron Analysis Run 7/7/2025 2:52 PM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWC-42



n = 21

Slope = -1.239 units per year.

Mann-Kendall statistic = -140 critical = -87

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

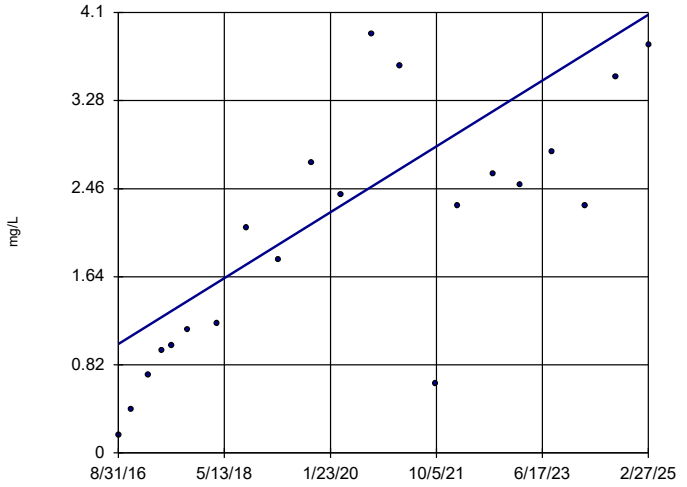
Constituent: Boron Analysis Run 7/7/2025 2:52 PM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWC-43



n = 21

Slope = 0.3609 units per year.

Mann-Kendall statistic = 135 critical = 87

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

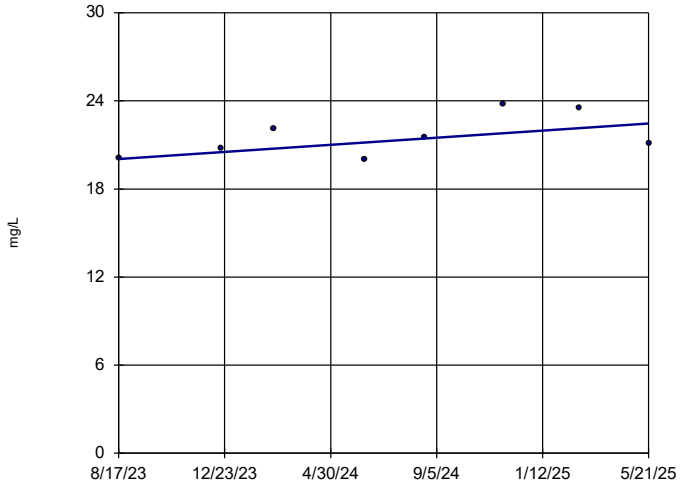
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Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWC-50



n = 8

Slope = 1.377 units per year.

Mann-Kendall statistic = 10
critical = 21

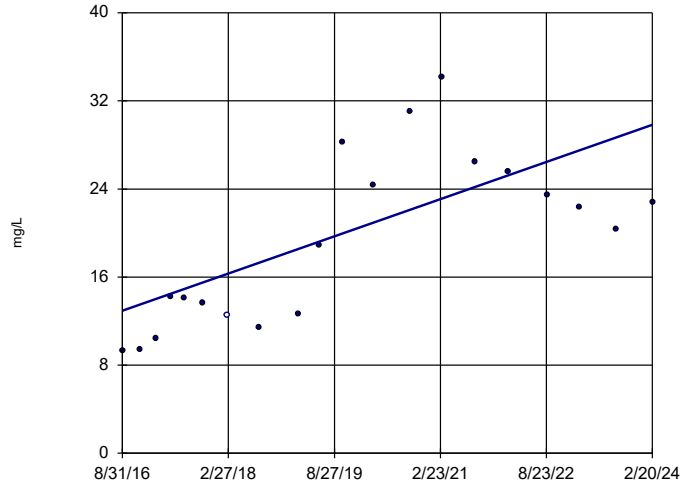
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 7/7/2025 2:52 PM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-2 (bg)



n = 20

Slope = 2.258 units per year.

Mann-Kendall statistic = 92
critical = 81

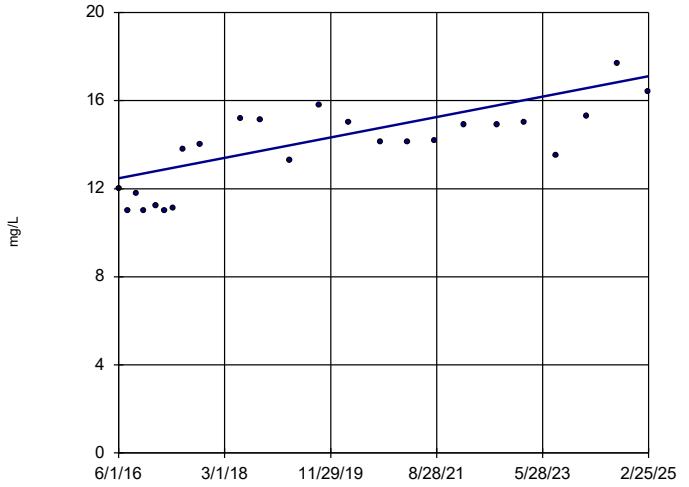
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 7/7/2025 2:52 PM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWA-1D (bg)



n = 24

Slope = 0.5297 units per year.

Mann-Kendall statistic = 156
critical = 105

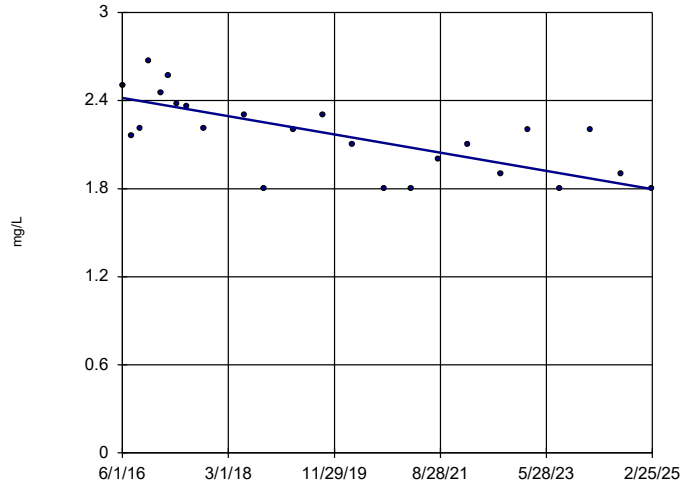
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 7/7/2025 2:52 PM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWA-1I (bg)



n = 24

Slope = -0.07121 units per year.

Mann-Kendall statistic = -145
critical = -105

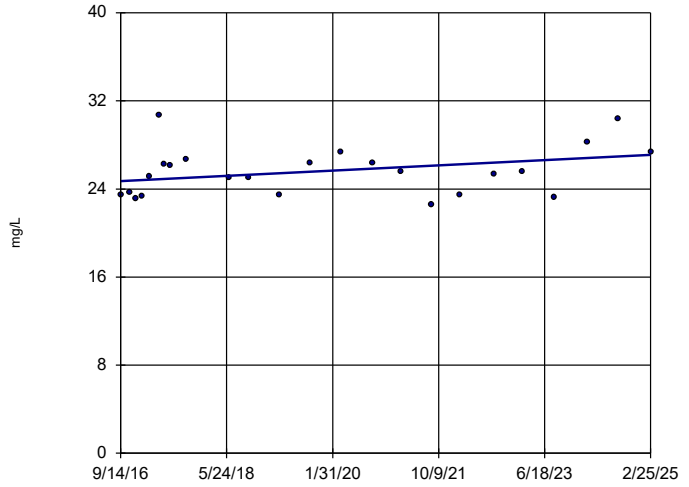
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 7/7/2025 2:52 PM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWA-2I (bg)



n = 24

Slope = 0.2799 units per year.

Mann-Kendall statistic = 55 critical = 105

Trend not significant at 99% confidence level (α = 0.005 per tail).

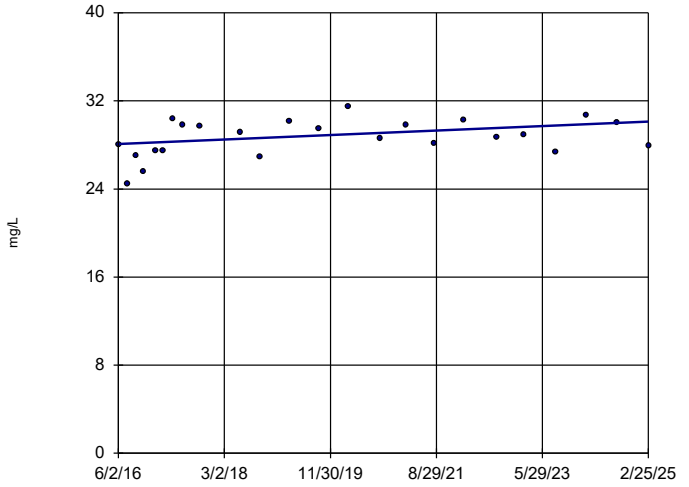
Constituent: Calcium Analysis Run 7/7/2025 2:52 PM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWA-3D (bg)



n = 24

Slope = 0.2329 units per year.

Mann-Kendall statistic = 70 critical = 105

Trend not significant at 99% confidence level (α = 0.005 per tail).

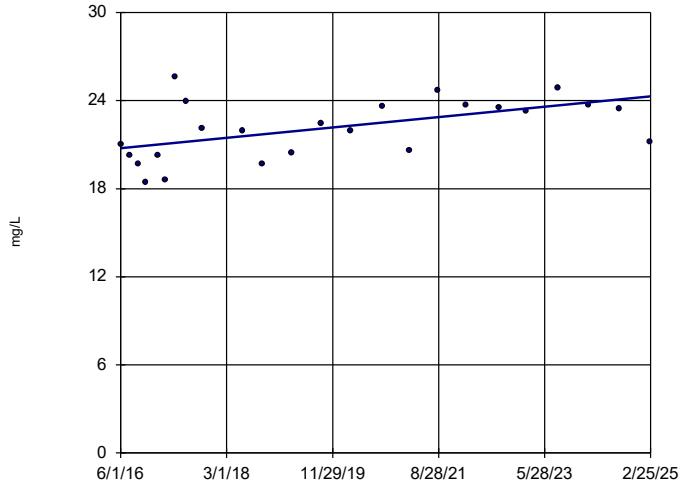
Constituent: Calcium Analysis Run 7/7/2025 2:52 PM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWA-3I (bg)



n = 24

Slope = 0.4036 units per year.

Mann-Kendall statistic = 98 critical = 105

Trend not significant at 99% confidence level (α = 0.005 per tail).

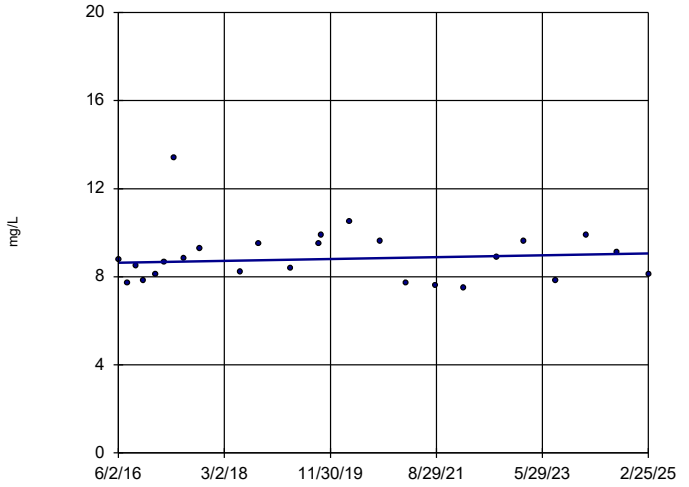
Constituent: Calcium Analysis Run 7/7/2025 2:52 PM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWA-4I (bg)



n = 25

Slope = 0.04754 units per year.

Mann-Kendall statistic = 29 critical = 111

Trend not significant at 99% confidence level (α = 0.005 per tail).

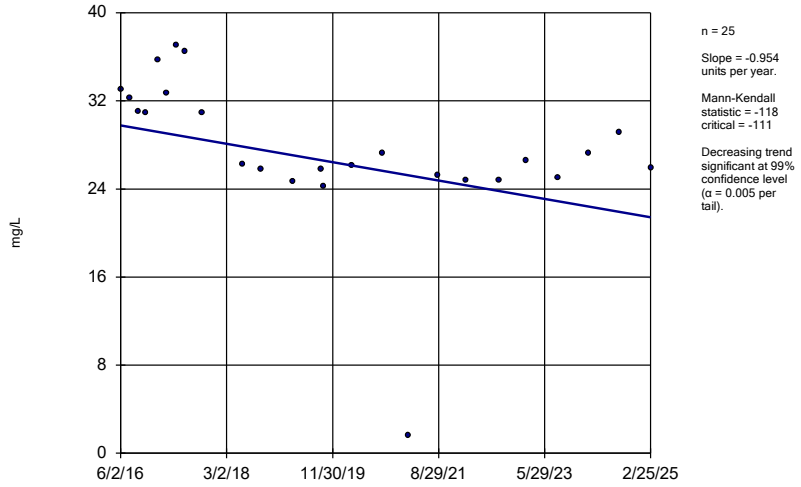
Constituent: Calcium Analysis Run 7/7/2025 2:52 PM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWA-5D (bg)



n = 25

Slope = -0.954 units per year.

Mann-Kendall statistic = -118
critical = -111

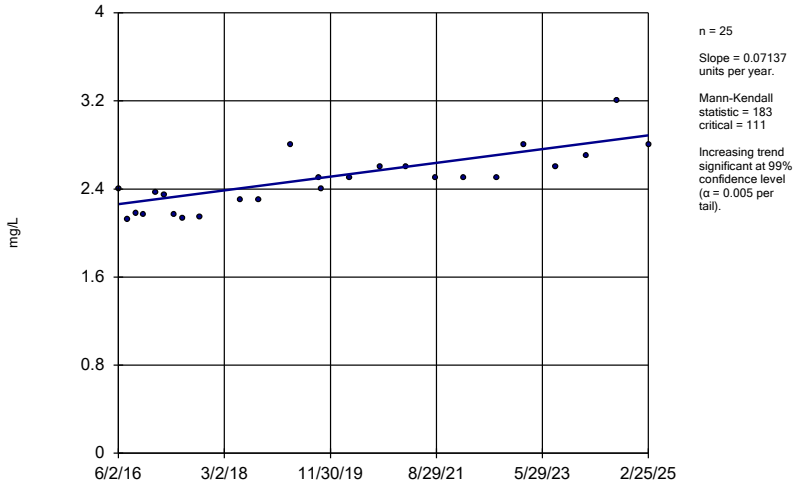
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 7/7/2025 2:52 PM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWA-5I (bg)



n = 25

Slope = 0.07137 units per year.

Mann-Kendall statistic = 183
critical = 111

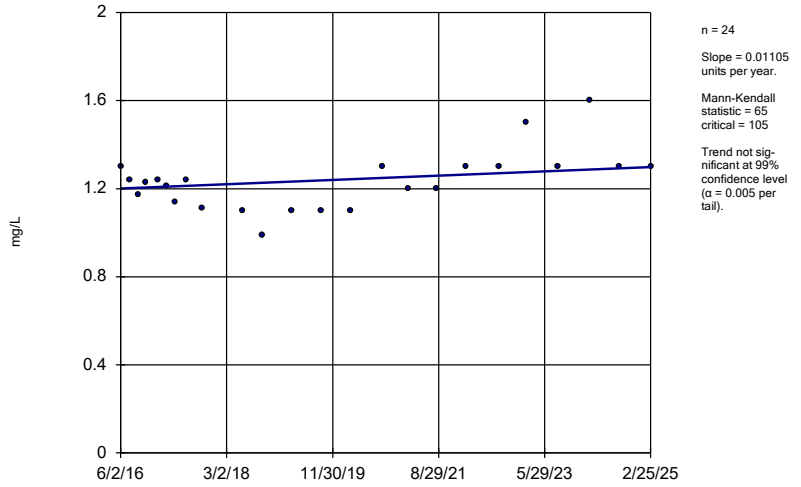
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 7/7/2025 2:52 PM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWA-14S (bg)



n = 24

Slope = 0.01105 units per year.

Mann-Kendall statistic = 65
critical = 105

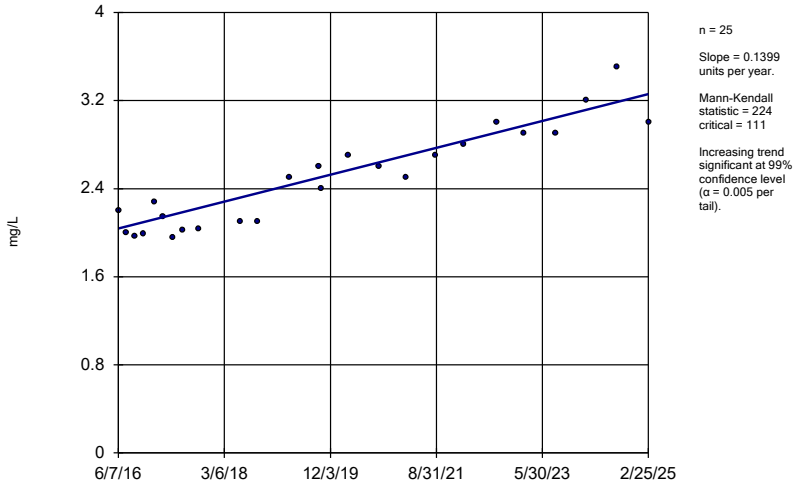
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 7/7/2025 2:52 PM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWA-17S (bg)



n = 25

Slope = 0.1399 units per year.

Mann-Kendall statistic = 224
critical = 111

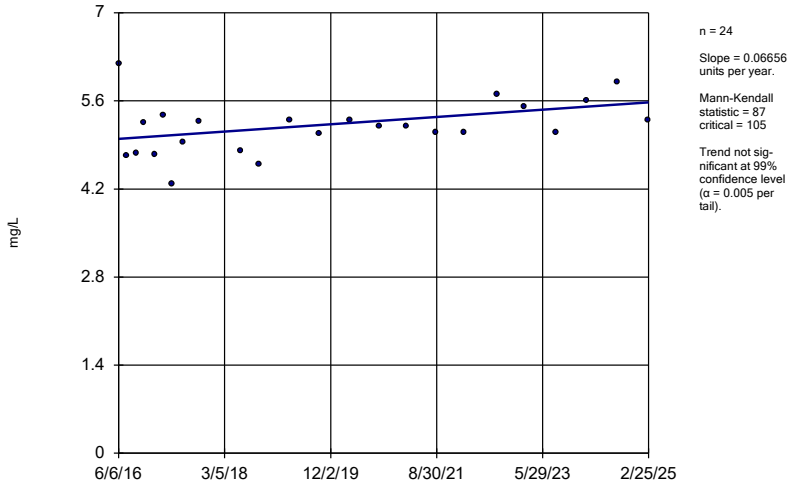
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 7/7/2025 2:52 PM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWA-18I (bg)



n = 24

Slope = 0.06656 units per year.

Mann-Kendall statistic = 87 critical = 105

Trend not significant at 99% confidence level (α = 0.005 per tail).

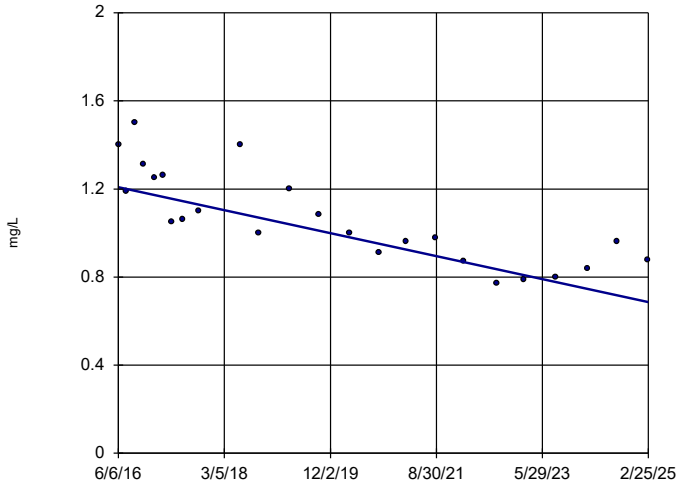
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Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWA-18S (bg)



n = 24

Slope = -0.05985 units per year.

Mann-Kendall statistic = -185 critical = -105

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

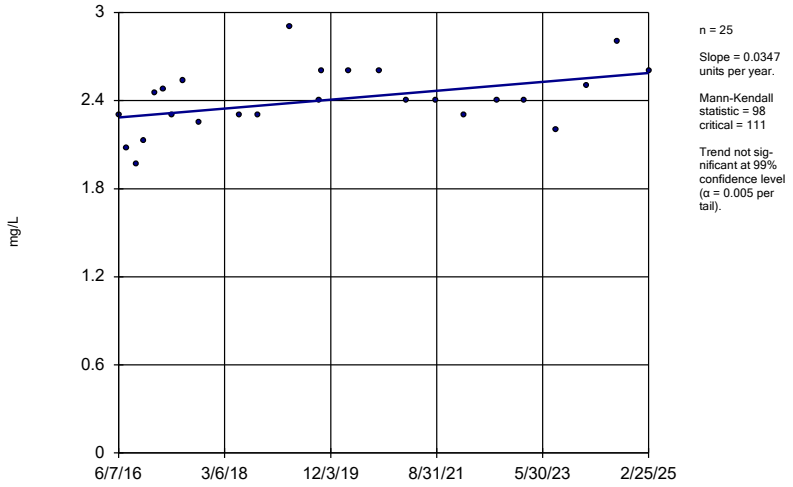
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Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWA-20S (bg)



n = 25

Slope = 0.0347 units per year.

Mann-Kendall statistic = 98 critical = 111

Trend not significant at 99% confidence level (α = 0.005 per tail).

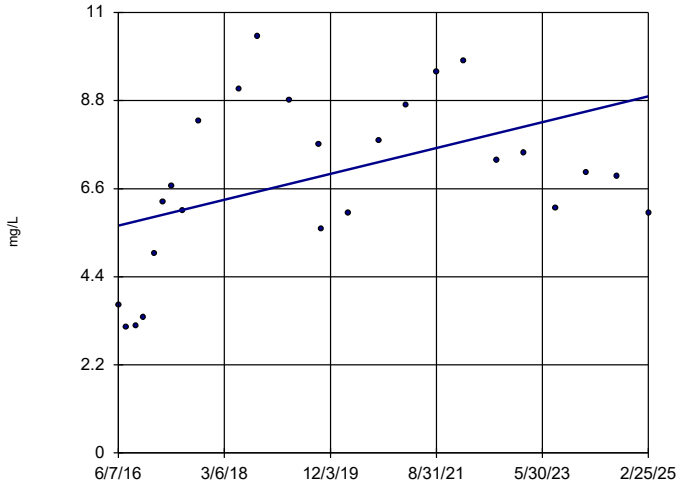
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Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWA-21I (bg)



n = 25

Slope = 0.3697 units per year.

Mann-Kendall statistic = 85 critical = 111

Trend not significant at 99% confidence level (α = 0.005 per tail).

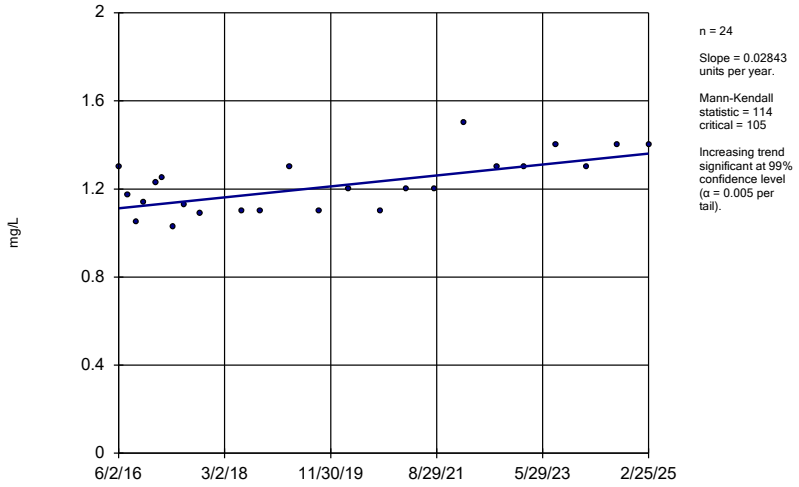
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Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWA-30I (bg)



n = 24

Slope = 0.02843 units per year.

Mann-Kendall statistic = 114 critical = 105

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

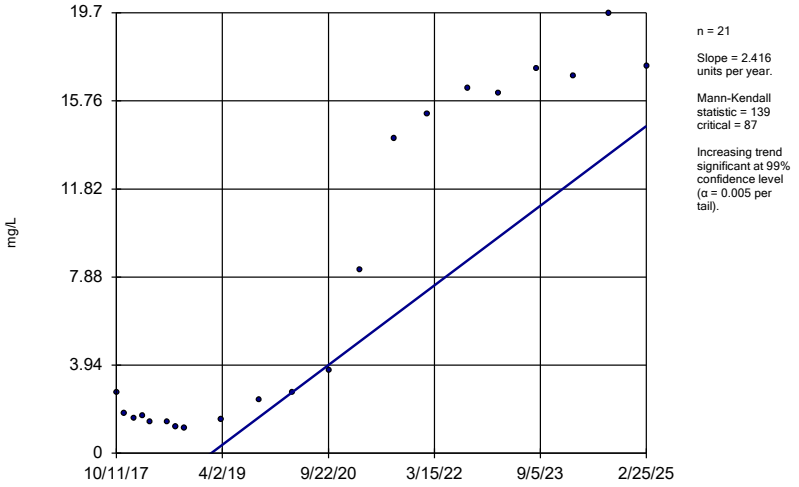
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Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWA-39 (bg)



n = 21

Slope = 2.416 units per year.

Mann-Kendall statistic = 139 critical = 87

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 7/7/2025 2:52 PM View: Appendix III Trend Tests

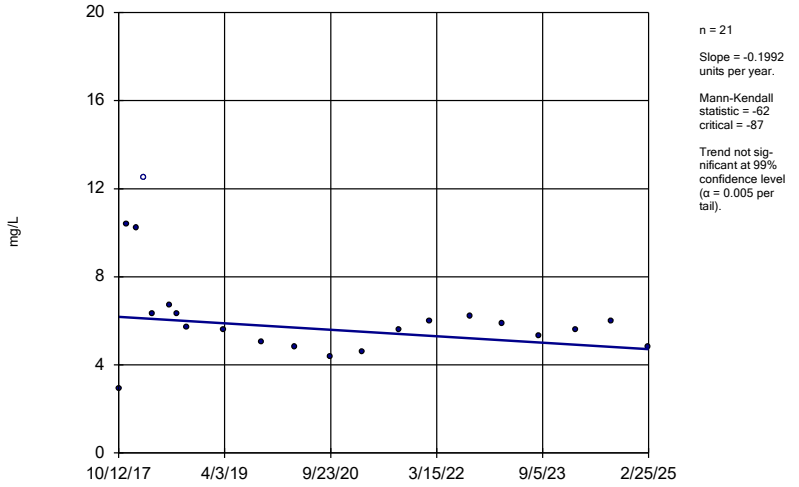
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-40 (bg)



n = 21

Slope = -0.1992 units per year.

Mann-Kendall statistic = -62 critical = -87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 7/7/2025 2:52 PM View: Appendix III Trend Tests

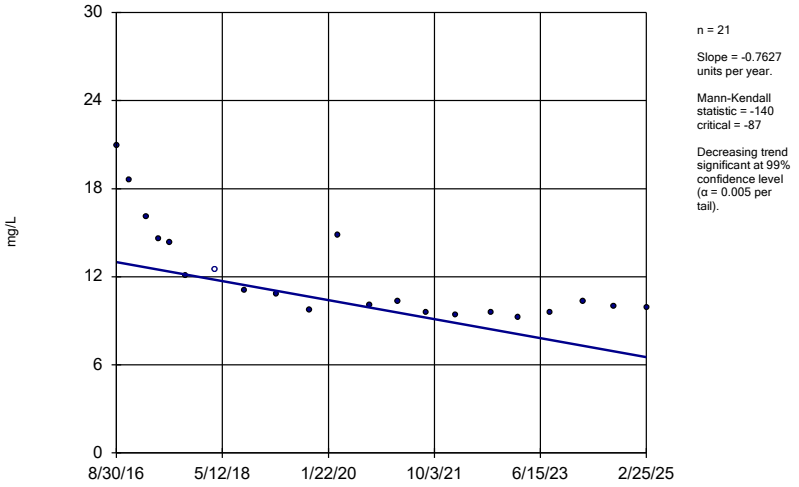
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-47 (bg)



n = 21

Slope = -0.7627 units per year.

Mann-Kendall statistic = -140 critical = -87

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

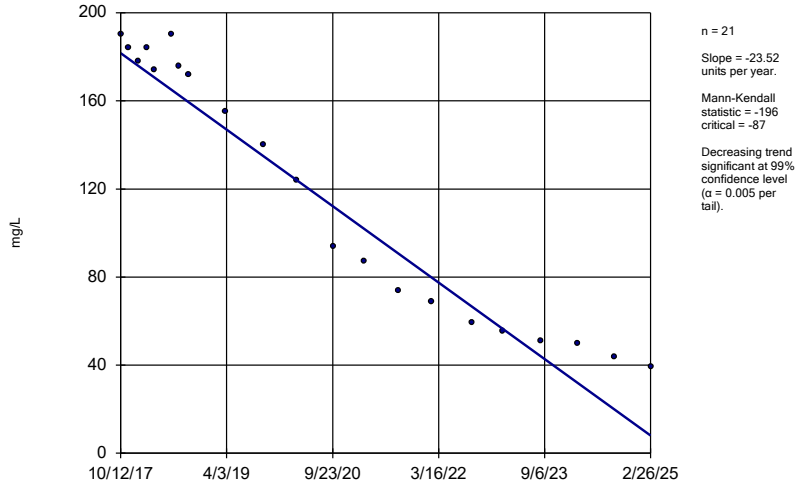
Constituent: Calcium Analysis Run 7/7/2025 2:52 PM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWC-38



n = 21

Slope = -23.52 units per year.

Mann-Kendall statistic = -196 critical = -87

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

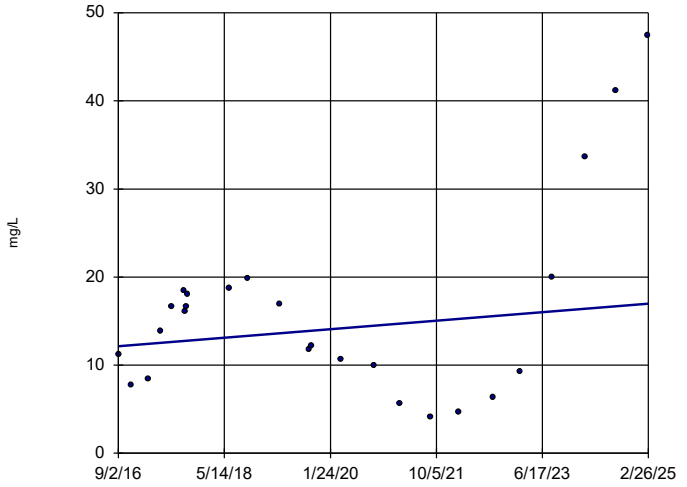
Constituent: Calcium Analysis Run 7/7/2025 2:52 PM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWC-36A



n = 25

Slope = 0.5688 units per year.

Mann-Kendall statistic = 33 critical = 111

Trend not significant at 99% confidence level (α = 0.005 per tail).

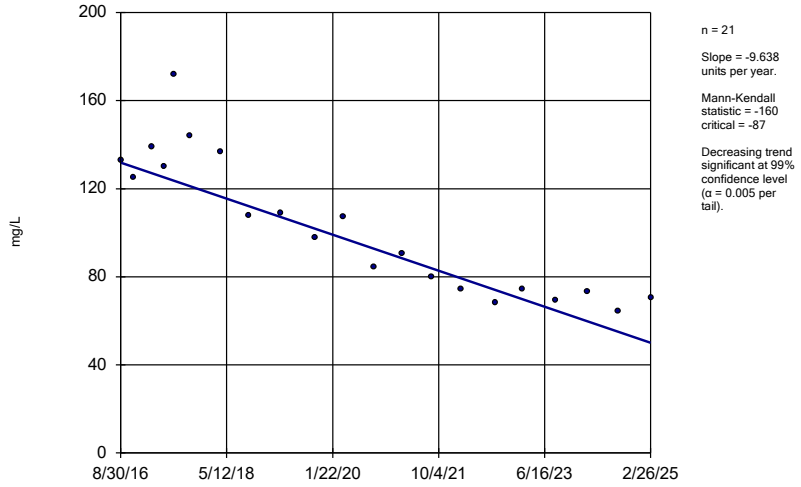
Constituent: Calcium Analysis Run 7/7/2025 2:52 PM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWC-42



n = 21

Slope = -9.638 units per year.

Mann-Kendall statistic = -160 critical = -87

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

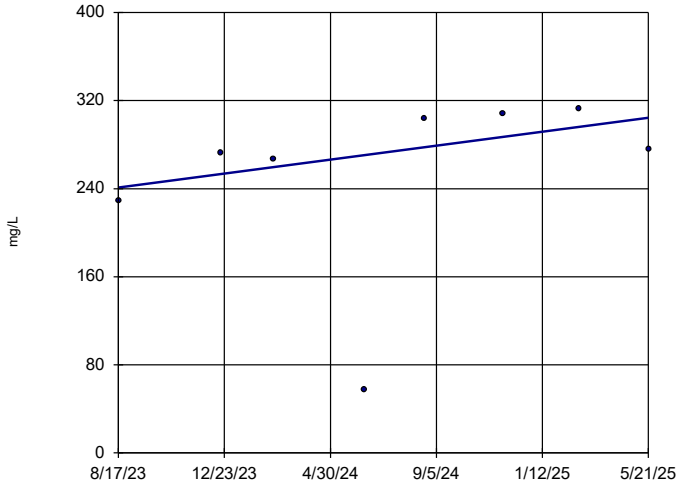
Constituent: Calcium Analysis Run 7/7/2025 2:52 PM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWC-50



n = 8

Slope = 36.03 units per year.

Mann-Kendall statistic = 14 critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

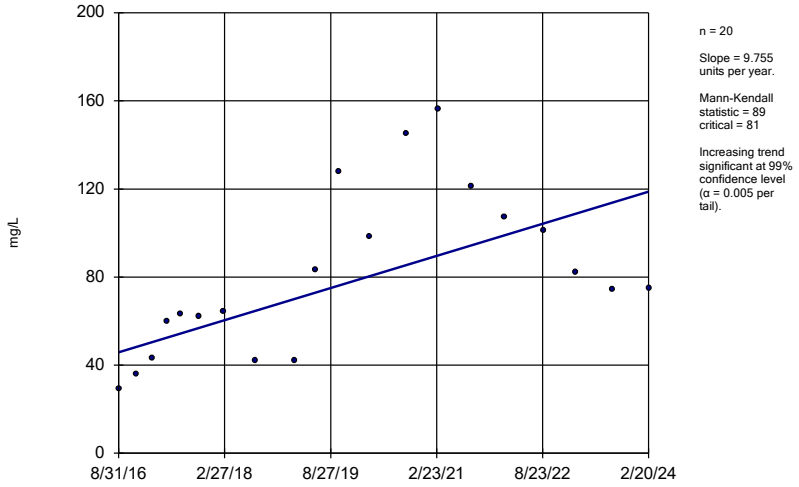
Constituent: Calcium Analysis Run 7/7/2025 2:52 PM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

GWA-2 (bg)



n = 20

Slope = 9.755 units per year.

Mann-Kendall statistic = 89 critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

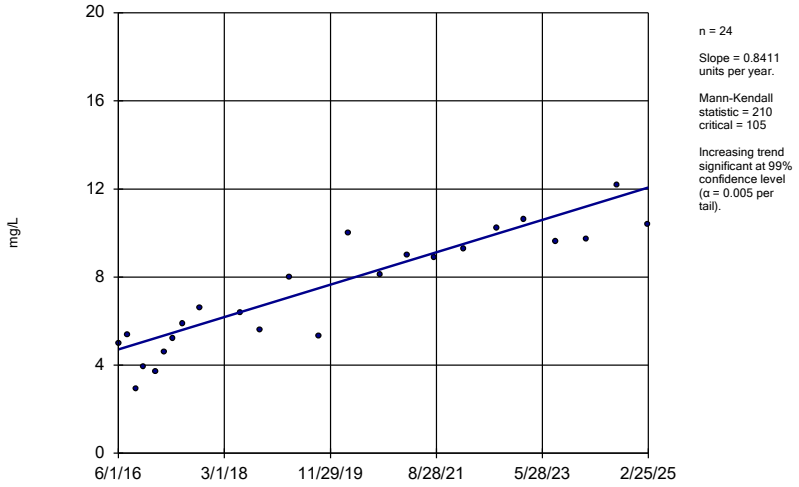
Constituent: Sulfate Analysis Run 7/7/2025 2:53 PM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWA-1D (bg)



n = 24

Slope = 0.8411 units per year.

Mann-Kendall statistic = 210 critical = 105

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

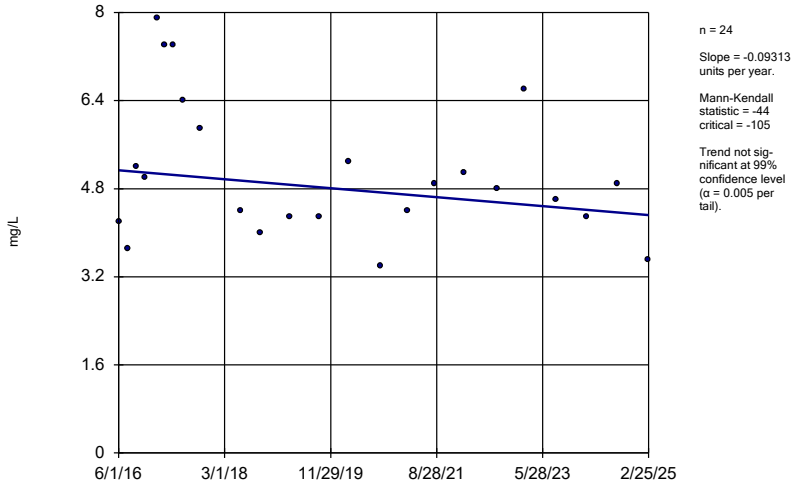
Constituent: Sulfate Analysis Run 7/7/2025 2:53 PM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWA-1I (bg)



n = 24

Slope = -0.09313 units per year.

Mann-Kendall statistic = -44 critical = -105

Trend not significant at 99% confidence level (α = 0.005 per tail).

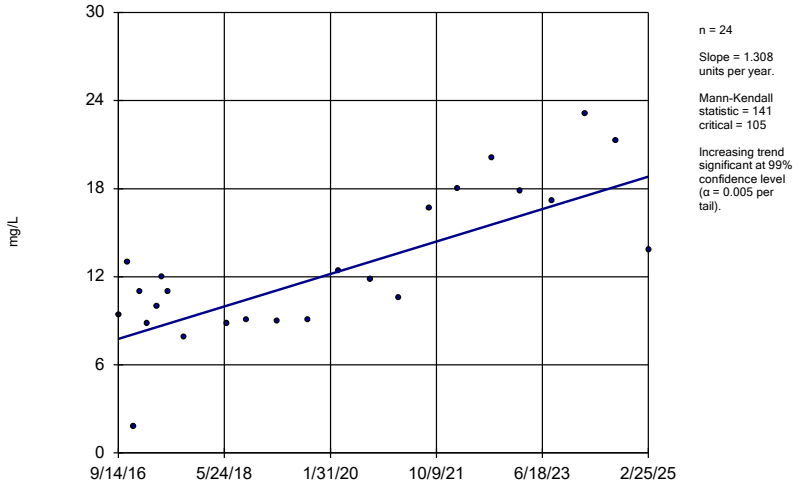
Constituent: Sulfate Analysis Run 7/7/2025 2:53 PM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWA-2I (bg)



n = 24

Slope = 1.308 units per year.

Mann-Kendall statistic = 141 critical = 105

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

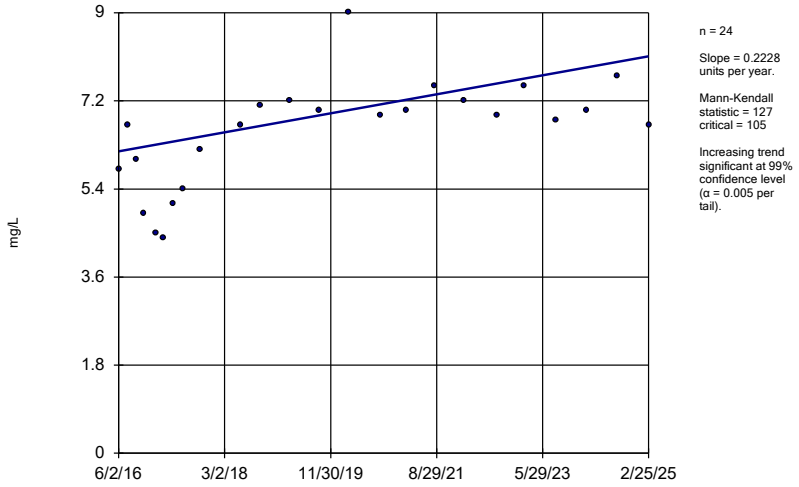
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Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWA-3D (bg)



n = 24

Slope = 0.2228 units per year.

Mann-Kendall statistic = 127 critical = 105

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

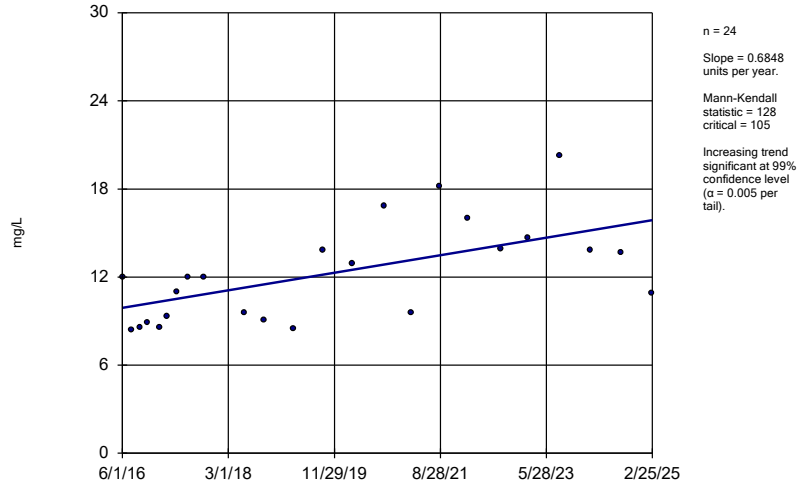
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Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWA-3I (bg)



n = 24

Slope = 0.6848 units per year.

Mann-Kendall statistic = 128 critical = 105

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

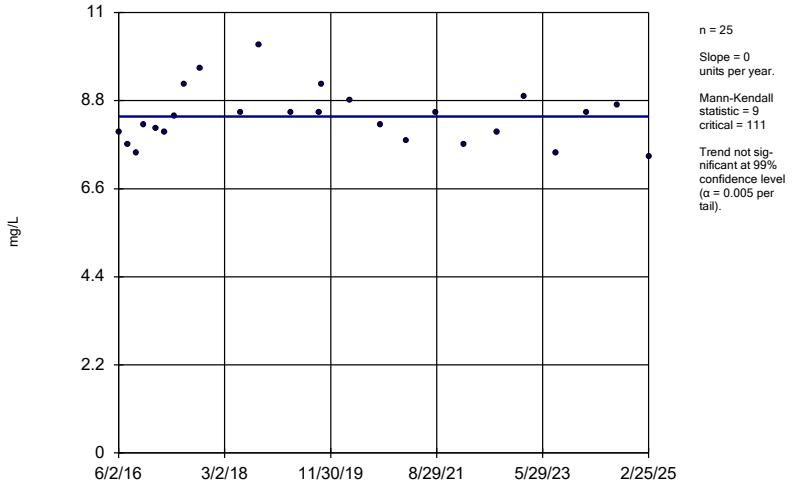
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Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWA-4I (bg)



n = 25

Slope = 0 units per year.

Mann-Kendall statistic = 9 critical = 111

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 7/7/2025 2:53 PM View: Appendix III Trend Tests

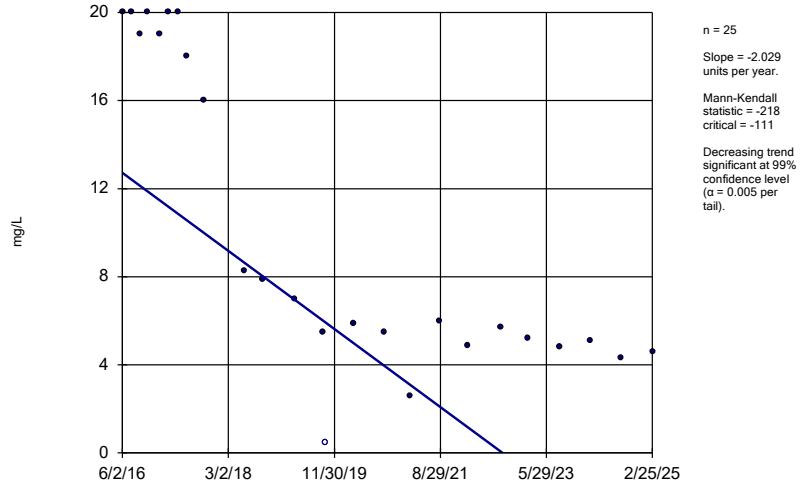
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5D (bg)



n = 25

Slope = -2.029 units per year.

Mann-Kendall statistic = -218 critical = -111

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

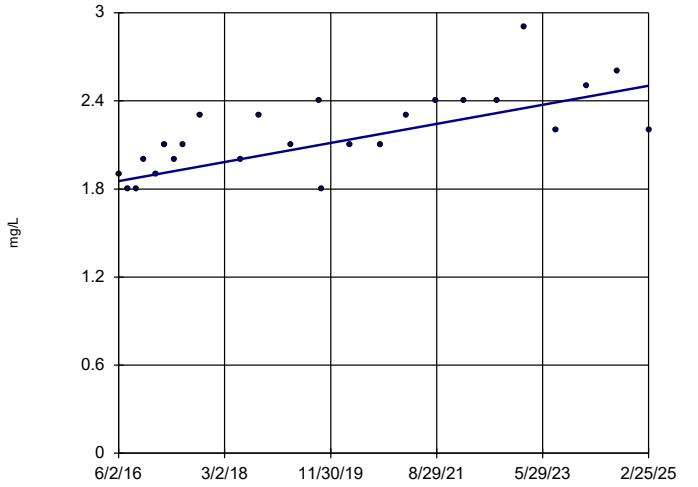
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Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWA-5I (bg)



n = 25

Slope = 0.07442 units per year.

Mann-Kendall statistic = 179 critical = 111

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

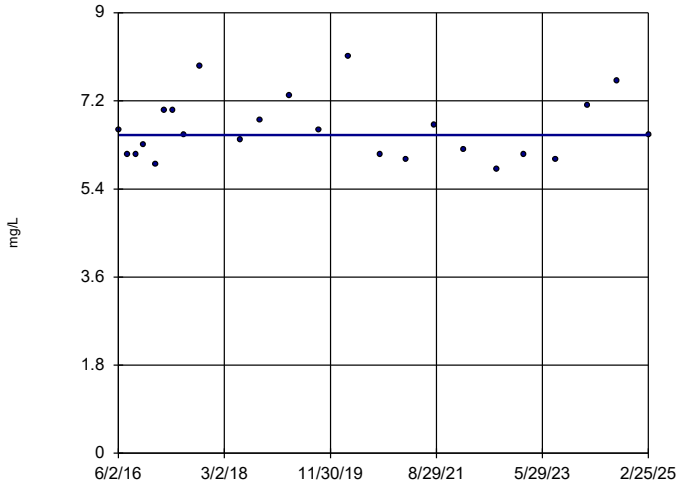
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Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWA-14S (bg)



n = 24

Slope = 0 units per year.

Mann-Kendall statistic = 4 critical = 105

Trend not significant at 99% confidence level (α = 0.005 per tail).

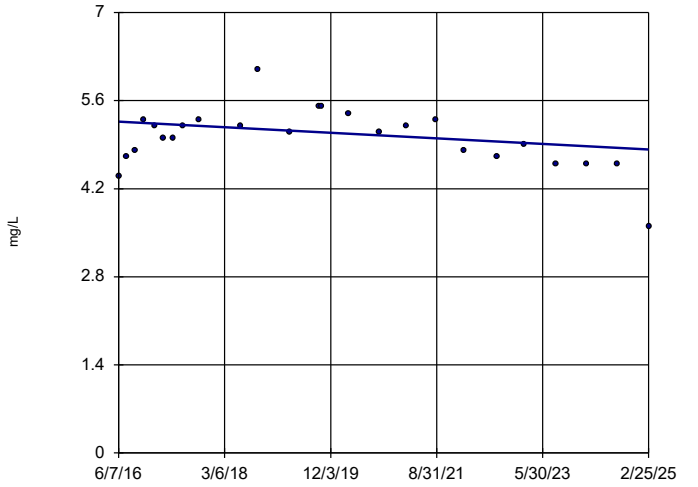
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Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWA-17S (bg)



n = 25

Slope = -0.05102 units per year.

Mann-Kendall statistic = -55 critical = -111

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 7/7/2025 2:53 PM View: Appendix III Trend Tests

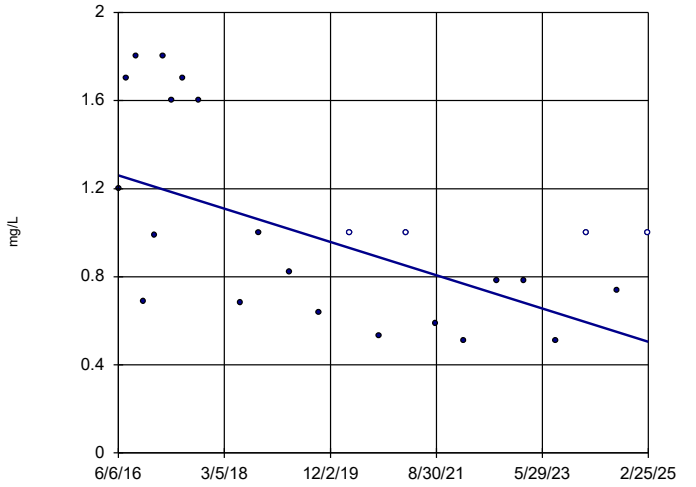
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18I (bg)



n = 24

Slope = -0.08662 units per year.

Mann-Kendall statistic = -107 critical = -105

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

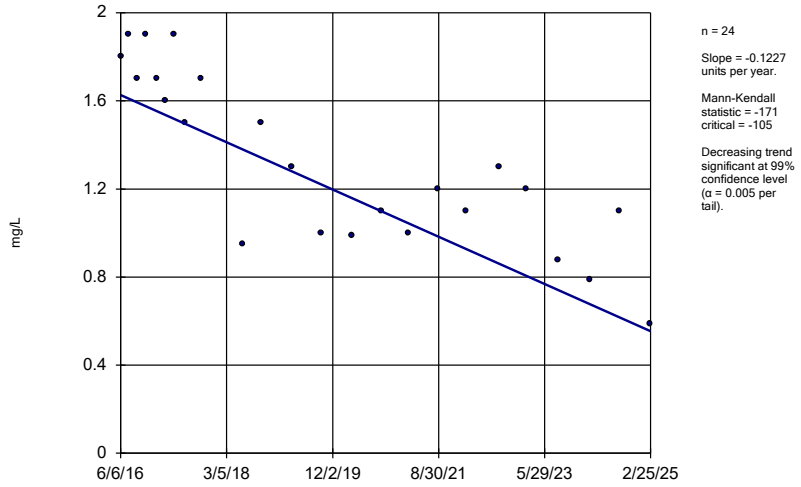
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Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWA-18S (bg)



n = 24

Slope = -0.1227 units per year.

Mann-Kendall statistic = -171
critical = -105

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

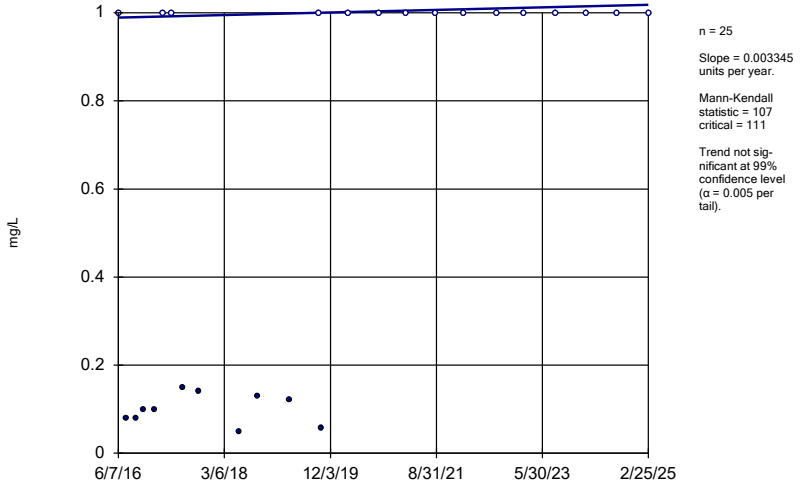
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Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-20S (bg)



n = 25

Slope = 0.003345 units per year.

Mann-Kendall statistic = 107
critical = 111

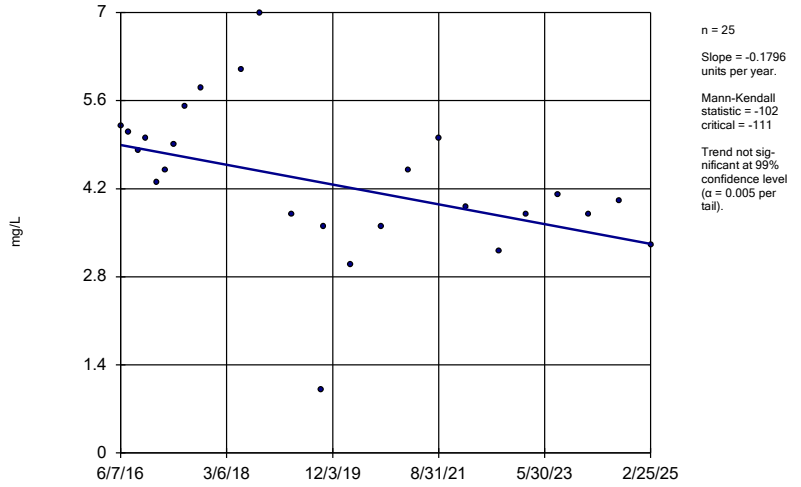
Trend not significant at 99% confidence level (α = 0.005 per tail).

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Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWA-21I (bg)



n = 25

Slope = -0.1796 units per year.

Mann-Kendall statistic = -102
critical = -111

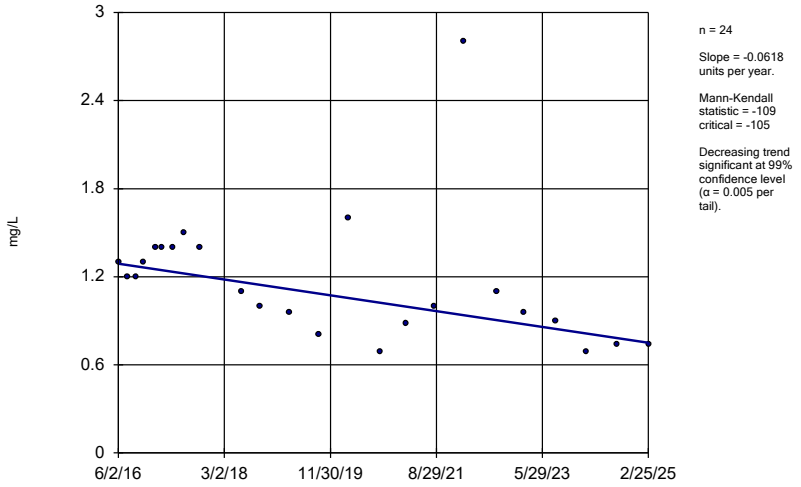
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 7/7/2025 2:53 PM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWA-30I (bg)



n = 24

Slope = -0.0618 units per year.

Mann-Kendall statistic = -109
critical = -105

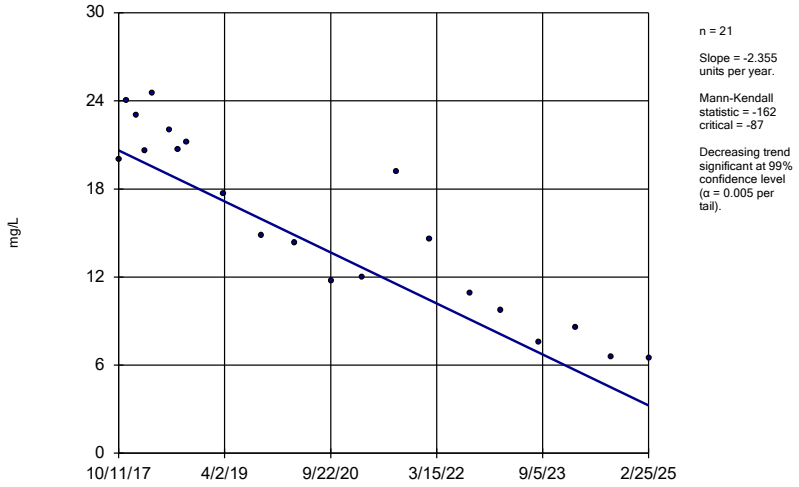
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 7/7/2025 2:53 PM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWA-39 (bg)



n = 21

Slope = -2.355 units per year.

Mann-Kendall statistic = -162 critical = -87

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

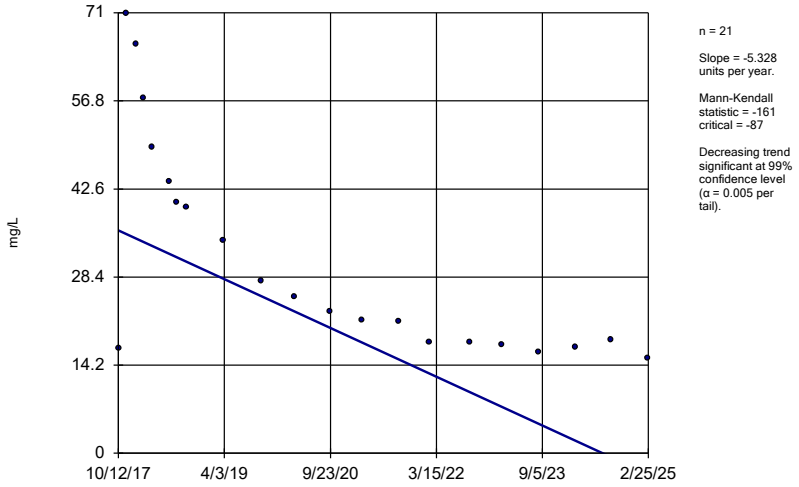
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Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWA-40 (bg)



n = 21

Slope = -5.328 units per year.

Mann-Kendall statistic = -161 critical = -87

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

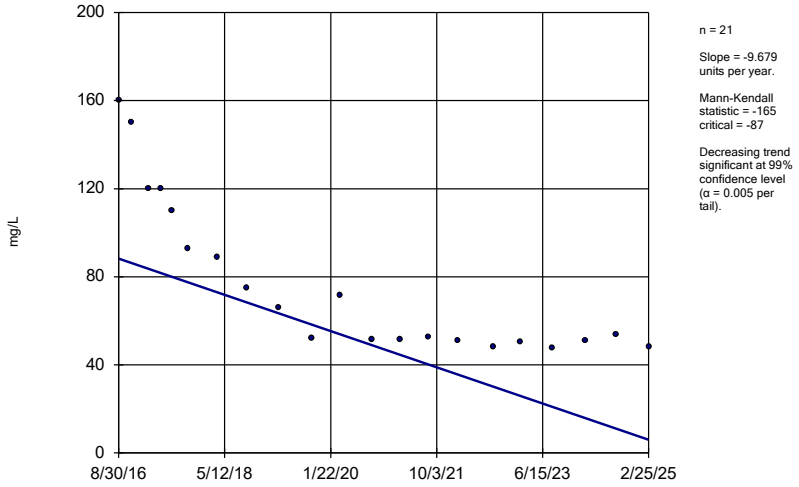
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Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWA-47 (bg)



n = 21

Slope = -9.679 units per year.

Mann-Kendall statistic = -165 critical = -87

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

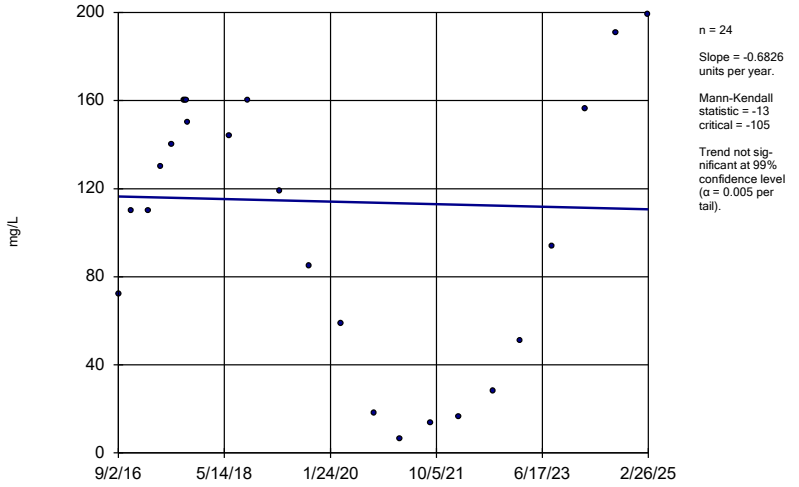
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Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWC-36A



n = 24

Slope = -0.6826 units per year.

Mann-Kendall statistic = -13 critical = -105

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

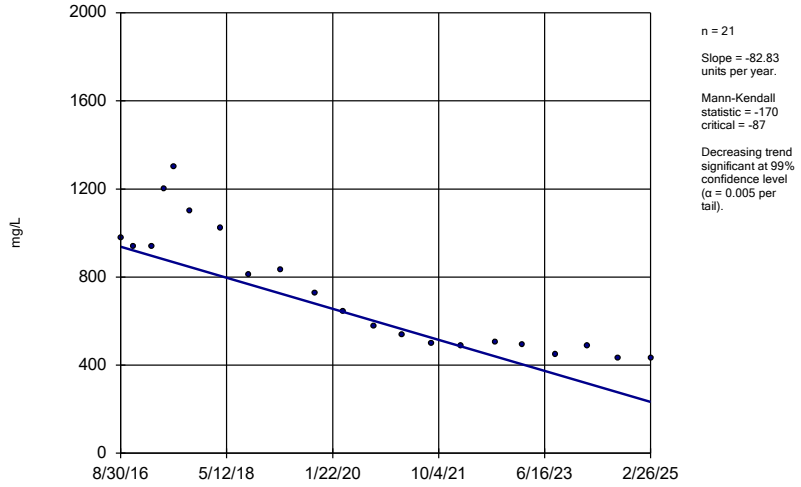
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Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWC-42



n = 21

Slope = -82.83 units per year.

Mann-Kendall statistic = -170 critical = -87

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

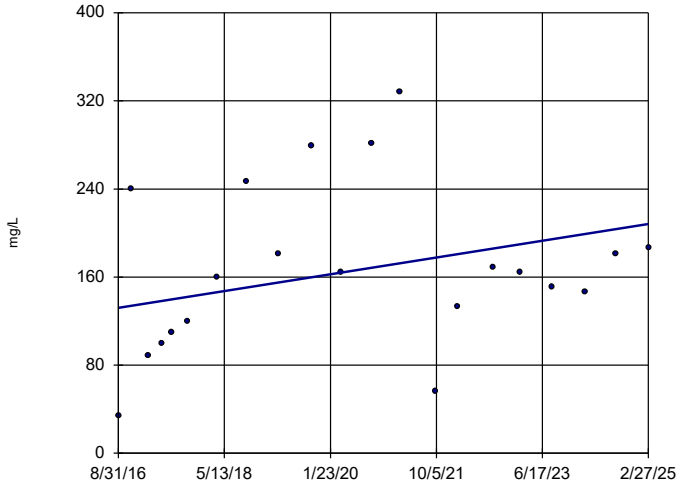
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Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWC-43



n = 21

Slope = 8.979 units per year.

Mann-Kendall statistic = 58 critical = 87

Trend not significant at 99% confidence level (α = 0.005 per tail).

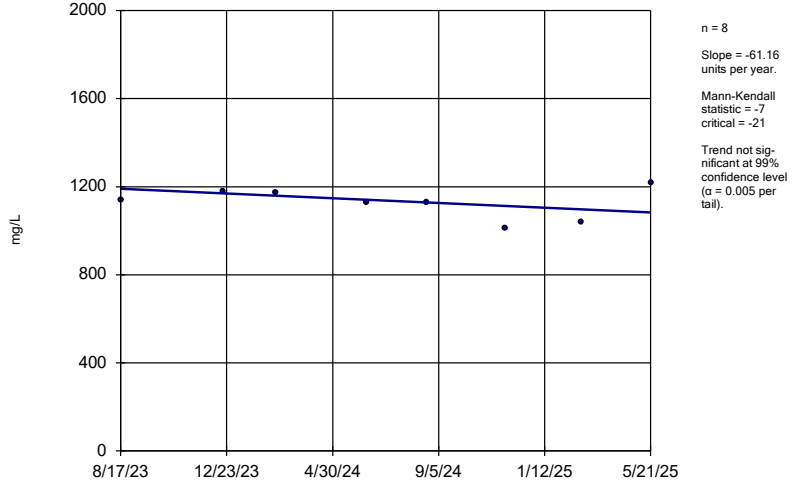
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Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWC-50



n = 8

Slope = -61.16 units per year.

Mann-Kendall statistic = -7 critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

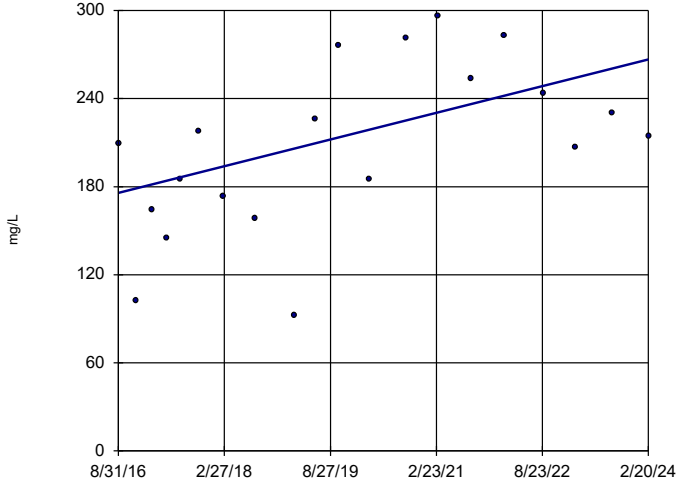
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Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

GWA-2 (bg)



n = 20

Slope = 12.15 units per year.

Mann-Kendall statistic = 73 critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

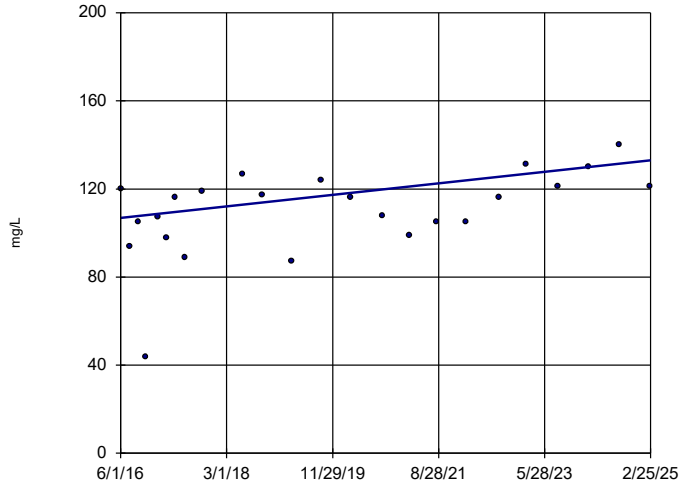
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Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWA-1D (bg)



n = 24

Slope = 2.993 units per year.

Mann-Kendall statistic = 99 critical = 105

Trend not significant at 99% confidence level (α = 0.005 per tail).

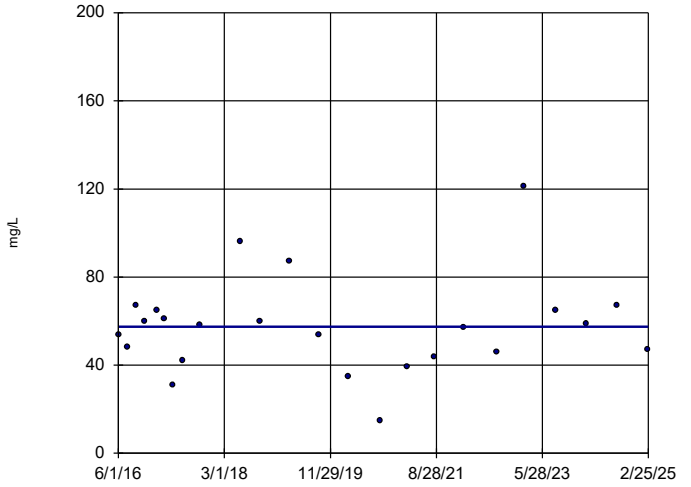
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Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWA-1I (bg)



n = 24

Slope = 0 units per year.

Mann-Kendall statistic = 2 critical = 105

Trend not significant at 99% confidence level (α = 0.005 per tail).

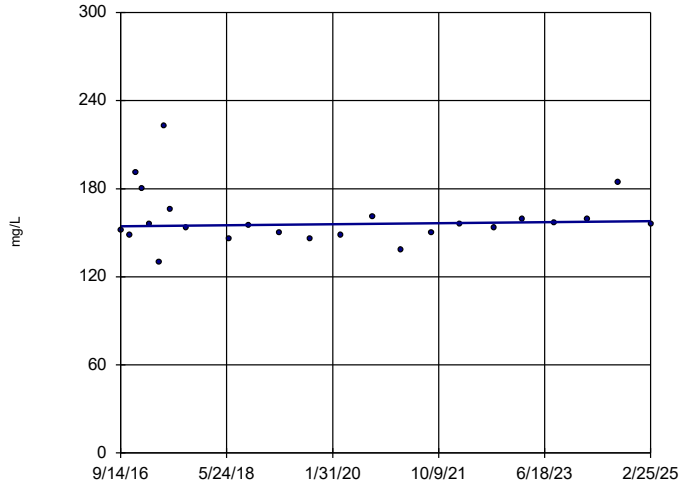
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Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWA-2I (bg)



n = 24

Slope = 0.4129 units per year.

Mann-Kendall statistic = 20 critical = 105

Trend not significant at 99% confidence level (α = 0.005 per tail).

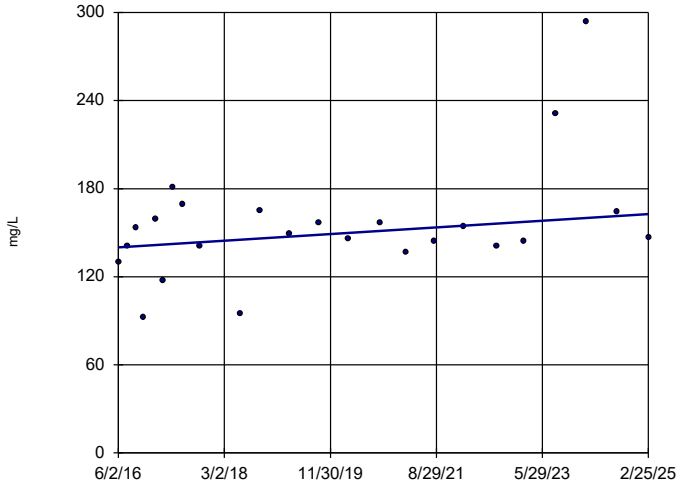
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Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWA-3D (bg)



n = 24

Slope = 2.591 units per year.

Mann-Kendall statistic = 59 critical = 105

Trend not significant at 99% confidence level (α = 0.005 per tail).

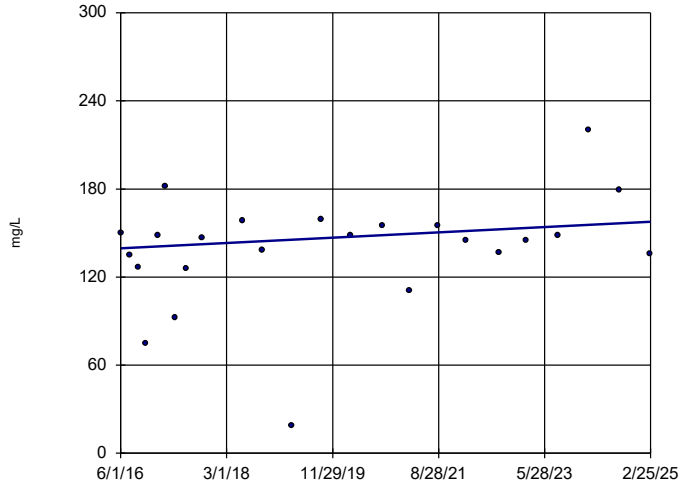
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Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWA-3I (bg)



n = 24

Slope = 2.067 units per year.

Mann-Kendall statistic = 45 critical = 105

Trend not significant at 99% confidence level (α = 0.005 per tail).

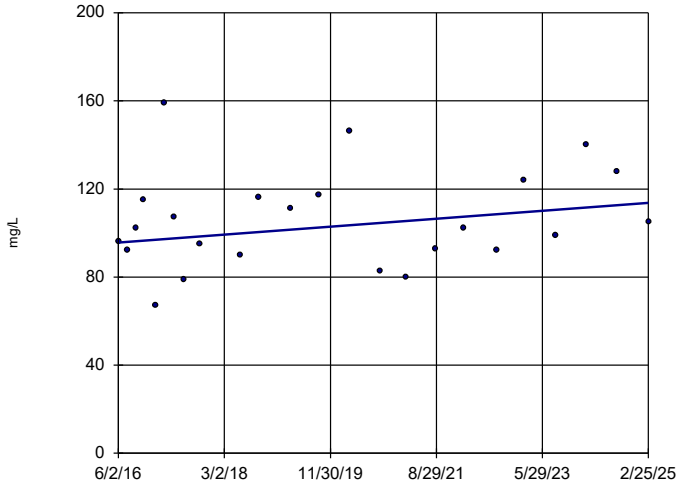
Constituent: TDS Analysis Run 7/7/2025 2:53 PM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWA-4I (bg)



n = 24

Slope = 2.052 units per year.

Mann-Kendall statistic = 50 critical = 105

Trend not significant at 99% confidence level (α = 0.005 per tail).

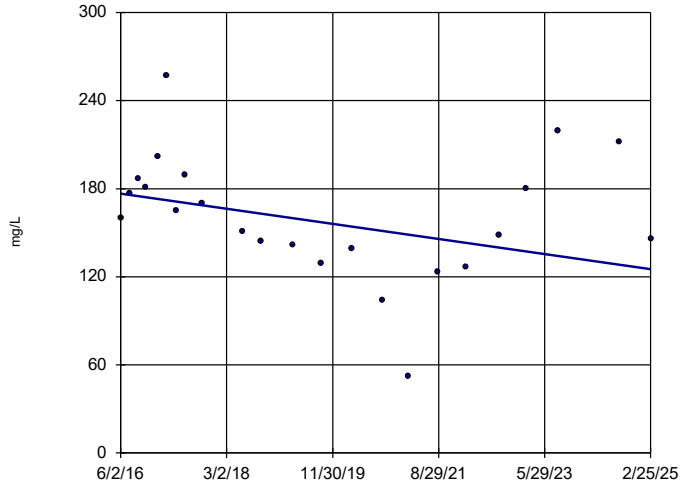
Constituent: TDS Analysis Run 7/7/2025 2:53 PM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWA-5D (bg)



n = 23

Slope = -5.897 units per year.

Mann-Kendall statistic = -61 critical = -98

Trend not significant at 99% confidence level (α = 0.005 per tail).

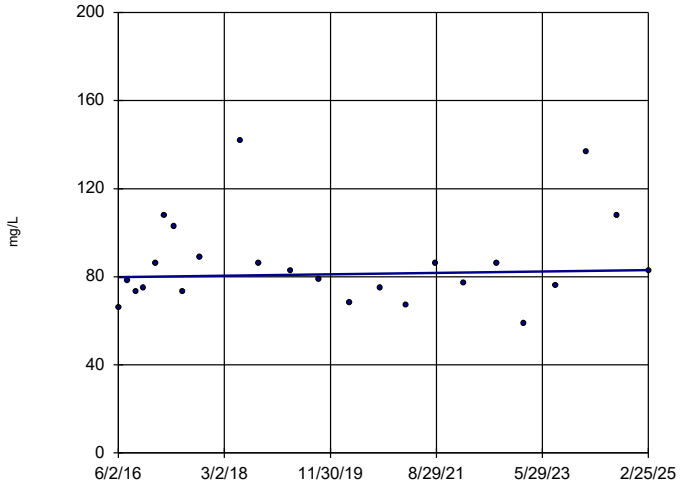
Constituent: TDS Analysis Run 7/7/2025 2:53 PM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWA-5I (bg)



n = 24

Slope = 0.3624 units per year.

Mann-Kendall statistic = 18 critical = 105

Trend not significant at 99% confidence level (α = 0.005 per tail).

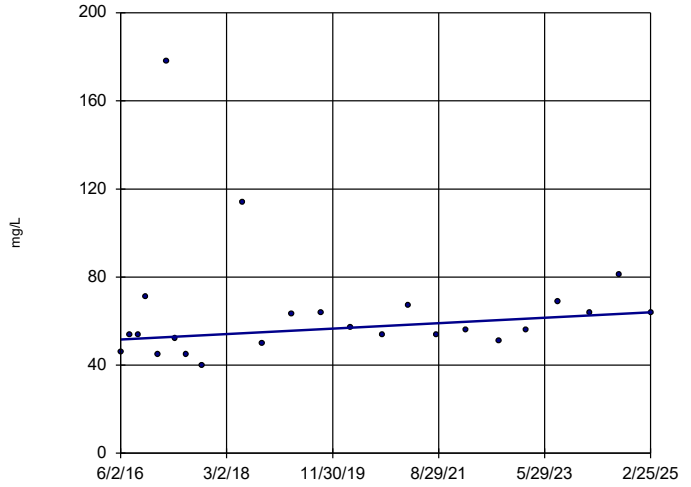
Constituent: TDS Analysis Run 7/7/2025 2:53 PM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWA-14S (bg)



n = 24

Slope = 1.401 units per year.

Mann-Kendall statistic = 67 critical = 105

Trend not significant at 99% confidence level (α = 0.005 per tail).

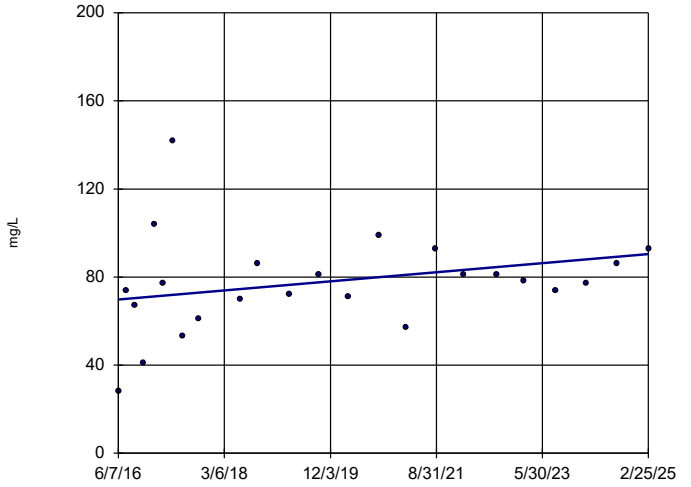
Constituent: TDS Analysis Run 7/7/2025 2:53 PM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWA-17S (bg)



n = 24

Slope = 2.373 units per year.

Mann-Kendall statistic = 77 critical = 105

Trend not significant at 99% confidence level (α = 0.005 per tail).

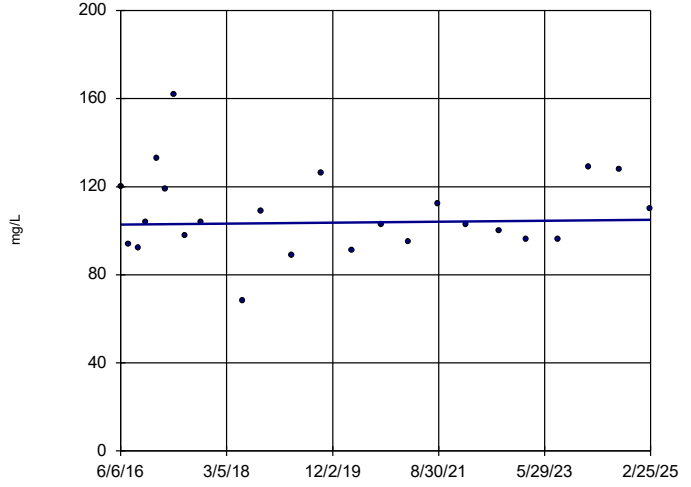
Constituent: TDS Analysis Run 7/7/2025 2:53 PM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWA-18I (bg)



n = 24

Slope = 0.2504 units per year.

Mann-Kendall statistic = 7 critical = 105

Trend not significant at 99% confidence level (α = 0.005 per tail).

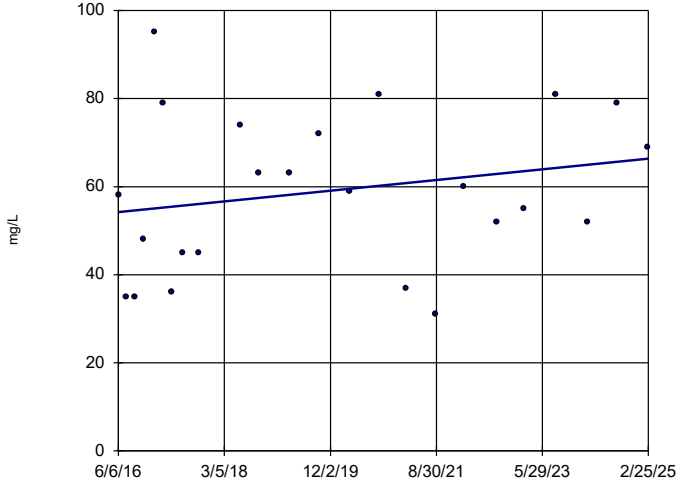
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Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWA-18S (bg)



n = 24

Slope = 1.39 units per year.

Mann-Kendall statistic = 46 critical = 105

Trend not significant at 99% confidence level (α = 0.005 per tail).

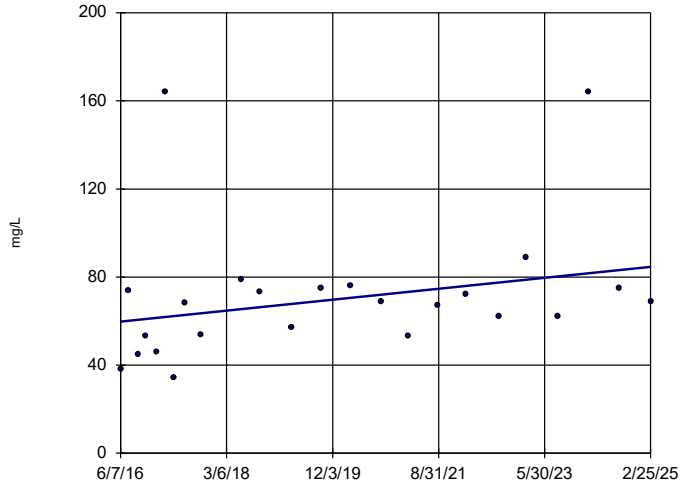
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Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWA-20S (bg)



n = 24

Slope = 2.836 units per year.

Mann-Kendall statistic = 81 critical = 105

Trend not significant at 99% confidence level (α = 0.005 per tail).

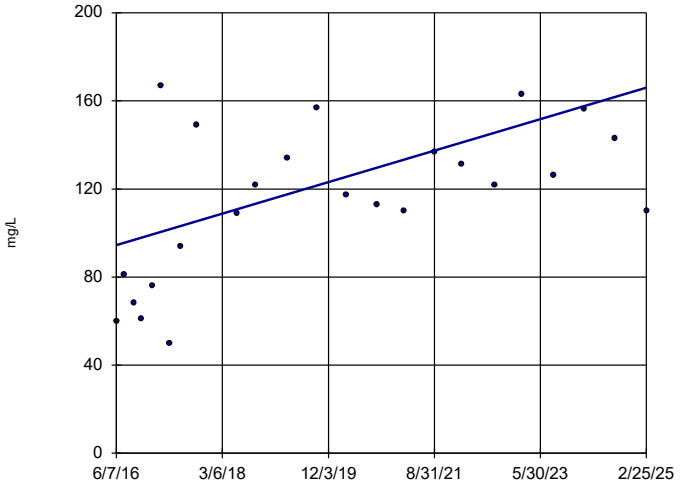
Constituent: TDS Analysis Run 7/7/2025 2:53 PM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWA-21I (bg)



n = 24

Slope = 8.192 units per year.

Mann-Kendall statistic = 112 critical = 105

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 7/7/2025 2:53 PM View: Appendix III Trend Tests

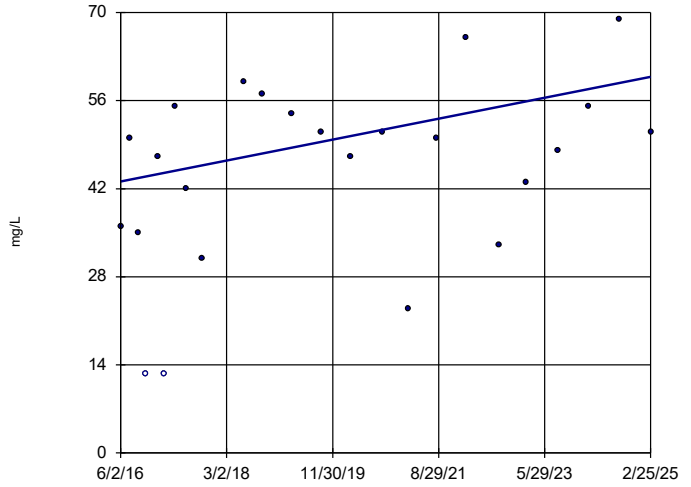
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-30I (bg)



n = 24

Slope = 1.9 units per year.

Mann-Kendall statistic = 69 critical = 105

Trend not significant at 99% confidence level (α = 0.005 per tail).

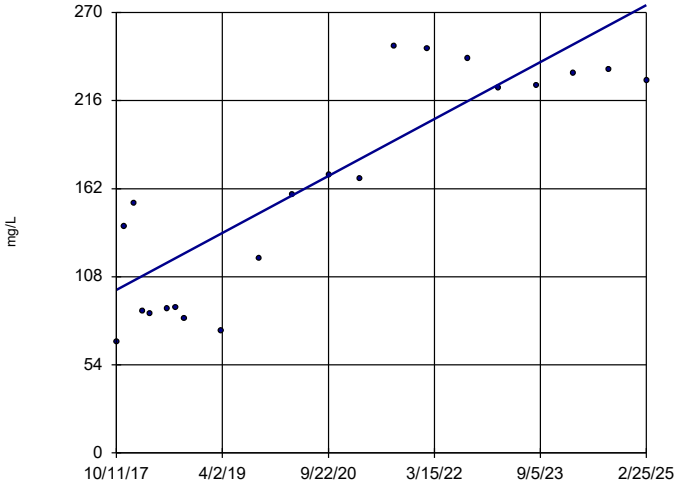
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Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWA-39 (bg)



n = 21

Slope = 23.65 units per year.

Mann-Kendall statistic = 120 critical = 87

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

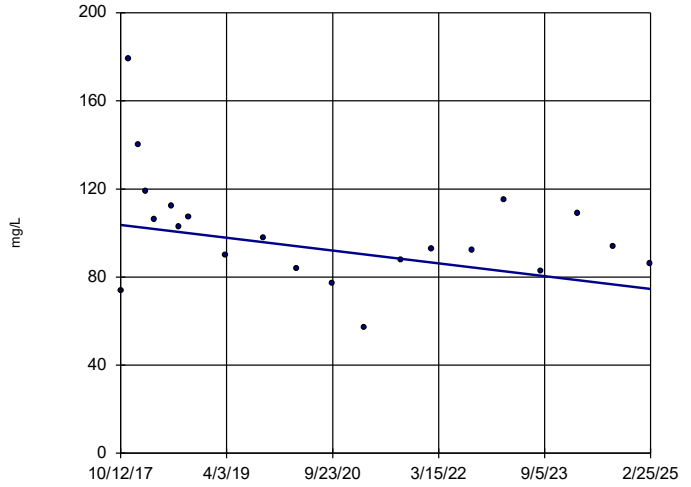
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Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWA-40 (bg)



n = 21

Slope = -3.94 units per year.

Mann-Kendall statistic = -62 critical = -87

Trend not significant at 99% confidence level (α = 0.005 per tail).

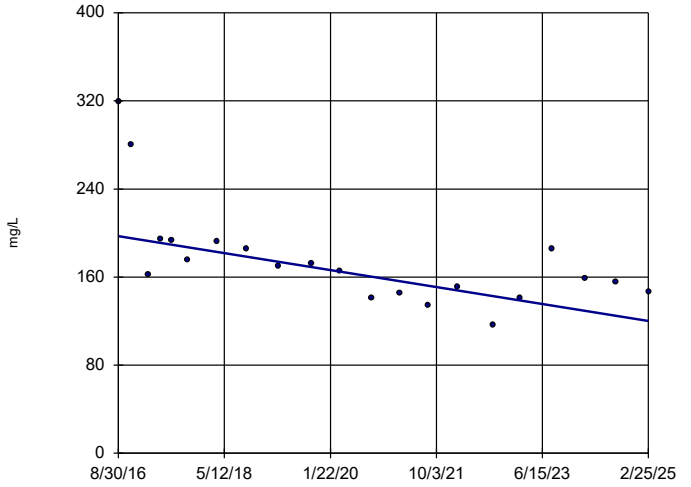
Constituent: TDS Analysis Run 7/7/2025 2:53 PM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWA-47 (bg)



n = 21

Slope = -9.065 units per year.

Mann-Kendall statistic = -118 critical = -87

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

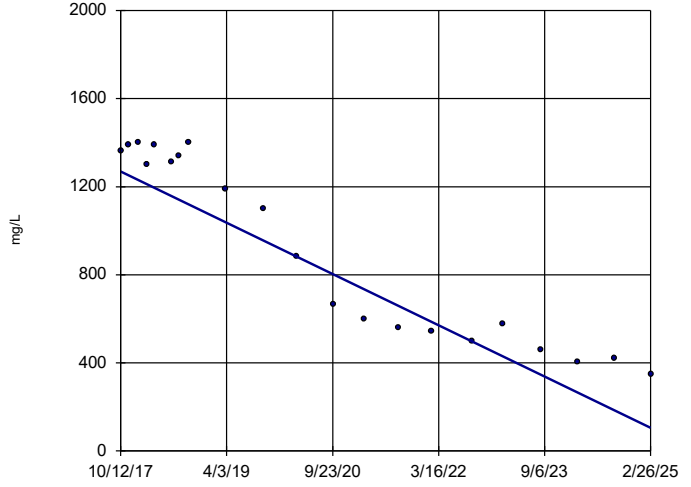
Constituent: TDS Analysis Run 7/7/2025 2:53 PM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWC-38



n = 21

Slope = -157.7 units per year.

Mann-Kendall statistic = -172 critical = -87

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

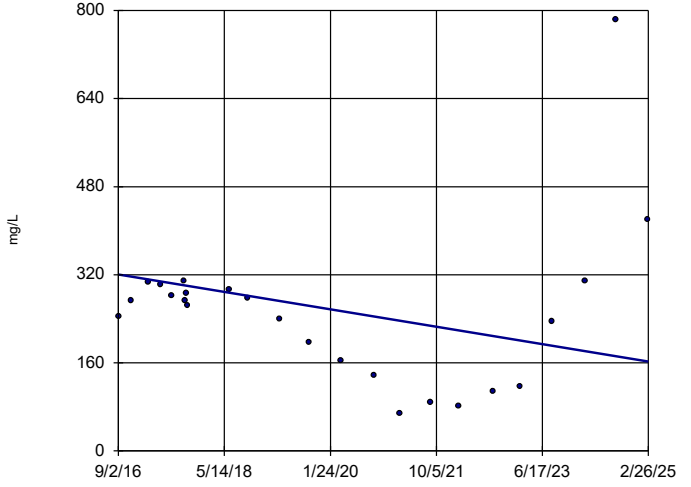
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Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWC-36A



n = 24

Slope = -18.6 units per year.

Mann-Kendall statistic = -56 critical = -105

Trend not significant at 99% confidence level (α = 0.005 per tail).

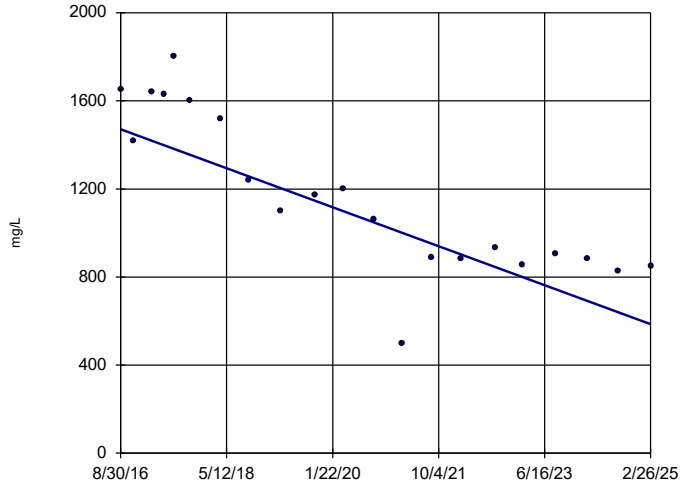
Constituent: TDS Analysis Run 7/7/2025 2:53 PM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWC-42



n = 21

Slope = -104.1 units per year.

Mann-Kendall statistic = -158
critical = -87

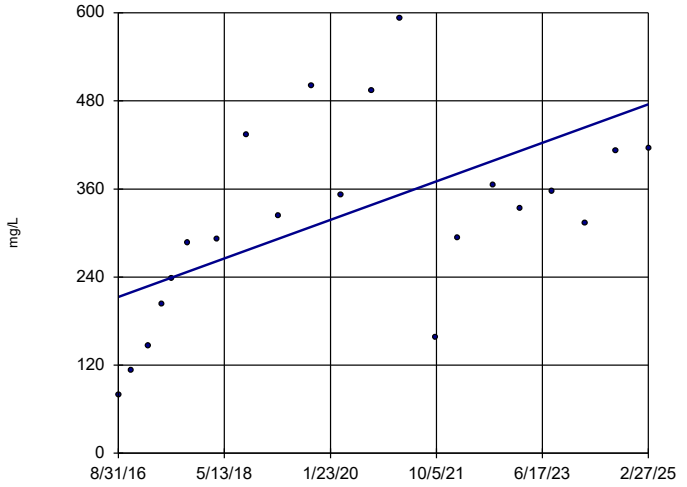
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 7/7/2025 2:53 PM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWC-43



n = 21

Slope = 30.9 units per year.

Mann-Kendall statistic = 106
critical = 87

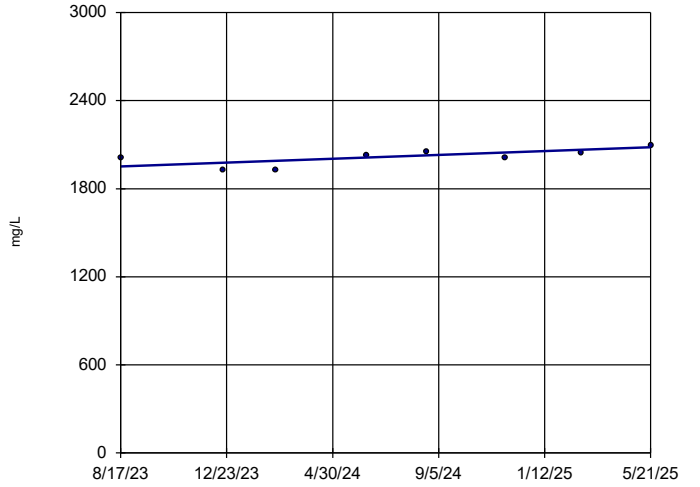
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 7/7/2025 2:53 PM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWC-50



n = 8

Slope = 74.43 units per year.

Mann-Kendall statistic = 16
critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 7/7/2025 2:53 PM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

FIGURE F.

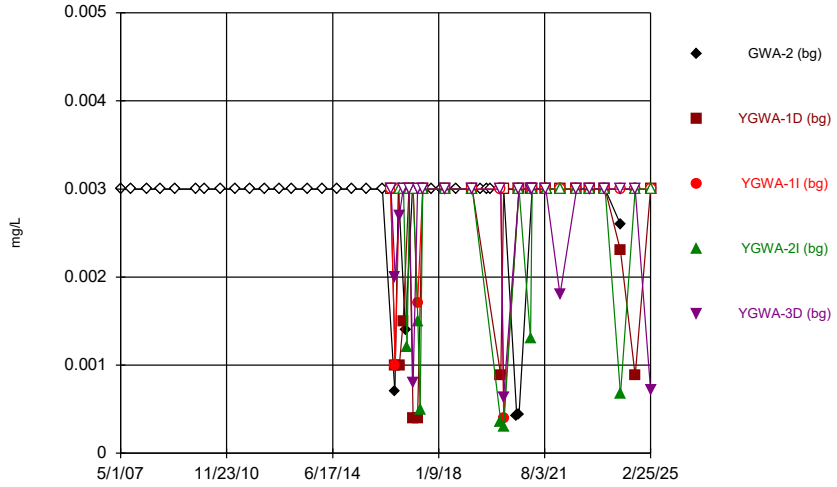
Upper Tolerance Limits Summary Table

Plant Yates Client: Southern Company Data: Yates AMA-R6 Printed 5/20/2025, 9:48 PM

Constituent	Upper Lim.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.0047	467	n/a	n/a	87.58	n/a	n/a	NaN	NP Inter(NDs)
Arsenic (mg/L)	0.005	515	n/a	n/a	74.56	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	0.21	515	n/a	n/a	2.136	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	0.0011	499	n/a	n/a	80.36	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	0.00063	499	n/a	n/a	94.79	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	0.0093	467	n/a	n/a	80.51	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	0.035	508	n/a	n/a	69.49	n/a	n/a	NaN	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	6.92	493	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Fluoride (mg/L)	1.1	518	n/a	n/a	54.25	n/a	n/a	NaN	NP Inter(NDs)
Lead (mg/L)	0.0013	469	n/a	n/a	87.85	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	0.03	493	n/a	n/a	27.18	n/a	n/a	NaN	NP Inter(normality)
Mercury (mg/L)	0.00064	423	n/a	n/a	87.23	n/a	n/a	NaN	NP Inter(NDs)
Molybdenum (mg/L)	0.03	457	n/a	n/a	61.49	n/a	n/a	NaN	NP Inter(NDs)
Selenium (mg/L)	0.005	497	n/a	n/a	92.96	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	0.001	431	n/a	n/a	97.22	n/a	n/a	NaN	NP Inter(NDs)

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Hollow symbols indicate censored values.

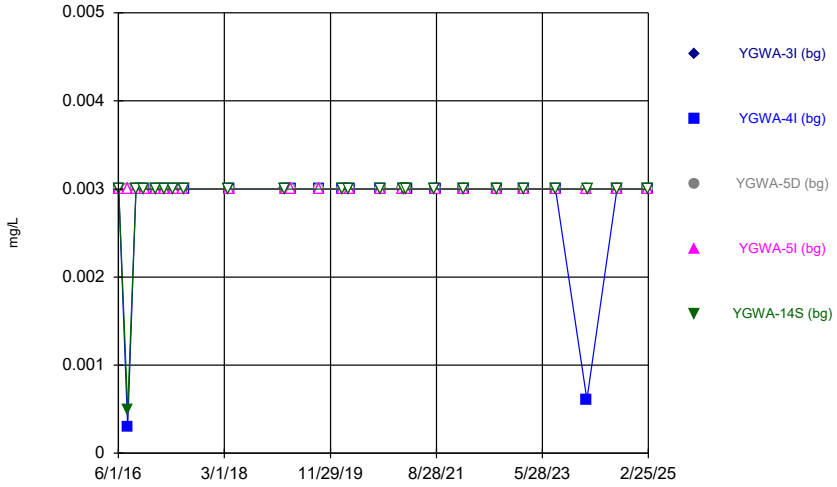
Time Series



Constituent: Antimony Analysis Run 5/20/2025 9:45 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

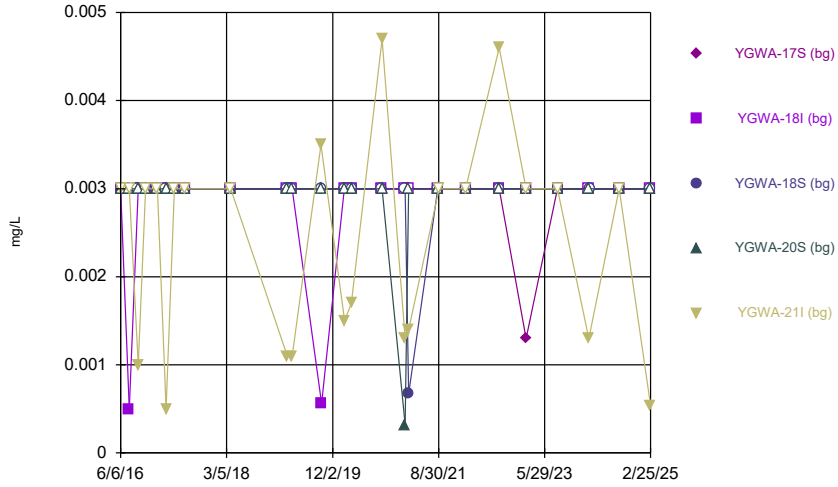
Time Series



Constituent: Antimony Analysis Run 5/20/2025 9:45 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

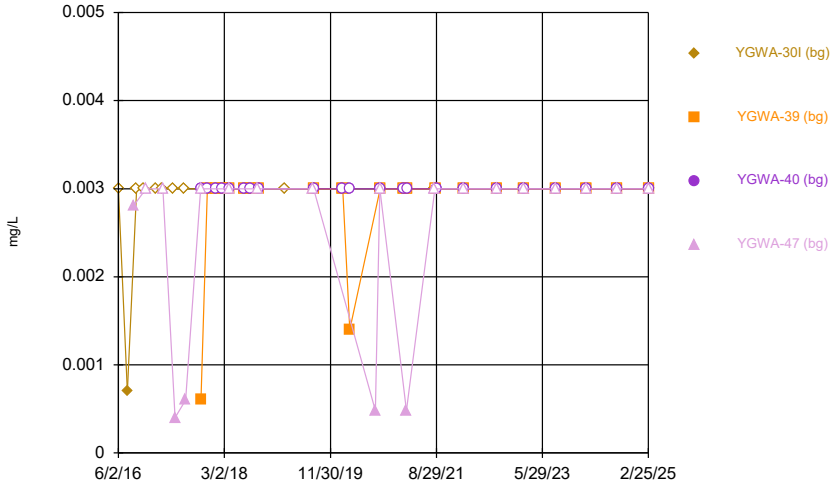
Time Series



Constituent: Antimony Analysis Run 5/20/2025 9:45 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

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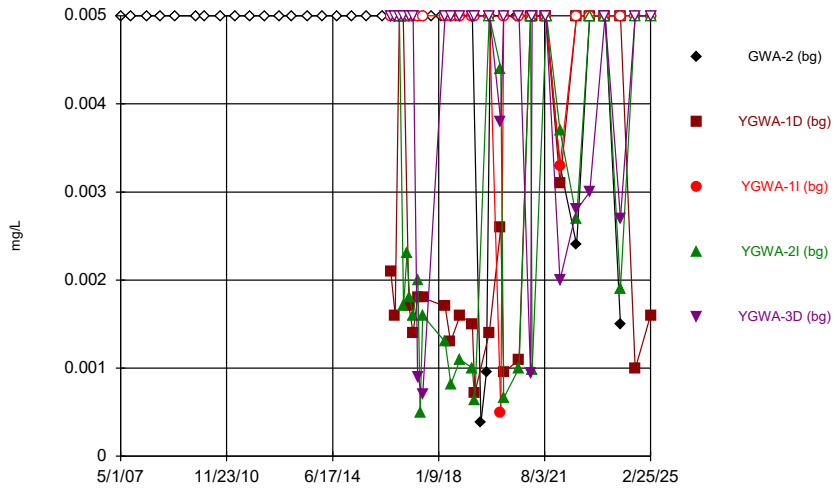
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Plant Yates Client: Southern Company Data: Yates AMA-R6

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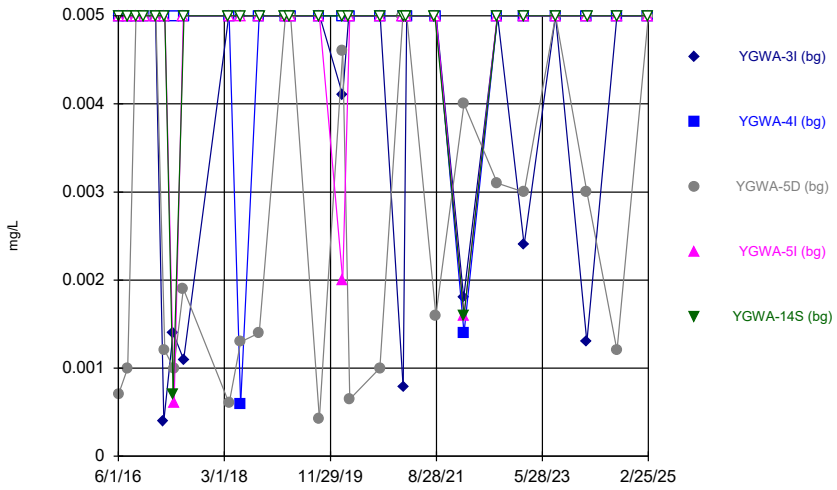
Time Series



Constituent: Arsenic Analysis Run 5/20/2025 9:45 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

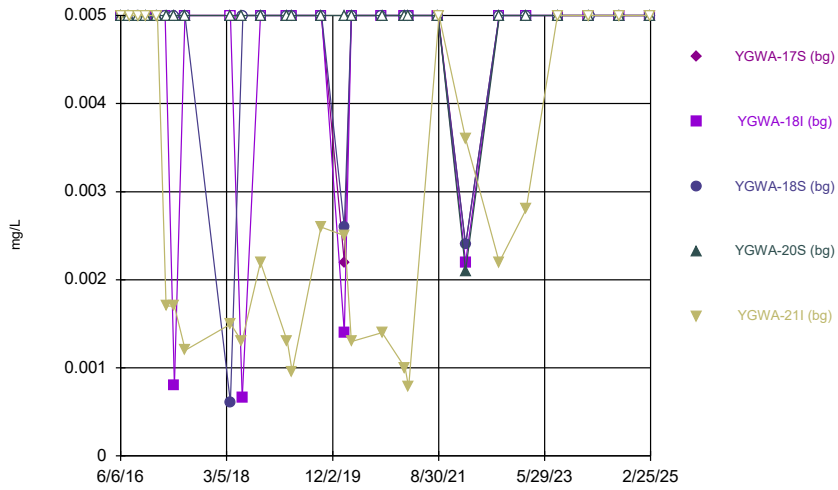
Time Series



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Plant Yates Client: Southern Company Data: Yates AMA-R6

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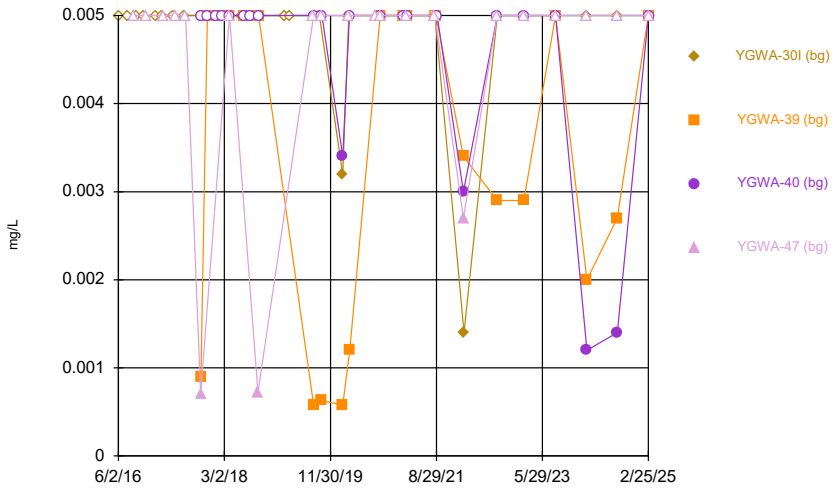
Time Series



Constituent: Arsenic Analysis Run 5/20/2025 9:45 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

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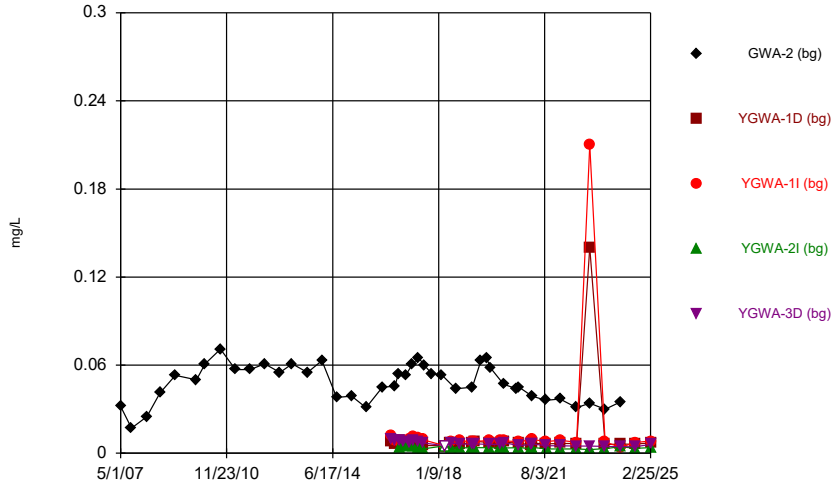
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Plant Yates Client: Southern Company Data: Yates AMA-R6

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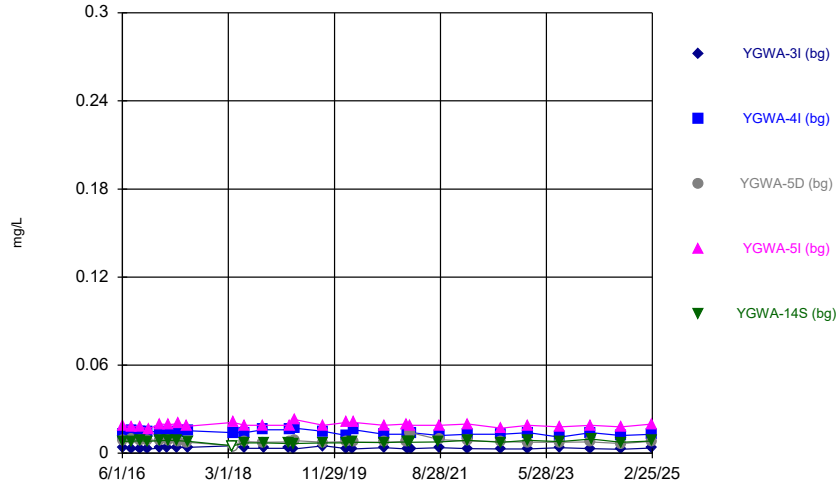
Time Series



Constituent: Barium Analysis Run 5/20/2025 9:45 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

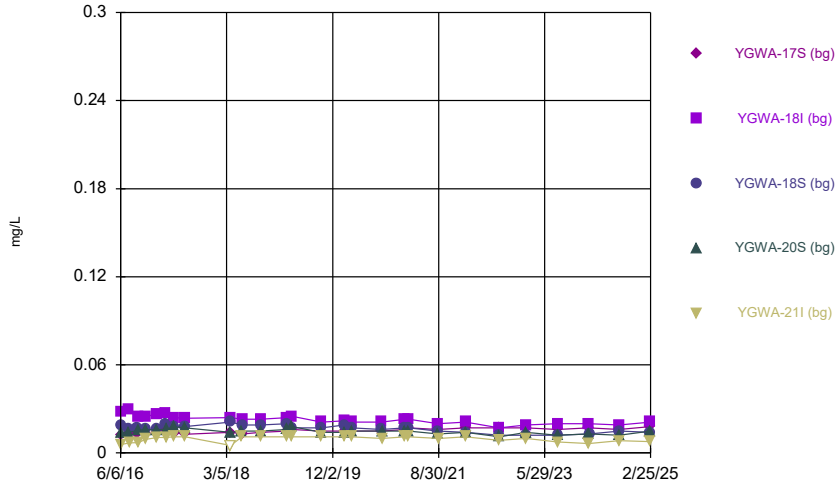
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Plant Yates Client: Southern Company Data: Yates AMA-R6

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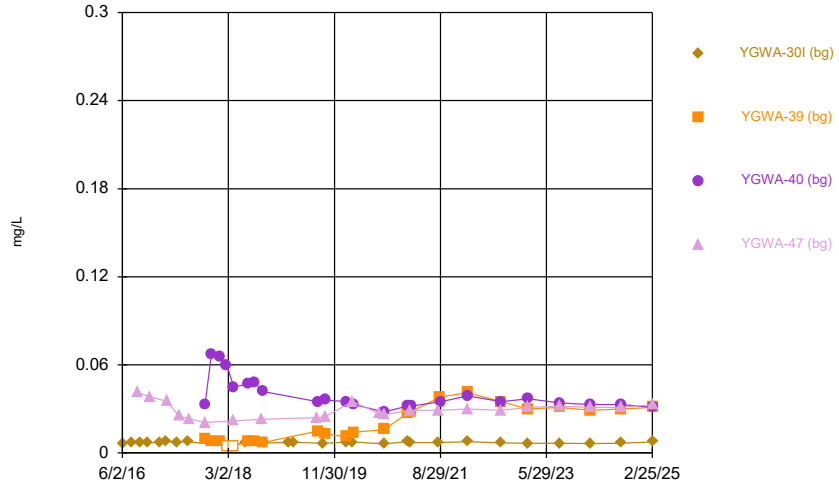
Time Series



Constituent: Barium Analysis Run 5/20/2025 9:45 PM View: Upper Tolerance Limits
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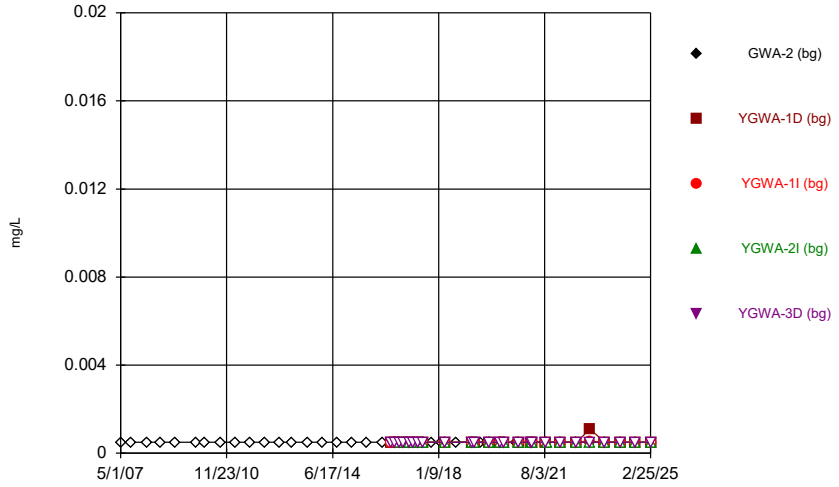
Time Series



Constituent: Barium Analysis Run 5/20/2025 9:45 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

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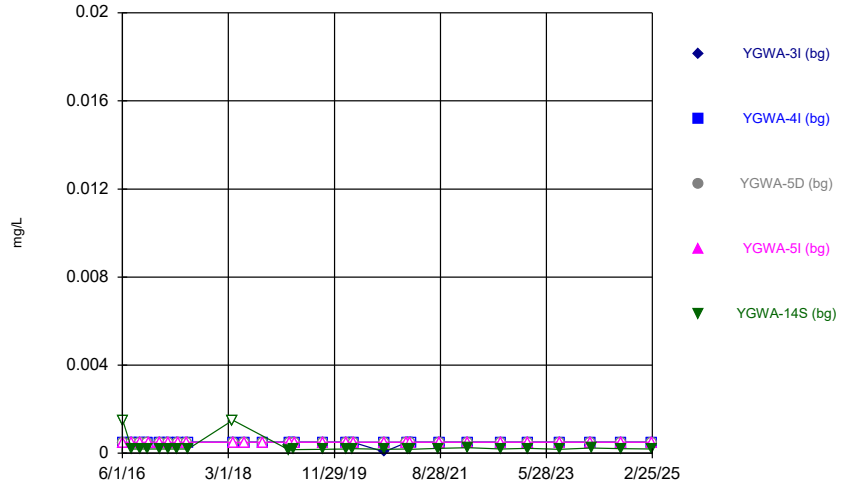
Time Series



Constituent: Beryllium Analysis Run 5/20/2025 9:45 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

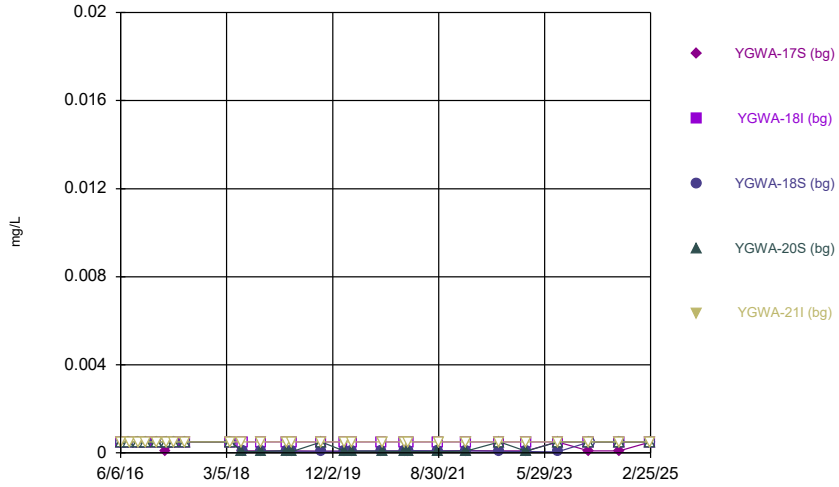
Time Series



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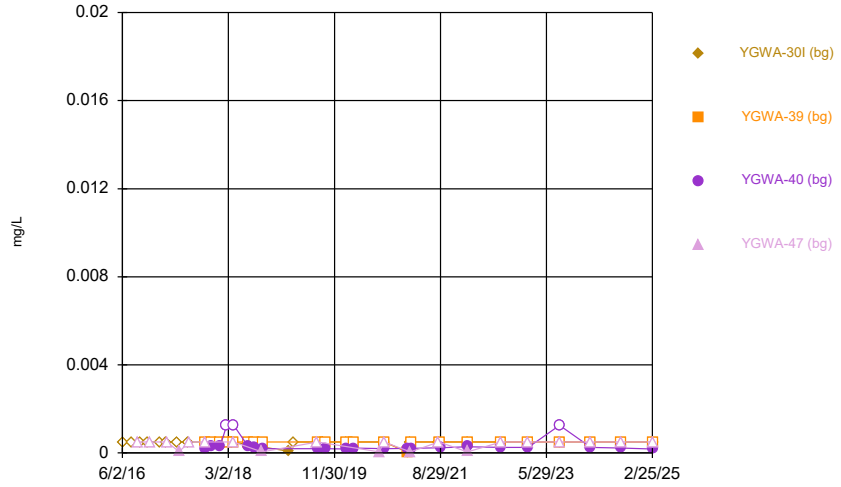
Time Series



Constituent: Beryllium Analysis Run 5/20/2025 9:45 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

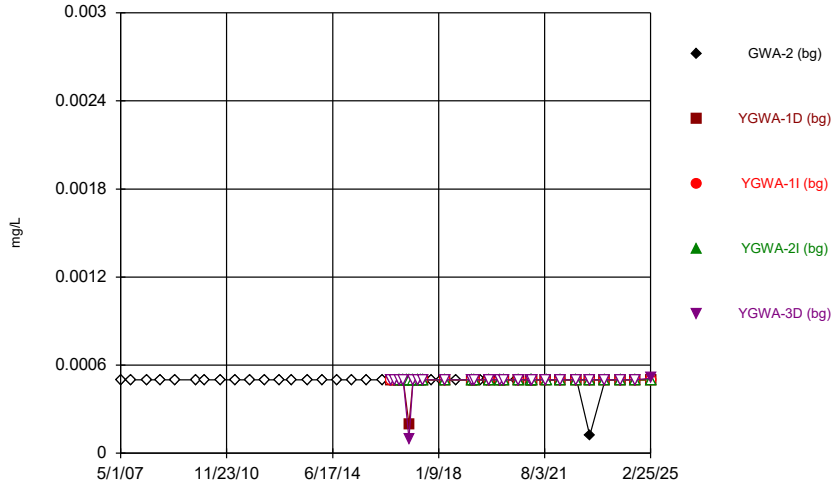
Time Series



Constituent: Beryllium Analysis Run 5/20/2025 9:45 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

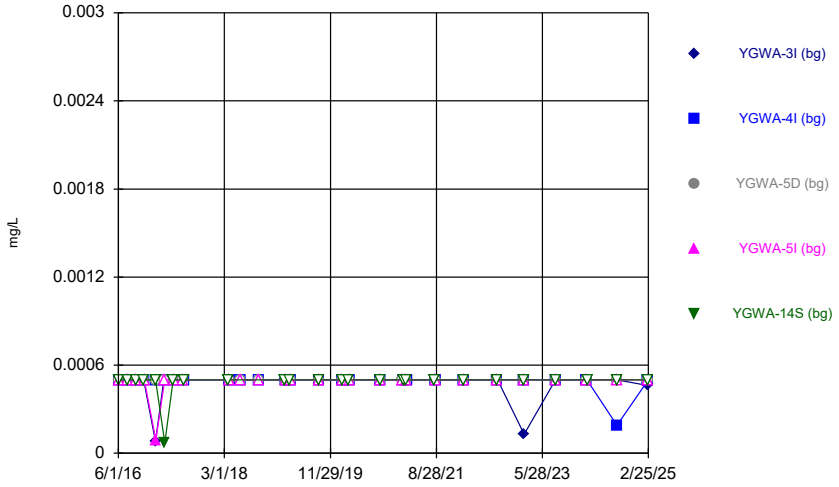
Time Series



Constituent: Cadmium Analysis Run 5/20/2025 9:45 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
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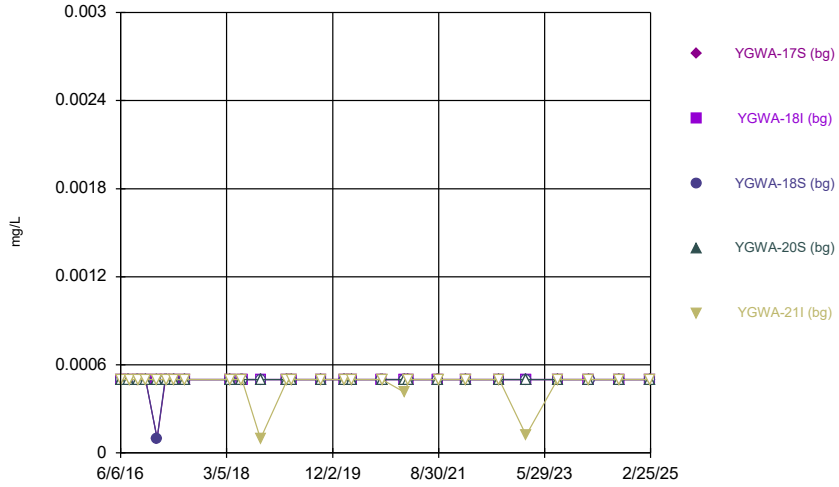
Time Series



Constituent: Cadmium Analysis Run 5/20/2025 9:45 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
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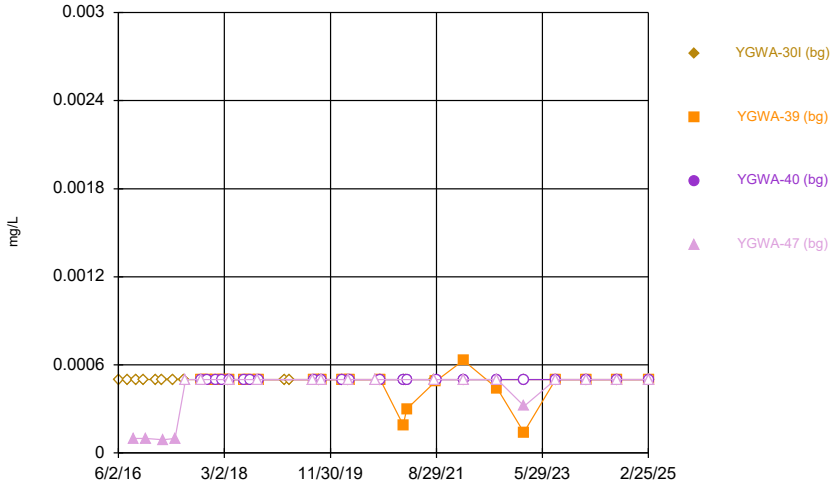
Time Series



Constituent: Cadmium Analysis Run 5/20/2025 9:45 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

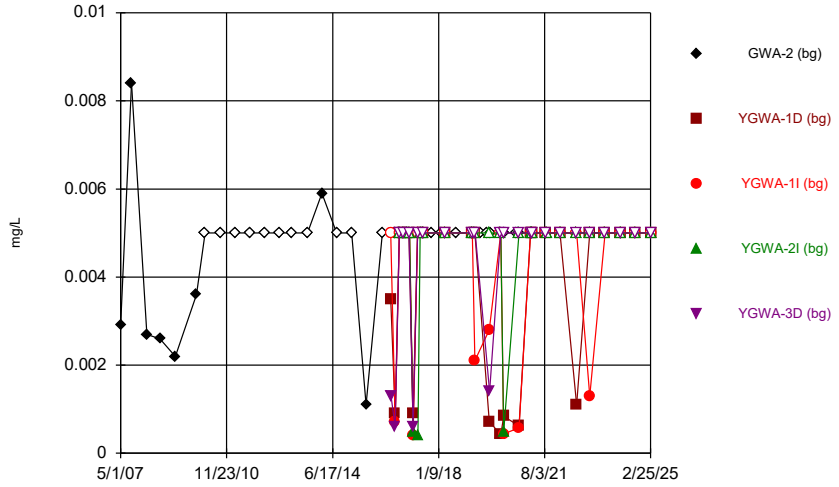
Time Series



Constituent: Cadmium Analysis Run 5/20/2025 9:46 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
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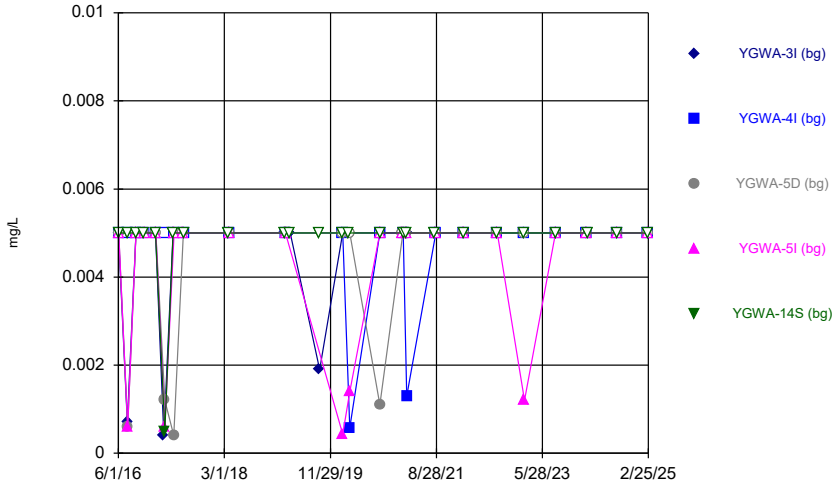
Time Series



Constituent: Chromium Analysis Run 5/20/2025 9:46 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

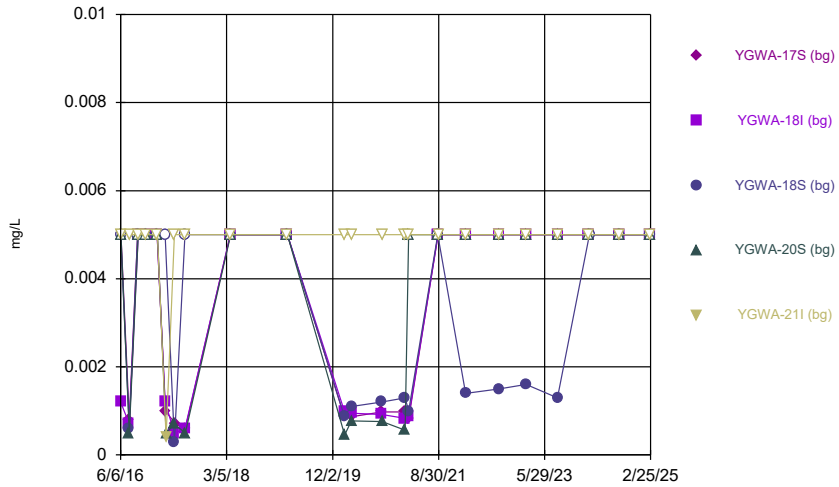
Time Series



Constituent: Chromium Analysis Run 5/20/2025 9:46 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
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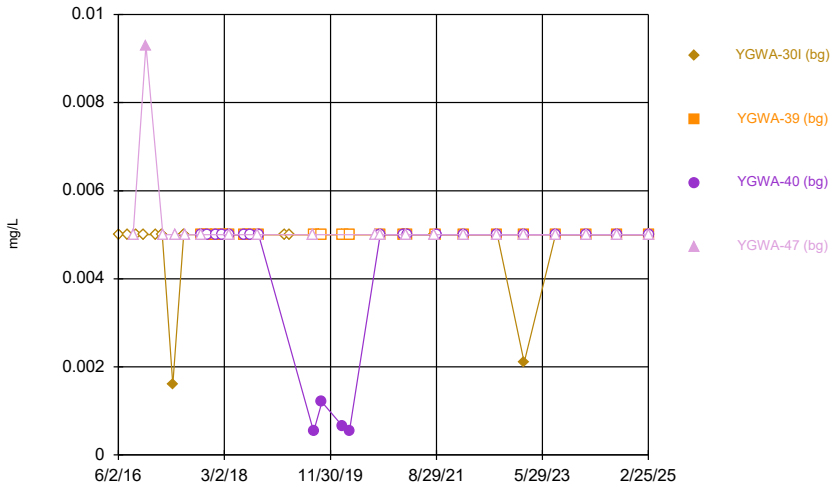
Time Series



Constituent: Chromium Analysis Run 5/20/2025 9:46 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
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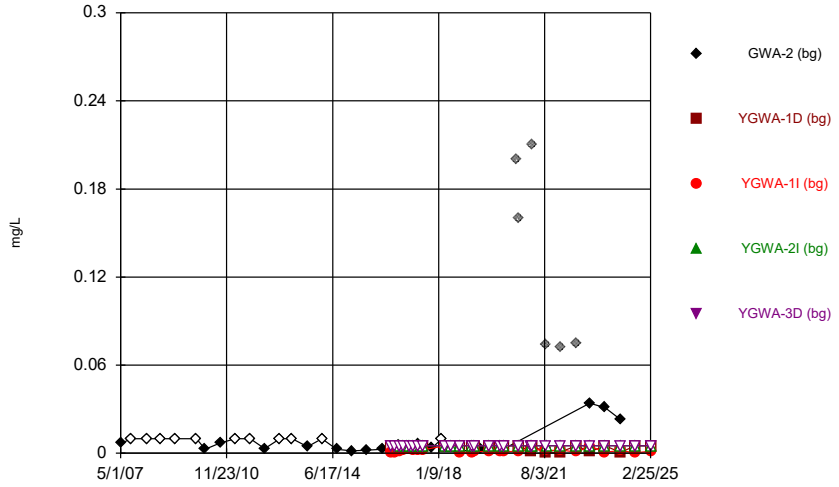
Time Series



Constituent: Chromium Analysis Run 5/20/2025 9:46 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
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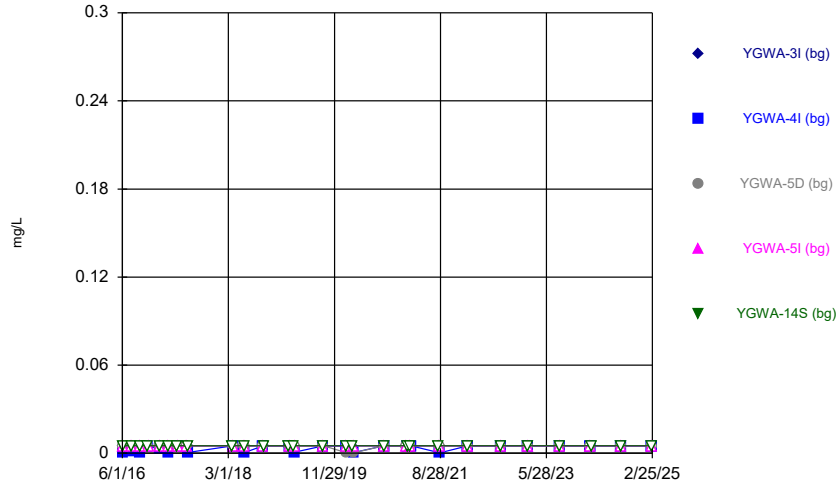
Time Series



Constituent: Cobalt Analysis Run 5/20/2025 9:46 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
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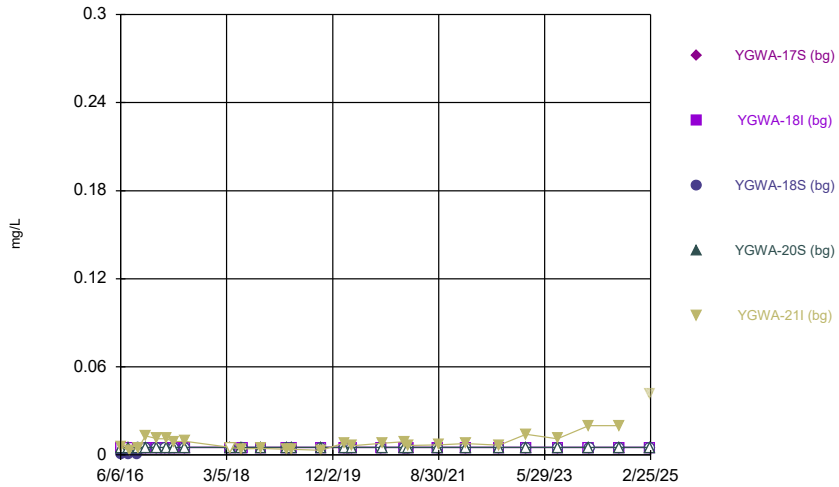
Time Series



Constituent: Cobalt Analysis Run 5/20/2025 9:46 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
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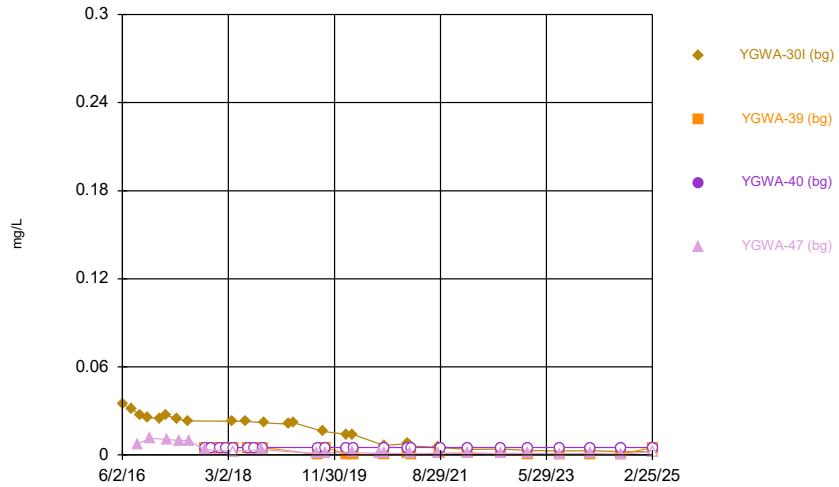
Time Series



Constituent: Cobalt Analysis Run 5/20/2025 9:46 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
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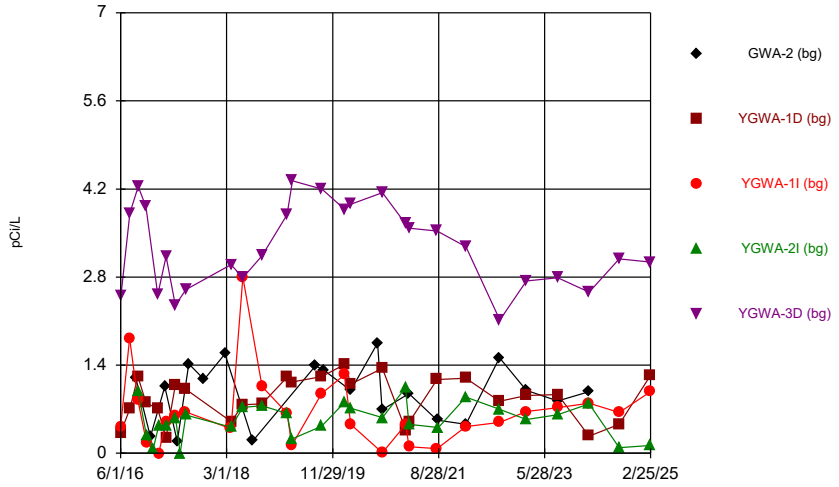
Time Series



Constituent: Cobalt Analysis Run 5/20/2025 9:46 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

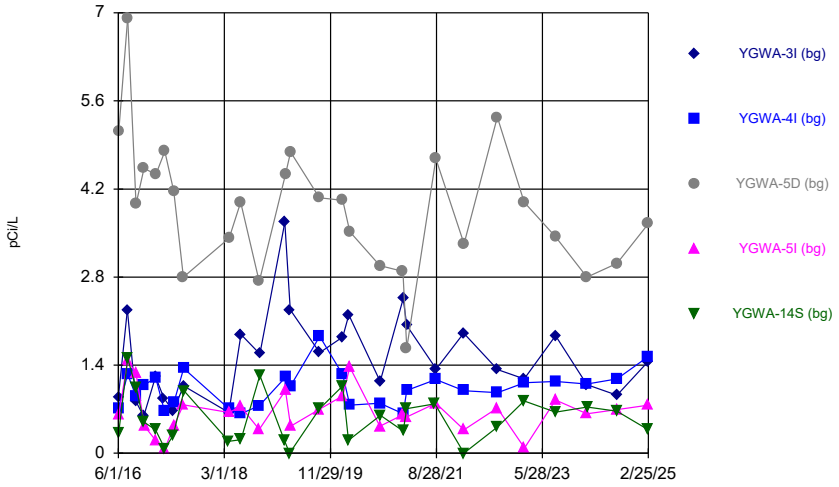
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 5/20/2025 9:46 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

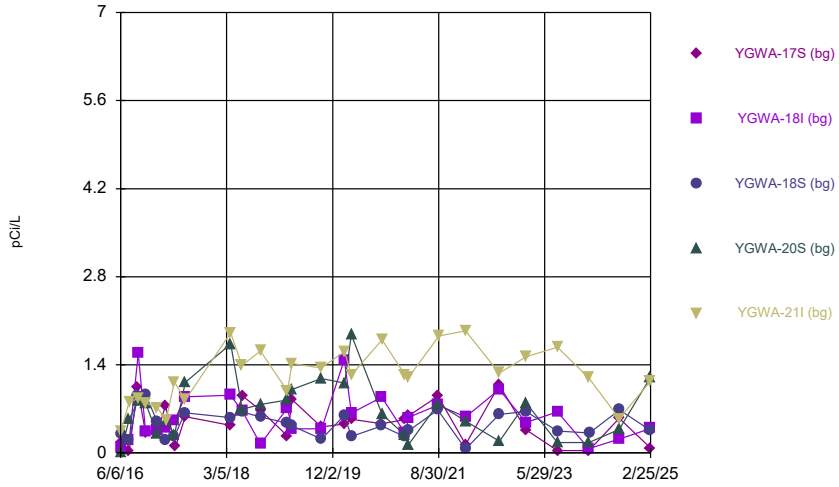
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 5/20/2025 9:46 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

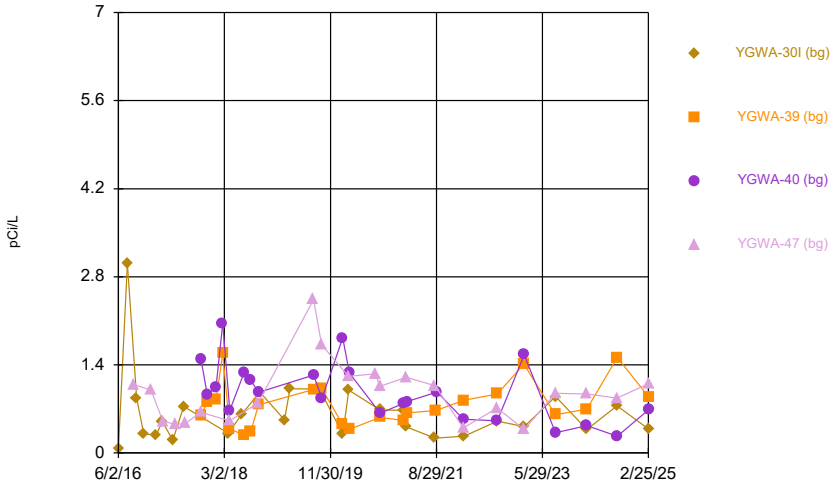
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 5/20/2025 9:46 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

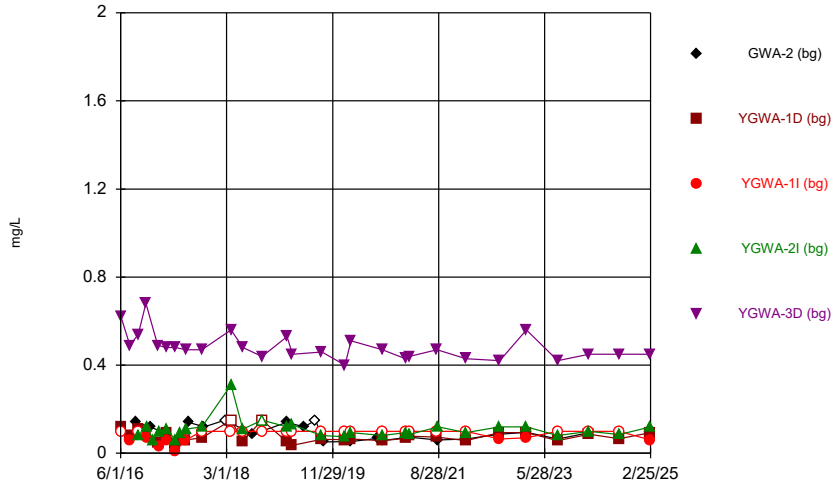
Time Series



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Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
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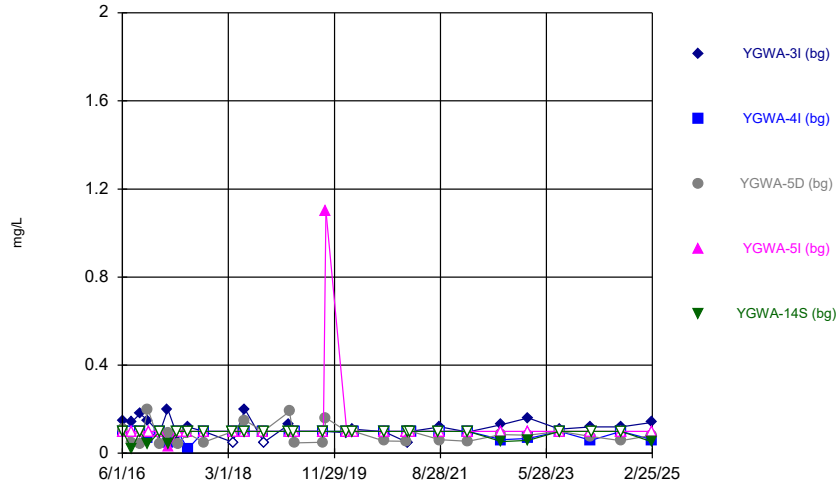
Time Series



Constituent: Fluoride Analysis Run 5/20/2025 9:46 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
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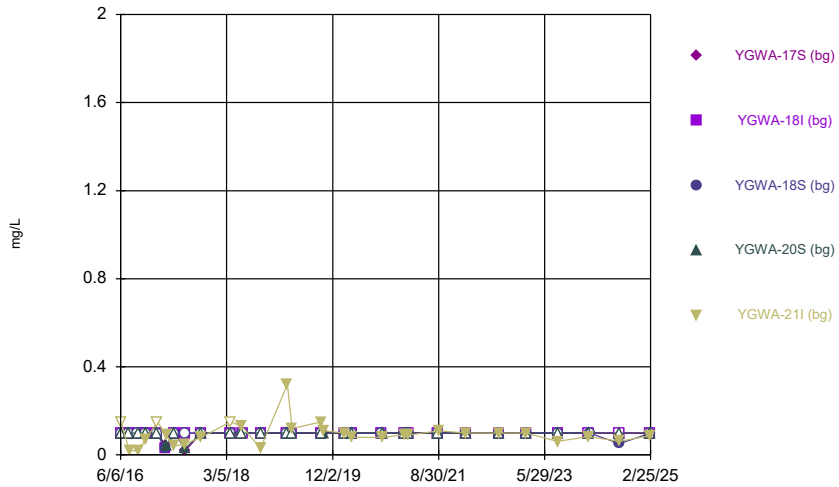
Time Series



Constituent: Fluoride Analysis Run 5/20/2025 9:46 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
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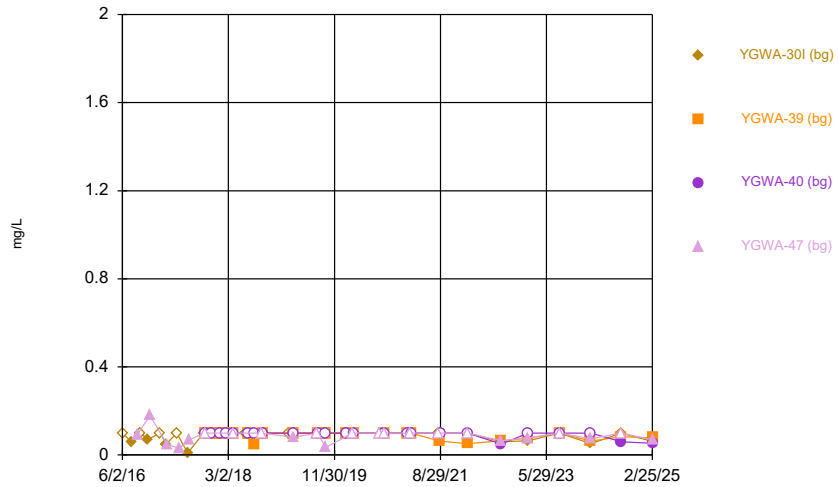
Time Series



Constituent: Fluoride Analysis Run 5/20/2025 9:46 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

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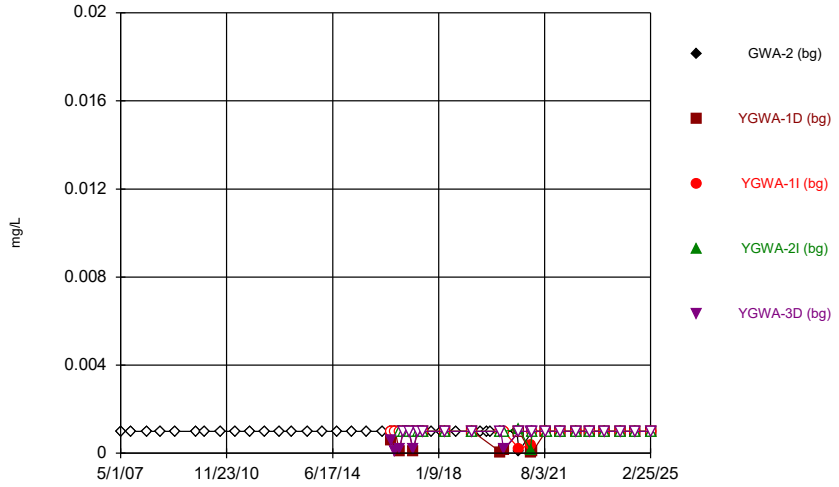
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Constituent: Fluoride Analysis Run 5/20/2025 9:46 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
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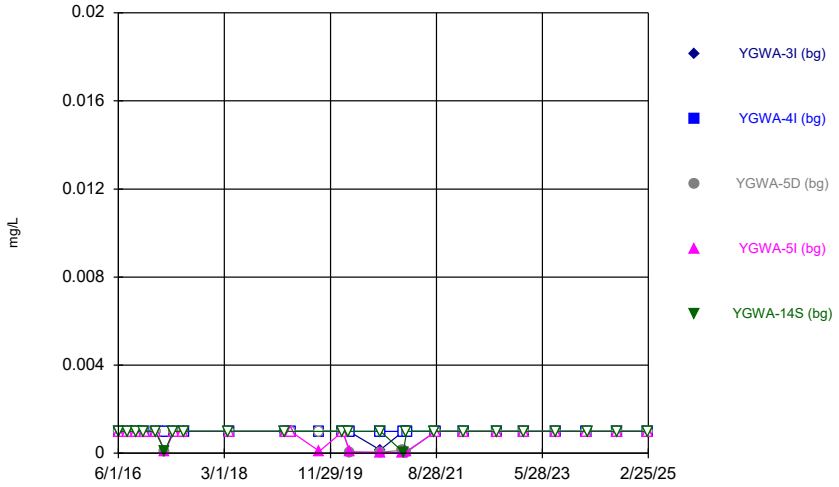
Time Series



Constituent: Lead Analysis Run 5/20/2025 9:46 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

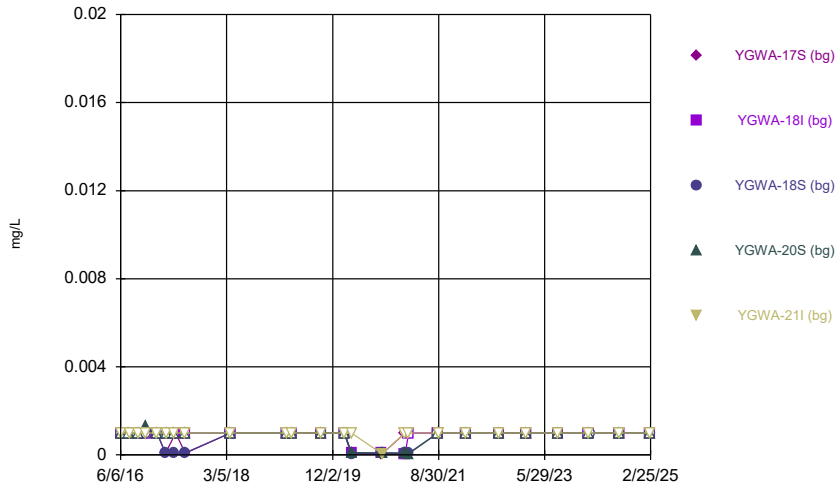
Time Series



Constituent: Lead Analysis Run 5/20/2025 9:46 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
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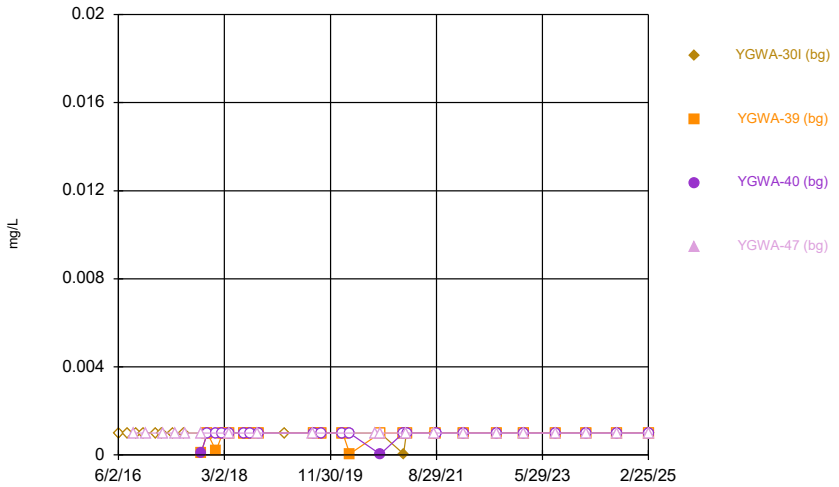
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Constituent: Lead Analysis Run 5/20/2025 9:46 PM View: Upper Tolerance Limits
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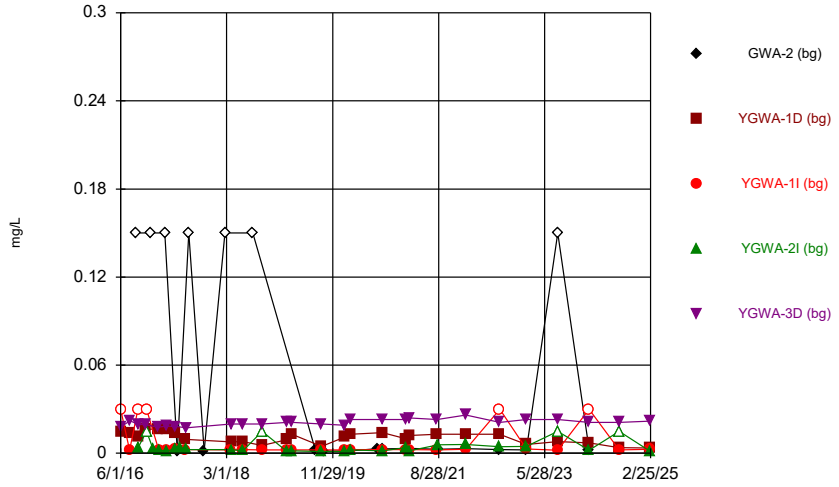
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Constituent: Lead Analysis Run 5/20/2025 9:46 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

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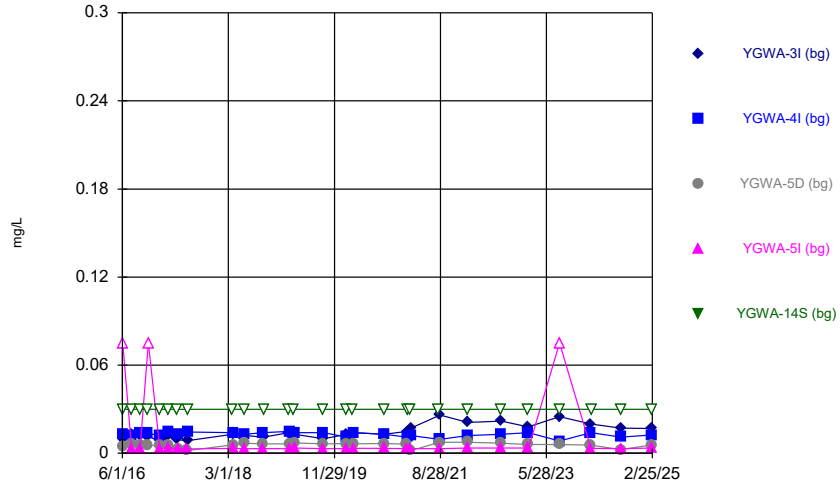
Time Series



Constituent: Lithium Analysis Run 5/20/2025 9:46 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
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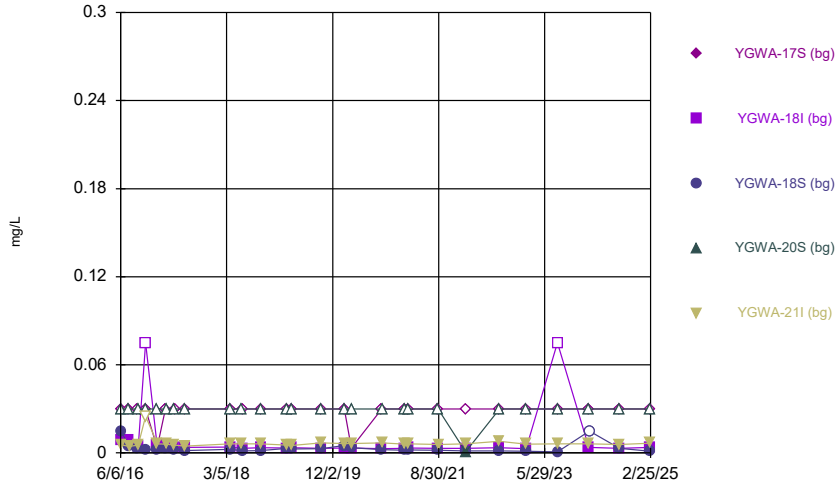
Time Series



Constituent: Lithium Analysis Run 5/20/2025 9:46 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

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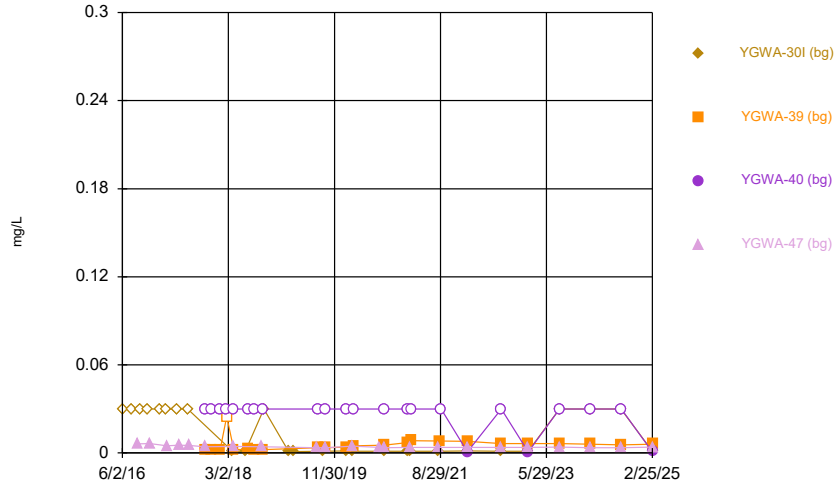
Time Series



Constituent: Lithium Analysis Run 5/20/2025 9:46 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

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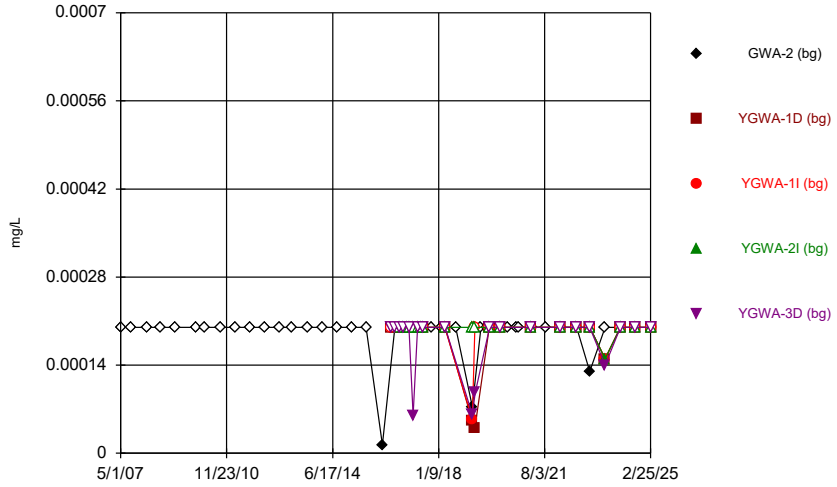
Time Series



Constituent: Lithium Analysis Run 5/20/2025 9:46 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
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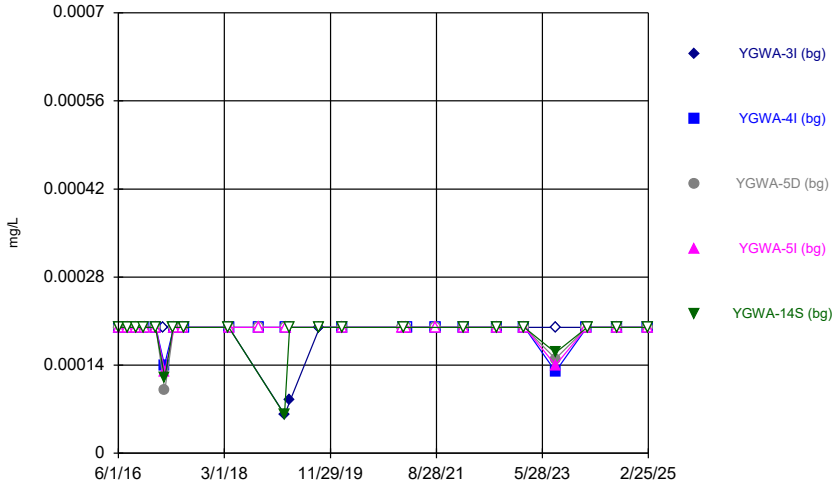
Time Series



Constituent: Mercury Analysis Run 5/20/2025 9:46 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
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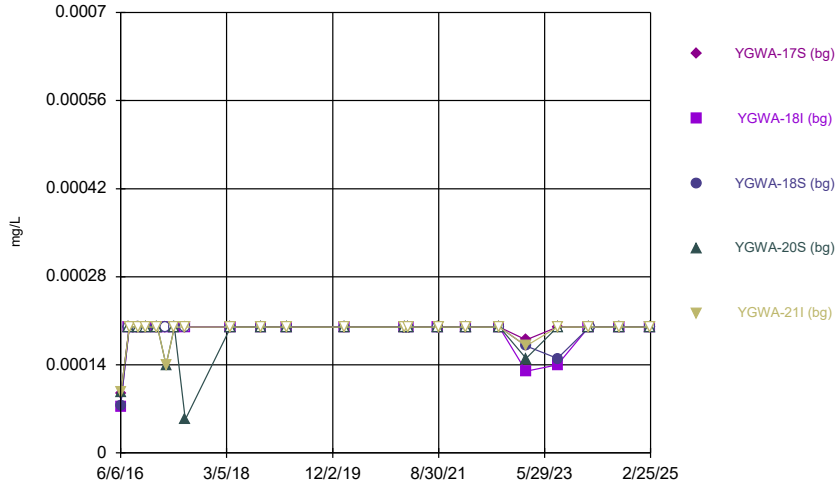
Time Series



Constituent: Mercury Analysis Run 5/20/2025 9:46 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
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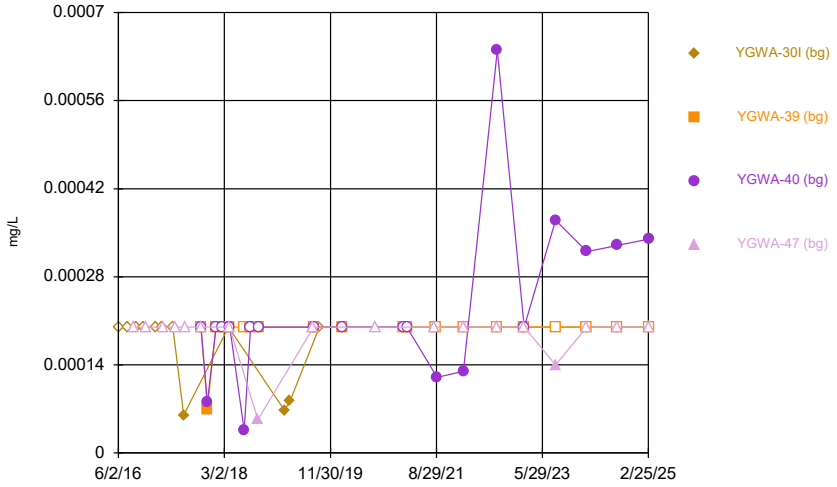
Time Series



Constituent: Mercury Analysis Run 5/20/2025 9:46 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
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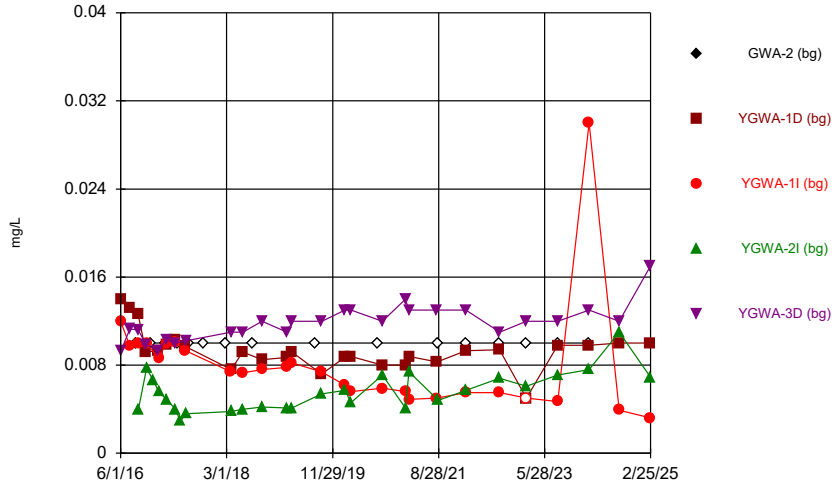
Time Series



Constituent: Mercury Analysis Run 5/20/2025 9:46 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
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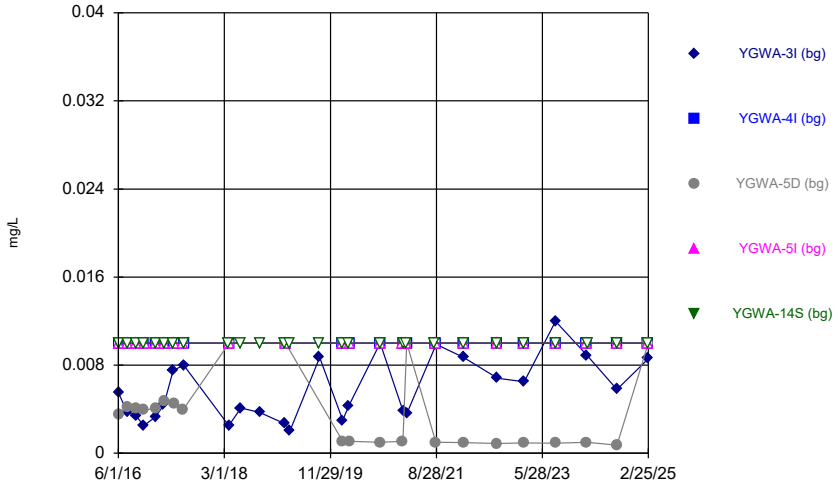
Time Series



Constituent: Molybdenum Analysis Run 5/20/2025 9:46 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
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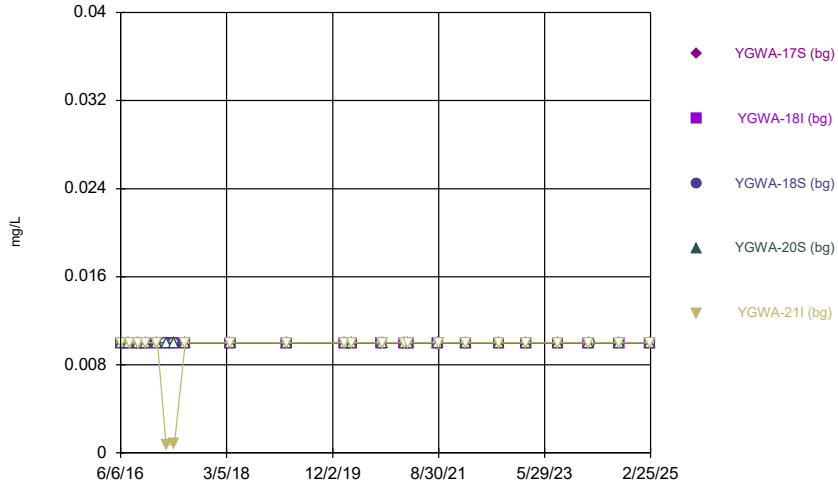
Time Series



Constituent: Molybdenum Analysis Run 5/20/2025 9:46 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
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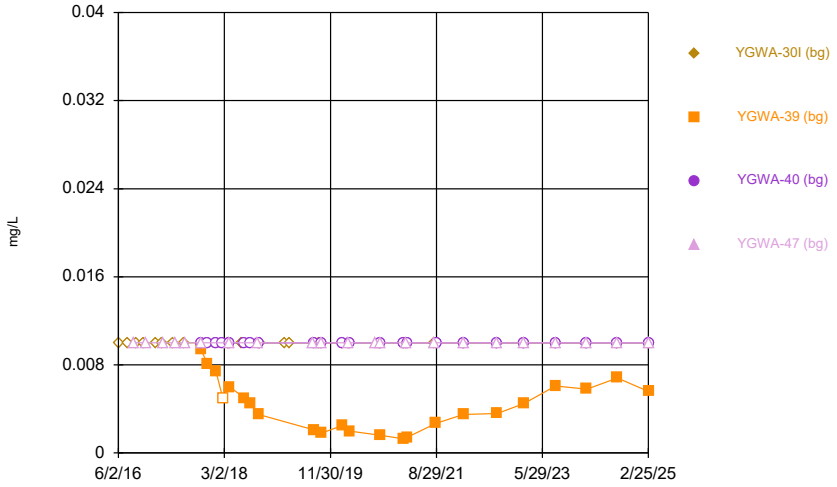
Time Series



Constituent: Molybdenum Analysis Run 5/20/2025 9:46 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

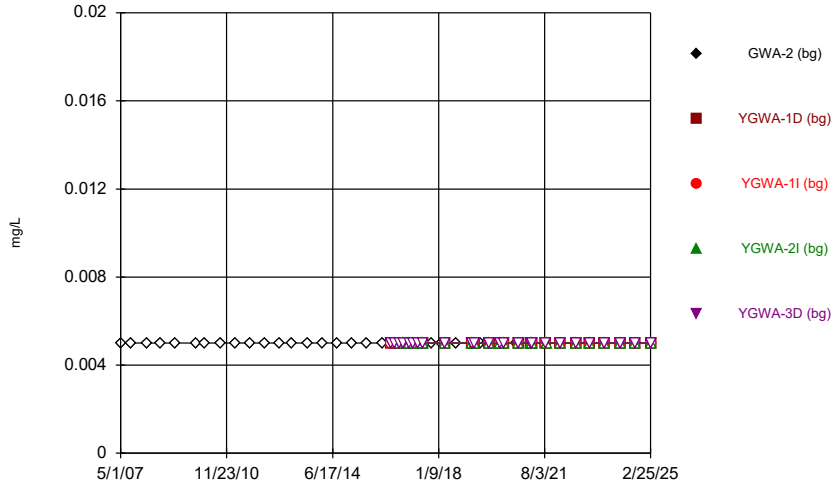
Time Series



Constituent: Molybdenum Analysis Run 5/20/2025 9:46 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

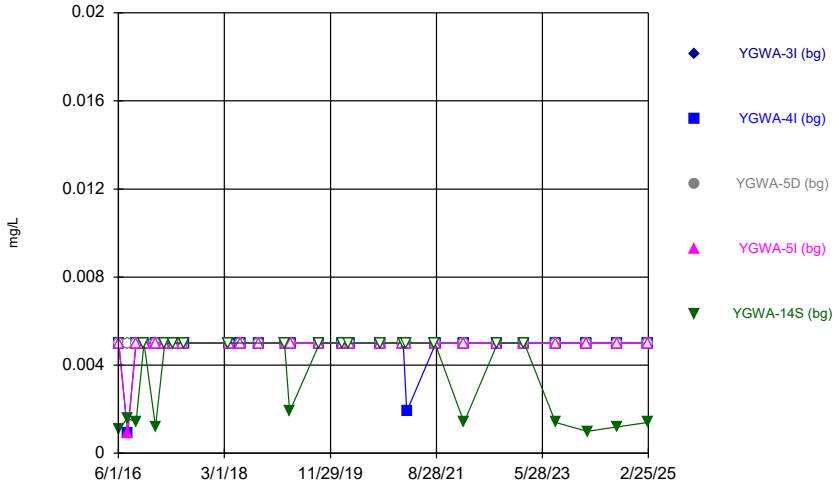
Time Series



Constituent: Selenium Analysis Run 5/20/2025 9:46 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

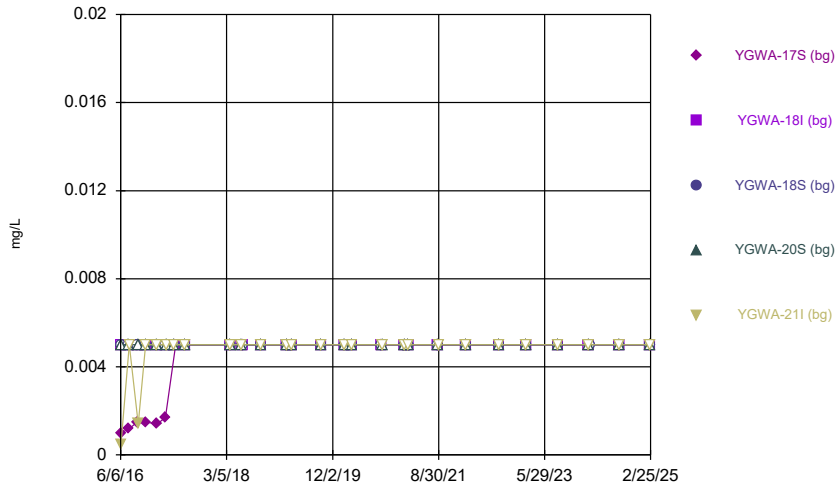
Time Series



Constituent: Selenium Analysis Run 5/20/2025 9:46 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

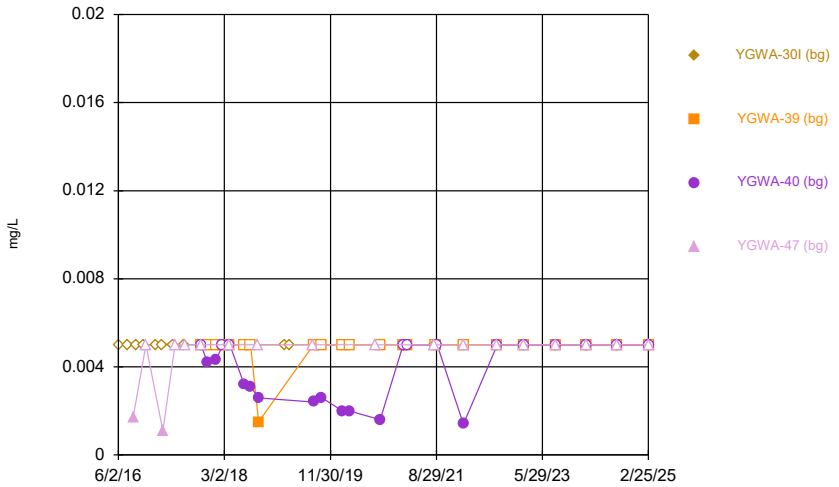
Time Series



Constituent: Selenium Analysis Run 5/20/2025 9:46 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

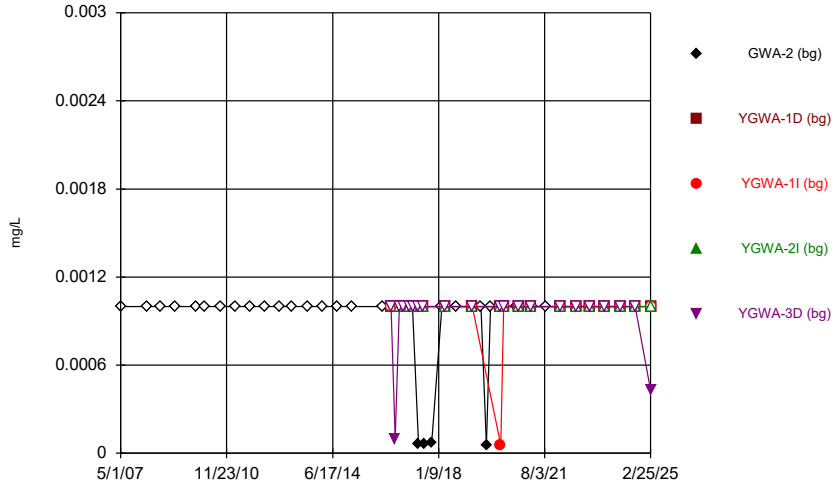
Time Series



Constituent: Selenium Analysis Run 5/20/2025 9:46 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

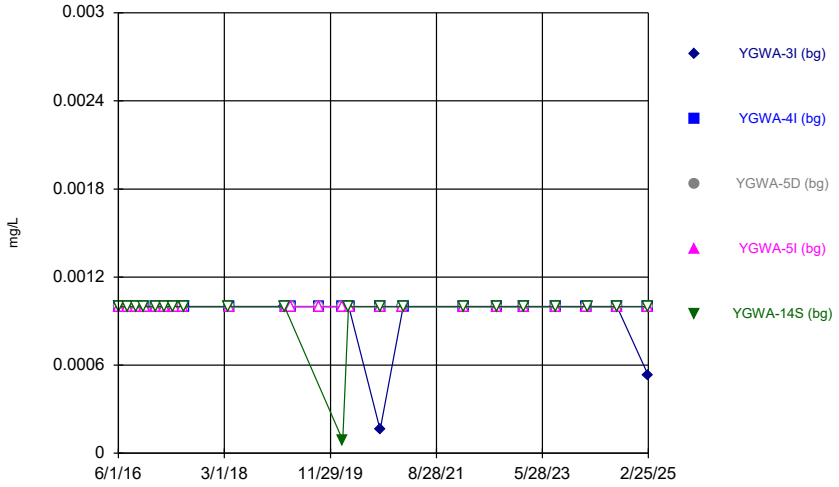
Time Series



Constituent: Thallium Analysis Run 5/20/2025 9:46 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

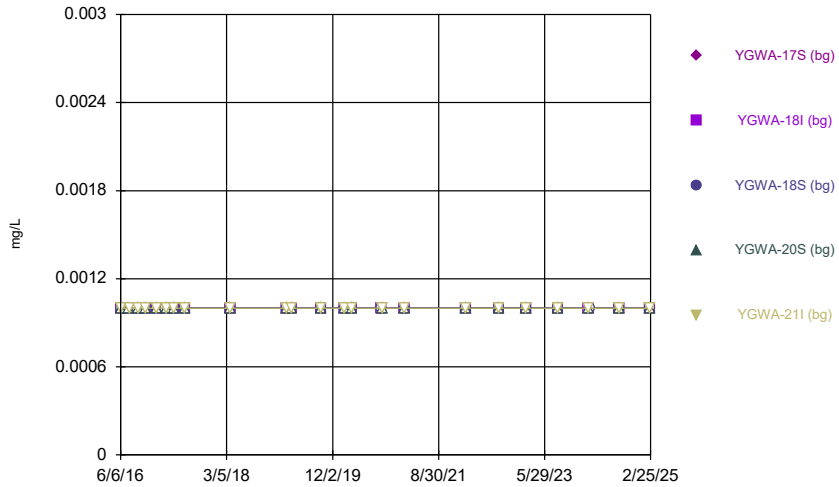
Time Series



Constituent: Thallium Analysis Run 5/20/2025 9:46 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

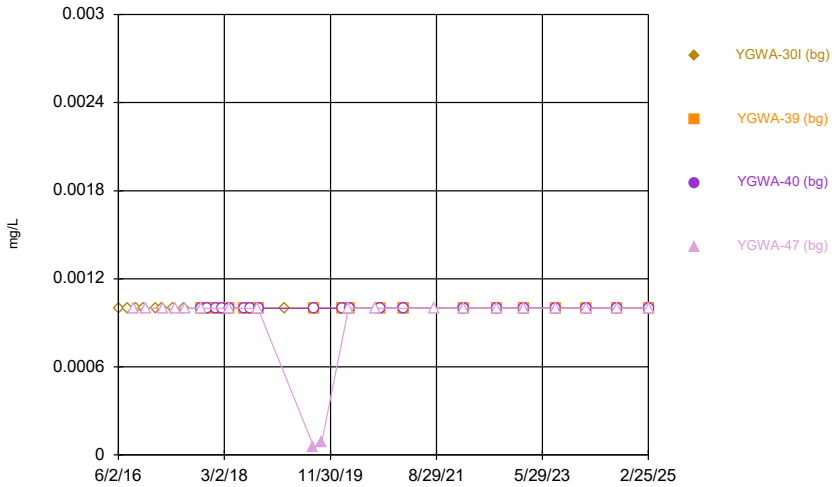
Time Series



Constituent: Thallium Analysis Run 5/20/2025 9:46 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series

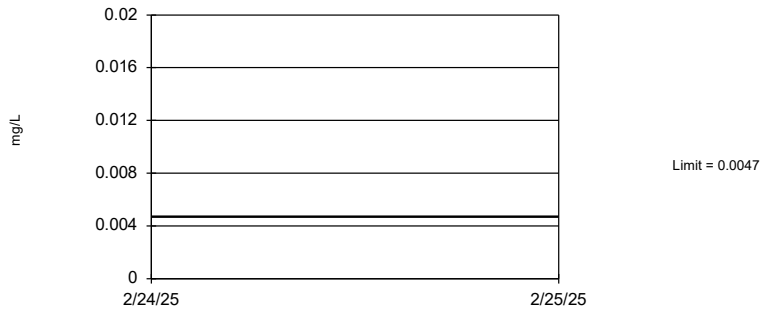


Constituent: Thallium Analysis Run 5/20/2025 9:46 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



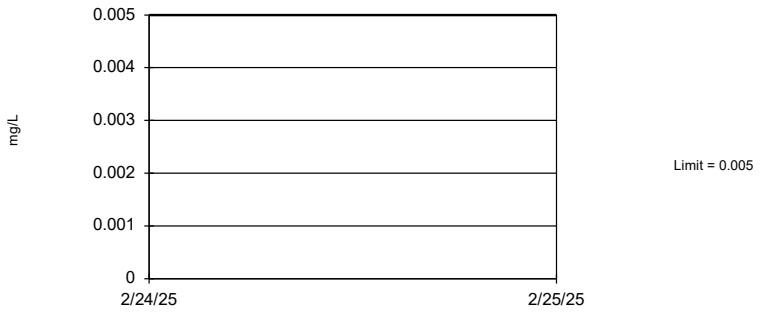
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 467 background values. 87.58% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Antimony Analysis Run 5/20/2025 9:47 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



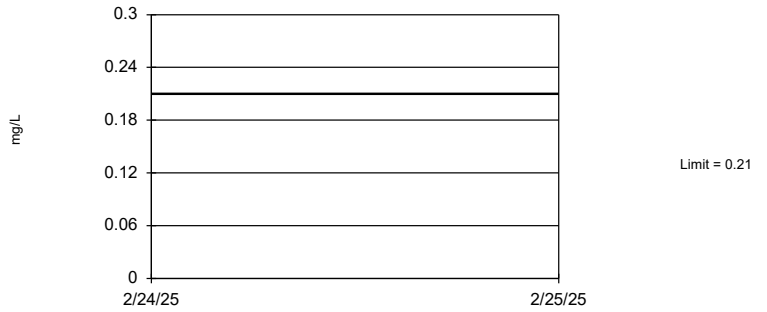
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 515 background values. 74.56% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Arsenic Analysis Run 5/20/2025 9:47 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



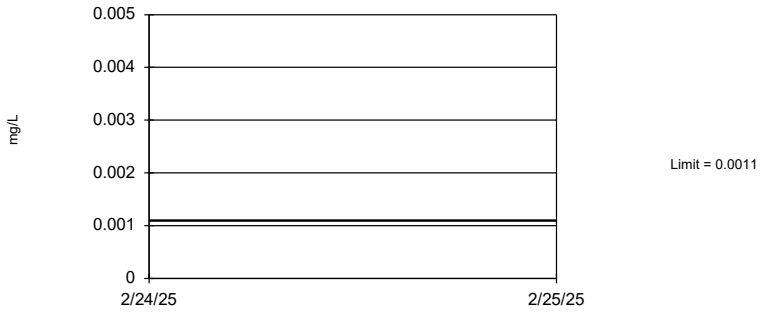
Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 515 background values. 2.136% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Barium Analysis Run 5/20/2025 9:47 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



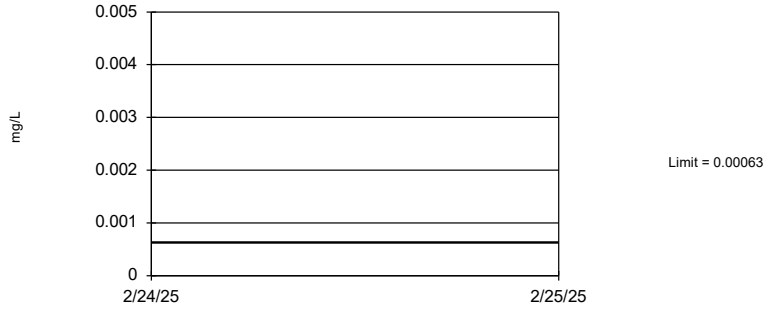
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 499 background values. 80.36% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Beryllium Analysis Run 5/20/2025 9:47 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



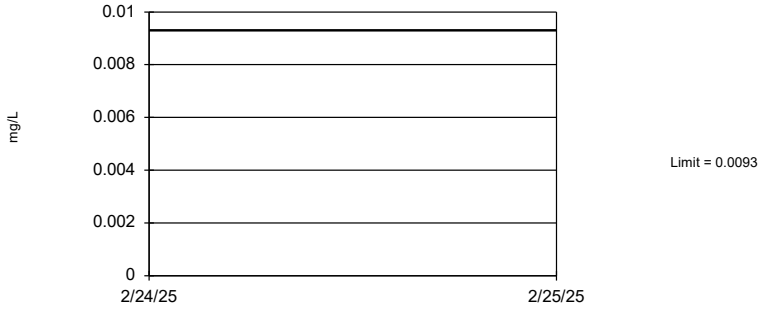
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 499 background values. 94.79% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Cadmium Analysis Run 5/20/2025 9:47 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 467 background values. 80.51% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Chromium Analysis Run 5/20/2025 9:47 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 508 background values. 69.49% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Cobalt Analysis Run 5/20/2025 9:47 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



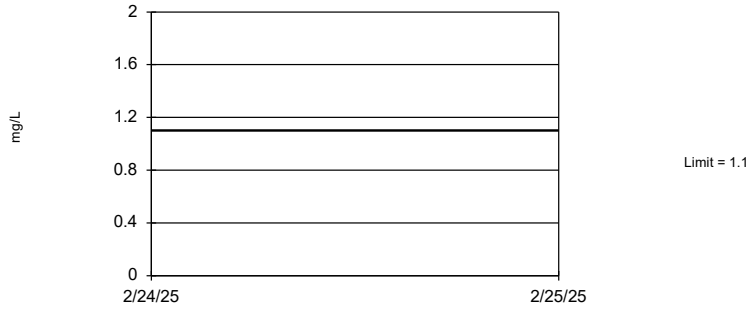
Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 493 background values. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Combined Radium 226 + 228 Analysis Run 5/20/2025 9:47 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



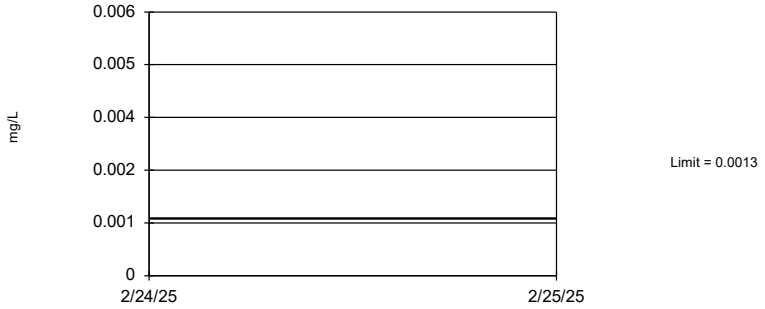
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 518 background values. 54.25% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Fluoride Analysis Run 5/20/2025 9:47 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 469 background values. 87.85% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Lead Analysis Run 5/20/2025 9:47 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



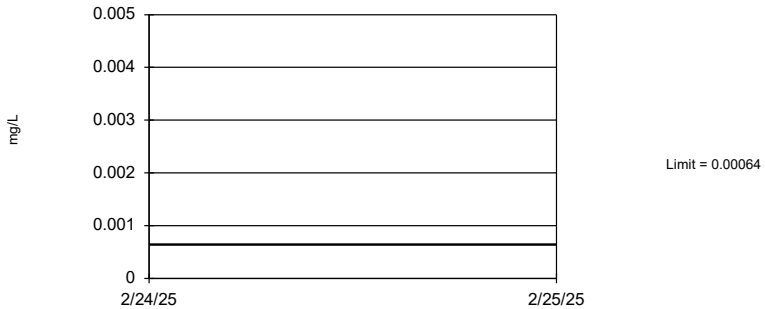
Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 493 background values. 27.18% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Lithium Analysis Run 5/20/2025 9:47 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 423 background values. 87.23% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Mercury Analysis Run 5/20/2025 9:47 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 457 background values. 61.49% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Molybdenum Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 497 background values. 92.96% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Selenium Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 431 background values. 97.22% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Thallium Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

Tolerance Limit

Constituent: Antimony (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-30I (bg)
5/1/2007	<0.003								
9/12/2007	<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	<0.003					
6/2/2016					<0.003	<0.003	<0.003	<0.003	<0.003
6/6/2016									
6/7/2016									
7/21/2016	0.0007 (J)								
7/25/2016		0.001 (J)	<0.003						0.0007 (J)
7/26/2016				0.001 (J)	<0.003	0.002 (J)	0.0003 (J)	0.0005 (J)	
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016	<0.003								
9/13/2016		<0.003		0.001 (J)					
9/14/2016			<0.003		<0.003		<0.003		
9/15/2016						0.0027 (J)		<0.003	
9/16/2016									
9/19/2016									<0.003
11/1/2016			<0.003	0.0015 (J)		<0.003			<0.003
11/2/2016					<0.003		<0.003	<0.003	
11/3/2016									
11/4/2016		<0.003							
11/14/2016									
11/28/2016	0.0014 (J)								
12/15/2016									
1/10/2017								<0.003	
1/11/2017			<0.003	<0.003		<0.003			
1/12/2017					<0.003				
1/13/2017							<0.003		
1/16/2017		<0.003							<0.003
2/21/2017									<0.003
2/22/2017	<0.003								
2/24/2017									
3/1/2017			<0.003						
3/2/2017		<0.003		0.0004 (J)		0.0008 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Antimony (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-30I (bg)
3/3/2017									
3/6/2017							<0.003		
3/7/2017					<0.003				
3/8/2017								<0.003	
4/26/2017			<0.003			<0.003		<0.003	<0.003
4/27/2017		0.0017 (J)		0.0004 (J)					
4/28/2017									
5/1/2017					<0.003		<0.003		
5/2/2017									
5/8/2017	<0.003								
5/26/2017									
6/27/2017		<0.003		<0.003	<0.003				
6/28/2017			<0.003			<0.003			
6/29/2017							<0.003		
6/30/2017								<0.003	<0.003
7/11/2017									
7/17/2017	<0.003								
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017	<0.003								
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018	<0.003								
2/20/2018									
3/27/2018		<0.003						<0.003	<0.003
3/28/2018			<0.003			<0.003			
3/29/2018				<0.003	<0.003		<0.003		
4/2/2018									
4/3/2018									
6/28/2018									
8/6/2018	<0.003								
8/7/2018									
9/19/2018									
9/24/2018									
2/25/2019	<0.003								
2/26/2019								<0.003	<0.003
2/27/2019		<0.003	<0.003	<0.003		<0.003			
3/4/2019					<0.003		<0.003		
3/5/2019									
3/6/2019									
4/2/2019									
4/3/2019					<0.003		<0.003		
6/12/2019	<0.003								
8/19/2019	<0.003								
8/20/2019									
8/21/2019									
9/24/2019					<0.003				
9/25/2019							<0.003		
9/26/2019									
10/8/2019	<0.003								

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Antimony (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-30I (bg)
2/10/2020		<0.003		0.00088 (J)					
2/11/2020			<0.003						
2/12/2020					<0.003	<0.003	<0.003	<0.003	<0.003
3/17/2020	<0.003								
3/18/2020		0.0004 (J)						<0.003	
3/19/2020			<0.003	<0.003		0.00064 (J)			<0.003
3/24/2020					<0.003				
3/25/2020							<0.003		
8/26/2020	0.00042 (J)								
8/27/2020									
9/22/2020	0.00044 (J)				<0.003		<0.003		
9/23/2020		<0.003	<0.003	<0.003		<0.003			
9/24/2020									<0.003
9/25/2020								<0.003	
2/8/2021					<0.003				
2/9/2021							<0.003		
2/10/2021			<0.003			<0.003		<0.003	
2/11/2021									<0.003
2/12/2021		<0.003		<0.003					
3/1/2021									<0.003
3/2/2021	<0.003				<0.003			<0.003	
3/3/2021		<0.003	<0.003	<0.003		<0.003	<0.003		
3/4/2021									
8/19/2021		<0.003		<0.003		<0.003		<0.003	<0.003
8/20/2021	<0.003								
8/26/2021					<0.003		<0.003		
8/27/2021			<0.003						
9/1/2021									
9/3/2021									
2/8/2022	<0.003								
2/9/2022		<0.003	<0.003	<0.003		0.0018 (J)			
2/10/2022					<0.003			<0.003	
2/11/2022							<0.003		<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		
8/15/2023	<0.003	<0.003		<0.003	<0.003	<0.003	<0.003	<0.003	
8/16/2023			<0.003						<0.003
2/20/2024	0.0026 (J)	<0.003	<0.003	0.0023 (J)	<0.003	<0.003	0.00061 (J)		<0.003
2/23/2024								<0.003	
8/20/2024		<0.003	<0.003	0.00088 (J)	<0.003	<0.003	<0.003	<0.003	<0.003
8/21/2024									
2/25/2025		<0.003	<0.003	<0.003	<0.003	0.00072 (J)	<0.003	<0.003	<0.003

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Antimony (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-5I (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)
5/1/2007									
9/12/2007									
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									
6/2/2016	<0.003								
6/6/2016		<0.003	<0.003						
6/7/2016				<0.003	<0.003	<0.003			
7/21/2016									
7/25/2016									
7/26/2016	<0.003								
7/27/2016		<0.003	0.0005 (J)		<0.003	<0.003			
7/28/2016				<0.003					
8/30/2016							0.0028 (J)		
8/31/2016									
9/13/2016									
9/14/2016	<0.003							<0.003	
9/15/2016									
9/16/2016		<0.003			<0.003				
9/19/2016			<0.003	0.001 (J)		<0.003			
11/1/2016									
11/2/2016						<0.003			
11/3/2016		<0.003	<0.003	<0.003	<0.003				
11/4/2016	<0.003							<0.003	
11/14/2016							<0.003		
11/28/2016									
12/15/2016								0.0012 (J)	
1/10/2017									
1/11/2017		<0.003	<0.003		<0.003				
1/12/2017	<0.003								
1/13/2017				<0.003		<0.003			
1/16/2017								<0.003	
2/21/2017									
2/22/2017									
2/24/2017							<0.003		
3/1/2017		<0.003	<0.003						
3/2/2017					<0.003				

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Antimony (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-5I (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)
3/3/2017								<0.003	
3/6/2017				0.0005 (J)		<0.003			
3/7/2017	<0.003								
3/8/2017									
4/26/2017		<0.003	<0.003	<0.003		<0.003			
4/27/2017									
4/28/2017								0.0015 (J)	
5/1/2017									
5/2/2017	<0.003				<0.003				
5/8/2017							0.0004 (J)		
5/26/2017								0.0005 (J)	
6/27/2017	<0.003								
6/28/2017		<0.003	<0.003					<0.003	
6/29/2017				<0.003	<0.003	<0.003			
6/30/2017									
7/11/2017							0.0006 (J)		
7/17/2017									
10/10/2017							<0.003		
10/11/2017									0.0006 (J)
10/12/2017									
10/16/2017									
11/20/2017									<0.003
1/10/2018									
1/11/2018									<0.003
2/19/2018									
2/20/2018									<0.003
3/27/2018									
3/28/2018		<0.003	<0.003		<0.003			<0.003	
3/29/2018	<0.003			<0.003		<0.003			
4/2/2018							<0.003		
4/3/2018									<0.003
6/28/2018									<0.003
8/6/2018									
8/7/2018									<0.003
9/19/2018							<0.003		
9/24/2018									<0.003
2/25/2019									
2/26/2019									
2/27/2019								<0.003	
3/4/2019	<0.003								
3/5/2019		<0.003		0.0011 (J)	<0.003	<0.003			
3/6/2019			<0.003						
4/2/2019				0.0011 (J)	<0.003				
4/3/2019	<0.003	<0.003	<0.003			<0.003			
6/12/2019									
8/19/2019									
8/20/2019							<0.003		
8/21/2019									<0.003
9/24/2019	<0.003			0.0035					
9/25/2019					<0.003	<0.003			
9/26/2019		<0.003	0.00056 (J)						
10/8/2019									

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Antimony (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-5I (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)
2/10/2020									
2/11/2020		<0.003	<0.003		<0.003			0.00036 (J)	
2/12/2020	<0.003			0.0015 (J)		<0.003			<0.003
3/17/2020									
3/18/2020									
3/19/2020								0.0003 (J)	
3/24/2020	<0.003	<0.003	<0.003	0.0017 (J)	<0.003	<0.003			
3/25/2020									0.0014 (J)
8/26/2020									
8/27/2020							0.00048 (J)		
9/22/2020	<0.003						<0.003		
9/23/2020		<0.003	<0.003		<0.003			<0.003	
9/24/2020				0.0047		<0.003			<0.003
9/25/2020									
2/8/2021	<0.003								
2/9/2021		<0.003	<0.003	0.0013 (J)	<0.003	0.00032 (J)			
2/10/2021								0.0013 (J)	<0.003
2/11/2021									
2/12/2021									
3/1/2021							0.00048 (J)		
3/2/2021	<0.003								
3/3/2021		0.00067 (J)	<0.003		<0.003	<0.003		<0.003	
3/4/2021				0.0014 (J)					<0.003
8/19/2021							<0.003		
8/20/2021									
8/26/2021	<0.003	<0.003							<0.003
8/27/2021			<0.003		<0.003	<0.003		<0.003	
9/1/2021				<0.003					
9/3/2021									
2/8/2022							<0.003		<0.003
2/9/2022		<0.003	<0.003	<0.003	<0.003	<0.003		<0.003	
2/10/2022	<0.003								
2/11/2022									
8/30/2022	<0.003	<0.003	<0.003	0.0046	<0.003			<0.003	
8/31/2022						<0.003	<0.003		<0.003
2/7/2023		<0.003	<0.003	<0.003	0.0013 (J)	<0.003		<0.003	<0.003
2/8/2023							<0.003		
2/9/2023	<0.003								
8/15/2023	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
8/16/2023									
2/20/2024	<0.003		<0.003	0.0013 (J)	<0.003	<0.003	<0.003	0.00067 (J)	<0.003
2/23/2024		<0.003							
8/20/2024	<0.003		<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	
8/21/2024		<0.003							<0.003
2/25/2025	<0.003	<0.003	<0.003	0.00054 (J)	<0.003	<0.003	<0.003	<0.003	<0.003

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Antimony (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-40 (bg)
5/1/2007	
9/12/2007	
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	
6/2/2016	
6/6/2016	
6/7/2016	
7/21/2016	
7/25/2016	
7/26/2016	
7/27/2016	
7/28/2016	
8/30/2016	
8/31/2016	
9/13/2016	
9/14/2016	
9/15/2016	
9/16/2016	
9/19/2016	
11/1/2016	
11/2/2016	
11/3/2016	
11/4/2016	
11/14/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	
1/12/2017	
1/13/2017	
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
3/1/2017	
3/2/2017	

Tolerance Limit

Constituent: Antimony (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-40 (bg)
3/3/2017	
3/6/2017	
3/7/2017	
3/8/2017	
4/26/2017	
4/27/2017	
4/28/2017	
5/1/2017	
5/2/2017	
5/8/2017	
5/26/2017	
6/27/2017	
6/28/2017	
6/29/2017	
6/30/2017	
7/11/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/12/2017	<0.003
10/16/2017	
11/20/2017	<0.003
1/10/2018	<0.003
1/11/2018	
2/19/2018	<0.003
2/20/2018	
3/27/2018	
3/28/2018	
3/29/2018	
4/2/2018	
4/3/2018	<0.003
6/28/2018	<0.003
8/6/2018	
8/7/2018	<0.003
9/19/2018	
9/24/2018	<0.003
2/25/2019	
2/26/2019	
2/27/2019	
3/4/2019	
3/5/2019	
3/6/2019	
4/2/2019	
4/3/2019	
6/12/2019	
8/19/2019	
8/20/2019	
8/21/2019	<0.003
9/24/2019	
9/25/2019	
9/26/2019	
10/8/2019	

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Antimony (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-40 (bg)
2/10/2020	
2/11/2020	
2/12/2020	<0.003
3/17/2020	
3/18/2020	
3/19/2020	
3/24/2020	<0.003
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	
9/24/2020	<0.003
9/25/2020	
2/8/2021	
2/9/2021	
2/10/2021	<0.003
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	
3/4/2021	<0.003
8/19/2021	
8/20/2021	
8/26/2021	
8/27/2021	
9/1/2021	
9/3/2021	<0.003
2/8/2022	<0.003
2/9/2022	
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	
8/15/2023	<0.003
8/16/2023	
2/20/2024	<0.003
2/23/2024	
8/20/2024	
8/21/2024	<0.003
2/25/2025	<0.003

Tolerance Limit

Constituent: Arsenic (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-5I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-14S (bg)
5/1/2007	<0.005								
9/12/2007	<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	0.0021					
6/2/2016					<0.005	<0.005	<0.005	0.00071 (J)	<0.005
6/6/2016									
6/7/2016									
7/21/2016	<0.005								
7/25/2016		<0.005	<0.005			<0.005			
7/26/2016				0.0016 (J)	<0.005		<0.005	0.001 (J)	<0.005
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016	<0.005								
9/13/2016		<0.005		<0.005					
9/14/2016			<0.005		<0.005			<0.005	
9/15/2016							<0.005		<0.005
9/16/2016									
9/19/2016						<0.005			
11/1/2016			<0.005	<0.005		<0.005	<0.005		
11/2/2016								<0.005	<0.005
11/3/2016									
11/4/2016		<0.005			<0.005				
11/14/2016									
11/28/2016	<0.005								
12/15/2016									
1/10/2017									<0.005
1/11/2017			<0.005	0.0017 (J)			<0.005		
1/12/2017					<0.005			<0.005	
1/13/2017									
1/16/2017		<0.005				<0.005			
2/21/2017						<0.005			
2/22/2017	<0.005								
2/24/2017									
3/1/2017			0.0004 (J)						
3/2/2017		<0.005		0.0014 (J)			<0.005		

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Arsenic (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-5I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-14S (bg)
3/3/2017									
3/6/2017									
3/7/2017					<0.005			0.0012 (J)	
3/8/2017									<0.005
4/26/2017			0.0014 (J)			<0.005	0.0009 (J)		0.0007 (J)
4/27/2017		<0.005		0.0018 (J)					
4/28/2017									
5/1/2017								0.001 (J)	
5/2/2017					0.0006 (J)				
5/8/2017	<0.005								
5/26/2017									
6/27/2017		<0.005		0.0018 (J)	<0.005			0.0019 (J)	
6/28/2017			0.0011 (J)				0.0007 (J)		
6/29/2017									
6/30/2017						<0.005			<0.005
7/11/2017									
7/17/2017	<0.005								
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017	<0.005								
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018	<0.005								
2/20/2018									
3/27/2018		<0.005				<0.005			<0.005
3/28/2018			<0.005				<0.005		
3/29/2018				0.0017 (J)	<0.005			0.0006 (J)	
4/2/2018									
4/3/2018									
6/5/2018				0.0013 (J)					
6/6/2018		<0.005						0.0013 (J)	
6/7/2018					<0.005		<0.005		
6/8/2018			<0.005						<0.005
6/11/2018						<0.005			
6/28/2018									
8/6/2018	<0.005								
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					<0.005			0.0014 (J)	
10/1/2018		<0.005	<0.005	0.0016 (J)			<0.005		<0.005
10/2/2018						<0.005			
2/25/2019	<0.005								
2/26/2019						<0.005			<0.005
2/27/2019		<0.005	<0.005	0.0015 (J)			<0.005		
3/4/2019					<0.005			<0.005	
3/5/2019									
3/6/2019									
3/28/2019		<0.005		0.00072 (J)					

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Arsenic (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-5I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-14S (bg)
3/29/2019									<0.005
4/1/2019			<0.005			<0.005	<0.005		
4/2/2019									
4/3/2019					<0.005			<0.005	
6/12/2019	0.00038 (J)								
8/19/2019	0.00095 (J)								
8/20/2019									
8/21/2019									
9/24/2019		<0.005		0.0014 (J)	<0.005			0.00043 (J)	
9/25/2019			<0.005			<0.005	<0.005		<0.005
9/26/2019									
10/8/2019	<0.005								
10/9/2019									
2/10/2020		0.0005 (J)		0.0026 (J)					
2/11/2020			0.0041 (J)						
2/12/2020					0.002 (J)	0.0032 (J)	0.0038 (J)	0.0046 (J)	<0.005
3/17/2020	<0.005								
3/18/2020		<0.005							<0.005
3/19/2020			<0.005	0.00095 (J)		<0.005	<0.005		
3/24/2020					<0.005			0.00065 (J)	
3/25/2020									
8/26/2020	<0.005								
8/27/2020									
9/22/2020	<0.005				<0.005			0.001 (J)	
9/23/2020		<0.005	<0.005	0.0011 (J)			<0.005		
9/24/2020						<0.005			
9/25/2020									<0.005
2/8/2021					<0.005			<0.005	
2/9/2021									
2/10/2021			0.00078 (J)				0.00094 (J)		<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			<0.005	<0.005
3/3/2021		<0.005	<0.005	<0.005			<0.005		
3/4/2021									
8/19/2021		<0.005		<0.005		<0.005	<0.005		<0.005
8/20/2021	<0.005								
8/26/2021					<0.005			0.0016 (J)	
8/27/2021			<0.005						
9/1/2021									
9/3/2021									
2/8/2022	0.0033 (J)								
2/9/2022		0.0033 (J)	0.0018 (J)	0.0031 (J)			0.002 (J)		
2/10/2022					0.0016 (J)			0.004 (J)	0.0016 (J)
2/11/2022						0.0014 (J)			
8/30/2022	0.0024 (J)			<0.005	<0.005			0.0031 (J)	
8/31/2022		<0.005	<0.005			<0.005	0.0028 (J)		<0.005
2/7/2023	<0.005	<0.005		<0.005				0.003 (J)	
2/8/2023			0.0024 (J)			<0.005	0.003 (J)		<0.005
2/9/2023					<0.005				
8/15/2023	<0.005	<0.005		<0.005	<0.005		<0.005	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Arsenic (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-5I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-14S (bg)
8/16/2023			<0.005			<0.005			
2/20/2024	0.0015 (J)	<0.005	0.0013 (J)	<0.005	<0.005	<0.005	0.0027 (J)	0.003 (J)	
2/23/2024									<0.005
8/20/2024		<0.005	<0.005	0.00099 (J)	<0.005	<0.005	<0.005	0.0012 (J)	<0.005
8/21/2024									
2/25/2025		<0.005	<0.005	0.0016 (J)	<0.005	<0.005	<0.005	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Arsenic (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-4I (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)
5/1/2007									
9/12/2007									
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									
6/2/2016	<0.005								
6/6/2016		<0.005	<0.005						
6/7/2016				<0.005	<0.005	<0.005			
7/21/2016									
7/25/2016									
7/26/2016	<0.005								
7/27/2016		<0.005	<0.005	<0.005	<0.005				
7/28/2016						<0.005			
8/30/2016							<0.005		
8/31/2016									
9/13/2016									
9/14/2016	<0.005							<0.005	
9/15/2016									
9/16/2016			<0.005	<0.005					
9/19/2016		<0.005			<0.005	<0.005			
11/1/2016									
11/2/2016	<0.005				<0.005				
11/3/2016		<0.005	<0.005	<0.005		<0.005			
11/4/2016								0.0017 (J)	
11/14/2016							<0.005		
11/28/2016									
12/15/2016								0.0023 (J)	
1/10/2017									
1/11/2017		<0.005	<0.005	<0.005					
1/12/2017									
1/13/2017	<0.005				<0.005	<0.005			
1/16/2017								0.0018 (J)	
2/21/2017									
2/22/2017									
2/24/2017							<0.005		
3/1/2017		<0.005	<0.005						
3/2/2017				<0.005					

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Arsenic (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-4I (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)
3/3/2017								0.0016 (J)	
3/6/2017	<0.005				<0.005	0.0017 (J)			
3/7/2017									
3/8/2017									
4/26/2017		0.0008 (J)	<0.005		<0.005	0.0017 (J)			
4/27/2017									
4/28/2017								0.002 (J)	
5/1/2017	<0.005								
5/2/2017				<0.005					
5/8/2017							<0.005		
5/26/2017								0.0005 (J)	
6/27/2017									
6/28/2017		<0.005	<0.005					0.0016 (J)	
6/29/2017	<0.005			<0.005	<0.005	0.0012 (J)			
6/30/2017									
7/11/2017							<0.005		
7/17/2017									
10/10/2017							0.0007 (J)		
10/11/2017									0.0009 (J)
10/12/2017									
10/16/2017									
11/20/2017									<0.005
1/10/2018									
1/11/2018									<0.005
2/19/2018									
2/20/2018									<0.005
3/27/2018									
3/28/2018		<0.005	0.00061 (J)	<0.005				0.0013 (J)	
3/29/2018	<0.005				<0.005	0.0015 (J)			
4/2/2018							<0.005		
4/3/2018									<0.005
6/5/2018						0.0013 (J)			
6/6/2018					<0.005				
6/7/2018	0.00059 (J)	0.00066 (J)						0.00082 (J)	
6/8/2018									
6/11/2018			<0.005	<0.005					
6/28/2018									<0.005
8/6/2018									
8/7/2018									<0.005
9/19/2018							0.00072 (J)		
9/24/2018									<0.005
9/25/2018		<0.005	<0.005	<0.005	<0.005	0.0022 (J)			
9/26/2018	<0.005								
10/1/2018								0.0011 (J)	
10/2/2018									
2/25/2019									
2/26/2019									
2/27/2019								0.001 (J)	
3/4/2019	<0.005								
3/5/2019			<0.005	<0.005	<0.005	0.0013 (J)			
3/6/2019		<0.005							
3/28/2019									

Tolerance Limit

Constituent: Arsenic (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-4I (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)
3/29/2019								0.00063 (J)	
4/1/2019									
4/2/2019				<0.005		0.00096 (J)			
4/3/2019	<0.005	<0.005	<0.005		<0.005				
6/12/2019									
8/19/2019									
8/20/2019							<0.005		
8/21/2019									0.00058 (J)
9/24/2019						0.0026 (J)		<0.005	
9/25/2019	<0.005			<0.005	<0.005				
9/26/2019		<0.005	<0.005						
10/8/2019							<0.005		
10/9/2019									0.00063 (J)
2/10/2020									
2/11/2020		0.0014 (J)	0.0026 (J)	0.0022 (J)				0.0044 (J)	
2/12/2020	<0.005				<0.005	0.0025 (J)			0.00058 (J)
3/17/2020							<0.005		
3/18/2020									
3/19/2020								0.00066 (J)	
3/24/2020		<0.005	<0.005	<0.005	<0.005	0.0013 (J)			
3/25/2020	<0.005								0.0012 (J)
8/26/2020									
8/27/2020							<0.005		
9/22/2020	<0.005						<0.005		
9/23/2020		<0.005	<0.005	<0.005				0.001 (J)	
9/24/2020					<0.005	0.0014 (J)			<0.005
9/25/2020									
2/8/2021									
2/9/2021	<0.005	<0.005	<0.005	<0.005	<0.005	0.001 (J)			
2/10/2021								<0.005	<0.005
2/11/2021									
2/12/2021									
3/1/2021							<0.005		
3/2/2021									
3/3/2021	<0.005	<0.005	<0.005	<0.005	<0.005			0.00098 (J)	
3/4/2021						0.00078 (J)			<0.005
8/19/2021							<0.005		
8/20/2021									
8/26/2021	<0.005		<0.005						<0.005
8/27/2021		<0.005		<0.005	<0.005			<0.005	
9/1/2021						<0.005			
9/3/2021									
2/8/2022							0.0027 (J)		0.0034 (J)
2/9/2022		0.0022 (J)	0.0024 (J)	0.0024 (J)	0.0021 (J)	0.0036 (J)		0.0037 (J)	
2/10/2022									
2/11/2022	0.0014 (J)								
8/30/2022		<0.005	<0.005	<0.005		0.0022 (J)		0.0027 (J)	
8/31/2022	<0.005				<0.005		<0.005		0.0029 (J)
2/7/2023		<0.005	<0.005	<0.005	<0.005	0.0028 (J)		<0.005	0.0029 (J)
2/8/2023							<0.005		
2/9/2023	<0.005								
8/15/2023	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Arsenic (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-4I (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)
8/16/2023									
2/20/2024	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	0.0019 (J)	0.002 (J)
2/23/2024			<0.005						
8/20/2024	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	
8/21/2024			<0.005						0.0027 (J)
2/25/2025	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Arsenic (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-40 (bg)
5/1/2007	
9/12/2007	
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	
6/2/2016	
6/6/2016	
6/7/2016	
7/21/2016	
7/25/2016	
7/26/2016	
7/27/2016	
7/28/2016	
8/30/2016	
8/31/2016	
9/13/2016	
9/14/2016	
9/15/2016	
9/16/2016	
9/19/2016	
11/1/2016	
11/2/2016	
11/3/2016	
11/4/2016	
11/14/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	
1/12/2017	
1/13/2017	
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
3/1/2017	
3/2/2017	

Tolerance Limit

Constituent: Arsenic (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-40 (bg)
3/3/2017	
3/6/2017	
3/7/2017	
3/8/2017	
4/26/2017	
4/27/2017	
4/28/2017	
5/1/2017	
5/2/2017	
5/8/2017	
5/26/2017	
6/27/2017	
6/28/2017	
6/29/2017	
6/30/2017	
7/11/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/12/2017	<0.005
10/16/2017	
11/20/2017	<0.005
1/10/2018	<0.005
1/11/2018	
2/19/2018	<0.005
2/20/2018	
3/27/2018	
3/28/2018	
3/29/2018	
4/2/2018	
4/3/2018	<0.005
6/5/2018	
6/6/2018	
6/7/2018	
6/8/2018	
6/11/2018	
6/28/2018	<0.005
8/6/2018	
8/7/2018	<0.005
9/19/2018	
9/24/2018	<0.005
9/25/2018	
9/26/2018	
10/1/2018	
10/2/2018	
2/25/2019	
2/26/2019	
2/27/2019	
3/4/2019	
3/5/2019	
3/6/2019	
3/28/2019	

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Arsenic (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-40 (bg)
3/29/2019	
4/1/2019	
4/2/2019	
4/3/2019	
6/12/2019	
8/19/2019	
8/20/2019	
8/21/2019	<0.005
9/24/2019	
9/25/2019	
9/26/2019	
10/8/2019	
10/9/2019	<0.005
2/10/2020	
2/11/2020	
2/12/2020	0.0034 (J)
3/17/2020	
3/18/2020	
3/19/2020	
3/24/2020	<0.005
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	
9/24/2020	<0.005
9/25/2020	
2/8/2021	
2/9/2021	
2/10/2021	<0.005
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	
3/4/2021	<0.005
8/19/2021	
8/20/2021	
8/26/2021	
8/27/2021	
9/1/2021	
9/3/2021	<0.005
2/8/2022	0.003 (J)
2/9/2022	
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	
8/15/2023	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Arsenic (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-40 (bg)
8/16/2023	
2/20/2024	0.0012 (J)
2/23/2024	
8/20/2024	
8/21/2024	0.0014 (J)
2/25/2025	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Barium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-5I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-14S (bg)
5/1/2007	0.032								
9/12/2007	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		0.012	0.0038	0.008					
6/2/2016					0.019	0.0064	0.01	0.0084	0.0081
6/6/2016									
6/7/2016									
7/21/2016	0.0457								
7/25/2016		0.0091 (J)	0.0031 (J)			0.0071 (J)			
7/26/2016				0.006 (J)	0.0179		0.0088 (J)	0.01	0.0082 (J)
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016	0.0542								
9/13/2016		0.008 (J)		0.0084 (J)					
9/14/2016			0.0027 (J)		0.0181			0.0085 (J)	
9/15/2016							0.009 (J)		0.0087 (J)
9/16/2016									
9/19/2016						0.0069 (J)			
11/1/2016			0.0027 (J)	0.0062 (J)		0.007 (J)	0.0079 (J)		
11/2/2016								0.0091 (J)	0.0082 (J)
11/3/2016									
11/4/2016		0.0067 (J)			0.0165				
11/14/2016									
11/28/2016	0.0529								
12/15/2016									
1/10/2017									0.0086 (J)
1/11/2017			0.0036 (J)	0.0069 (J)			0.0075 (J)		
1/12/2017					0.0199			0.0089 (J)	
1/13/2017									
1/16/2017		0.0096 (J)				0.0071 (J)			
2/21/2017						0.0077 (J)			
2/22/2017	0.0607								
2/24/2017									
3/1/2017			0.0036 (J)						
3/2/2017		0.0112		0.0071 (J)			0.009 (J)		

Tolerance Limit

Constituent: Barium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-5I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-14S (bg)
3/3/2017									
3/6/2017									
3/7/2017					0.0196			0.009 (J)	
3/8/2017									0.0088 (J)
4/26/2017			0.0038 (J)			0.0074 (J)	0.0078 (J)		0.0085 (J)
4/27/2017		0.0106		0.0064 (J)					
4/28/2017									
5/1/2017								0.0083 (J)	
5/2/2017					0.0202				
5/8/2017	0.065								
5/26/2017									
6/27/2017		0.0092 (J)		0.0054 (J)	0.0184			0.0074 (J)	
6/28/2017			0.004 (J)				0.0071 (J)		
6/29/2017									
6/30/2017						0.0076 (J)			0.0081 (J)
7/11/2017									
7/17/2017	0.06								
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017	0.0542								
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018	0.0533								
2/20/2018									
3/27/2018		<0.01				<0.01			<0.01
3/28/2018			<0.01				<0.01		
3/29/2018				<0.01	0.021			<0.01	
4/2/2018									
4/3/2018									
6/5/2018				0.0069 (J)					
6/6/2018		0.0082 (J)						0.008 (J)	
6/7/2018					0.019		0.0068 (J)		
6/8/2018			0.0034 (J)						0.007 (J)
6/11/2018						0.007 (J)			
6/28/2018									
8/6/2018	0.044								
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					0.019			0.0075 (J)	
10/1/2018		0.0084 (J)	0.0034 (J)	0.0062 (J)			0.0065 (J)		0.007 (J)
10/2/2018						0.0069 (J)			
2/25/2019	0.045								
2/26/2019						0.007 (J)			0.0067 (J)
2/27/2019		0.008 (J)	0.0034 (J)	0.0074 (J)			0.0059 (J)		
3/4/2019					0.019			0.0077 (J)	
3/5/2019									
3/6/2019									
3/28/2019		0.0082 (J)		0.0082 (J)					

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Barium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-5I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-14S (bg)
3/29/2019									0.0066 (J)
4/1/2019			0.003 (J)			0.0072 (J)	0.0064 (J)		
4/2/2019									
4/3/2019					0.023			0.0087 (J)	
6/12/2019	0.063								
8/19/2019	0.065								
8/20/2019									
8/21/2019									
9/24/2019		0.0086 (J)		0.0072 (J)	0.019			0.0075 (J)	
9/25/2019			0.005 (J)			0.0066 (J)	0.0059 (J)		0.0071 (J)
9/26/2019									
10/8/2019	0.058								
10/9/2019									
2/10/2020		0.0091 (J)		0.0066 (J)					
2/11/2020			0.0031 (J)						
2/12/2020					0.021	0.0073 (J)	0.0062 (J)	0.0079 (J)	0.007 (J)
3/17/2020	0.047								
3/18/2020		0.0084 (J)							0.0076 (J)
3/19/2020			0.0029 (J)	0.0076 (J)		0.0074 (J)	0.0072 (J)		
3/24/2020					0.021			0.0076 (J)	
3/25/2020									
8/26/2020	0.044								
8/27/2020									
9/22/2020	0.045				0.019			0.0076 (J)	
9/23/2020		0.0079 (J)	0.0039 (J)	0.0068 (J)			0.0051 (J)		
9/24/2020						0.0062 (J)			
9/25/2020									0.0073 (J)
2/8/2021					0.02			0.0079 (J)	
2/9/2021									
2/10/2021			0.0029 (J)				0.0059 (J)		0.0078 (J)
2/11/2021						0.0077 (J)			
2/12/2021		0.009 (J)		0.0057 (J)					
3/1/2021						0.007			
3/2/2021	0.039				0.019			0.014	0.0076
3/3/2021		0.0094	0.0031 (J)	0.0068			0.0064		
3/4/2021									
8/19/2021		0.0079		0.0065		0.0071	0.0052		0.0077
8/20/2021	0.036								
8/26/2021					0.019			0.0092	
8/27/2021			0.0039 (J)						
9/1/2021									
9/3/2021									
2/8/2022	0.037								
2/9/2022		0.0088	0.0031 (J)	0.0067			0.0051		
2/10/2022					0.02			0.0084	0.0088
2/11/2022						0.0077			
8/30/2022	0.031			0.0066	0.017			0.0079	
8/31/2022		0.0074	0.003 (J)			0.0068	0.0048 (J)		0.0075
2/7/2023	0.034	0.21		0.14				0.0075	
2/8/2023			0.0029 (J)			0.0066	0.0048 (J)		0.0089
2/9/2023					0.019				
8/15/2023	0.03	0.0078		0.0059	0.018		0.0046 (J)	0.0074	0.0079

Tolerance Limit

Constituent: Barium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-5I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-14S (bg)
8/16/2023			0.0037 (J)			0.0066			
2/20/2024	0.035	0.004 (J)	0.0032 (J)	0.0062	0.019	0.0064	0.0045 (J)	0.0078	
2/23/2024									0.0096
8/20/2024		0.0072	0.0027 (J)	0.0061	0.018	0.0067	0.0044 (J)	0.0066	0.0075
8/21/2024									
2/25/2025		0.0083	0.0036 (J)	0.0071	0.02	0.0076	0.0059	0.0081	0.0084

Tolerance Limit

Constituent: Barium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-4I (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)
5/1/2007									
9/12/2007									
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									
6/2/2016	0.013								
6/6/2016		0.028	0.019						
6/7/2016				0.012	0.014	0.0058			
7/21/2016									
7/25/2016									
7/26/2016	0.0158								
7/27/2016		0.0294	0.0167	0.0126	0.0141				
7/28/2016						0.0068 (J)			
8/30/2016							0.0413		
8/31/2016									
9/13/2016									
9/14/2016	0.0143							0.0037 (J)	
9/15/2016									
9/16/2016			0.0168	0.0127					
9/19/2016		0.0247			0.0155	0.0071 (J)			
11/1/2016									
11/2/2016	0.0148				0.0157				
11/3/2016		0.0248	0.0159	0.0128		0.0092 (J)			
11/4/2016								0.0059 (J)	
11/14/2016							0.0383		
11/28/2016									
12/15/2016								0.0056 (J)	
1/10/2017									
1/11/2017		0.0266	0.0162	0.0142					
1/12/2017									
1/13/2017	0.0146				0.0158	0.0105			
1/16/2017								0.0049 (J)	
2/21/2017									
2/22/2017									
2/24/2017							0.0351		
3/1/2017		0.0275	0.0195						
3/2/2017				0.0155					

Tolerance Limit

Constituent: Barium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-4I (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)
3/3/2017								0.0046 (J)	
3/6/2017	0.0141				0.0163	0.0105			
3/7/2017									
3/8/2017									
4/26/2017		0.024	0.0182		0.0177	0.011			
4/27/2017									
4/28/2017								0.0039 (J)	
5/1/2017	0.0149								
5/2/2017				0.0138					
5/8/2017							0.0251		
5/26/2017								0.0034 (J)	
6/27/2017									
6/28/2017		0.0237	0.018					0.003 (J)	
6/29/2017	0.0154			0.0128	0.017	0.0109			
6/30/2017									
7/11/2017							0.0233		
7/17/2017									
10/10/2017							0.0207		
10/11/2017									0.0092 (J)
10/12/2017									
10/16/2017									
11/20/2017									0.0081 (J)
1/10/2018									
1/11/2018									0.0077 (J)
2/19/2018									
2/20/2018									<0.01
3/27/2018									
3/28/2018		0.024	0.021	0.014				<0.01	
3/29/2018	0.014				0.014	<0.01			
4/2/2018							0.022		
4/3/2018									<0.01
6/5/2018						0.011			
6/6/2018					0.015				
6/7/2018	0.014	0.023						0.0037 (J)	
6/8/2018									
6/11/2018			0.019	0.013					
6/28/2018									0.0078 (J)
8/6/2018									
8/7/2018									0.0078 (J)
9/19/2018							0.023		
9/24/2018									0.0071 (J)
9/25/2018		0.023	0.019	0.014	0.015	0.011			
9/26/2018	0.016								
10/1/2018								0.0038 (J)	
10/2/2018									
2/25/2019									
2/26/2019									
2/27/2019								0.0035 (J)	
3/4/2019	0.016								
3/5/2019			0.02	0.015	0.016	0.011			
3/6/2019		0.024							
3/28/2019									

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Barium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-4I (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)
3/29/2019								0.0039 (J)	
4/1/2019									
4/2/2019				0.016		0.011			
4/3/2019	0.017	0.025	0.017		0.018				
6/12/2019									
8/19/2019									
8/20/2019							0.024		
8/21/2019									0.015
9/24/2019						0.011		0.0038 (J)	
9/25/2019	0.015			0.015	0.014				
9/26/2019		0.021	0.017						
10/8/2019							0.025		
10/9/2019									0.013
2/10/2020									
2/11/2020		0.022	0.019	0.015				0.0036 (J)	
2/12/2020	0.012				0.014	0.011			0.011
3/17/2020							0.035		
3/18/2020									
3/19/2020								0.0036 (J)	
3/24/2020		0.021	0.017	0.015	0.015	0.011			
3/25/2020	0.016								0.014
8/26/2020									
8/27/2020							0.027		
9/22/2020	0.013						0.026		
9/23/2020		0.021	0.016	0.015				0.0039 (J)	
9/24/2020					0.015	0.01			0.016
9/25/2020									
2/8/2021									
2/9/2021	0.013	0.023	0.017	0.016	0.015	0.011			
2/10/2021								0.0032 (J)	0.027
2/11/2021									
2/12/2021									
3/1/2021							0.029		
3/2/2021									
3/3/2021	0.014	0.023	0.017	0.017	0.015			0.0041 (J)	
3/4/2021						0.011			0.028
8/19/2021							0.029		
8/20/2021									
8/26/2021	0.012		0.015						0.038
8/27/2021		0.02		0.016	0.013			0.003 (J)	
9/1/2021						0.0099			
9/3/2021									
2/8/2022							0.03		0.041
2/9/2022		0.021	0.014	0.017	0.014	0.011		0.0029 (J)	
2/10/2022									
2/11/2022	0.013								
8/30/2022		0.017	0.012	0.017		0.0085		0.003 (J)	
8/31/2022	0.013				0.011		0.029		0.035
2/7/2023		0.019	0.012	0.017	0.014	0.01		0.0026 (J)	0.03
2/8/2023							0.031		
2/9/2023	0.014								
8/15/2023	0.011	0.02	0.012	0.016	0.012	0.0075	0.032	0.0031 (J)	0.031

Tolerance Limit

Constituent: Barium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-4I (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)
8/16/2023									
2/20/2024	0.014	0.02		0.017	0.013	0.0065	0.031	0.0044 (J)	0.029
2/23/2024			0.013						
8/20/2024	0.012	0.019		0.016	0.012	0.0083	0.031	0.0033 (J)	
8/21/2024			0.015						0.03
2/25/2025	0.013	0.021	0.014	0.018	0.015	0.0077	0.033	0.0037 (J)	0.031

Tolerance Limit

Constituent: Barium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-40 (bg)
5/1/2007	
9/12/2007	
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	
6/2/2016	
6/6/2016	
6/7/2016	
7/21/2016	
7/25/2016	
7/26/2016	
7/27/2016	
7/28/2016	
8/30/2016	
8/31/2016	
9/13/2016	
9/14/2016	
9/15/2016	
9/16/2016	
9/19/2016	
11/1/2016	
11/2/2016	
11/3/2016	
11/4/2016	
11/14/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	
1/12/2017	
1/13/2017	
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
3/1/2017	
3/2/2017	

Tolerance Limit

Constituent: Barium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-40 (bg)
3/3/2017	
3/6/2017	
3/7/2017	
3/8/2017	
4/26/2017	
4/27/2017	
4/28/2017	
5/1/2017	
5/2/2017	
5/8/2017	
5/26/2017	
6/27/2017	
6/28/2017	
6/29/2017	
6/30/2017	
7/11/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/12/2017	0.0328
10/16/2017	
11/20/2017	0.0671
1/10/2018	0.0656
1/11/2018	
2/19/2018	0.06
2/20/2018	
3/27/2018	
3/28/2018	
3/29/2018	
4/2/2018	
4/3/2018	0.045
6/5/2018	
6/6/2018	
6/7/2018	
6/8/2018	
6/11/2018	
6/28/2018	0.047
8/6/2018	
8/7/2018	0.048
9/19/2018	
9/24/2018	0.042
9/25/2018	
9/26/2018	
10/1/2018	
10/2/2018	
2/25/2019	
2/26/2019	
2/27/2019	
3/4/2019	
3/5/2019	
3/6/2019	
3/28/2019	

Tolerance Limit

Constituent: Barium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-40 (bg)
3/29/2019	
4/1/2019	
4/2/2019	
4/3/2019	
6/12/2019	
8/19/2019	
8/20/2019	
8/21/2019	0.035
9/24/2019	
9/25/2019	
9/26/2019	
10/8/2019	
10/9/2019	0.036
2/10/2020	
2/11/2020	
2/12/2020	0.035
3/17/2020	
3/18/2020	
3/19/2020	
3/24/2020	0.033
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	
9/24/2020	0.028
9/25/2020	
2/8/2021	
2/9/2021	
2/10/2021	0.032
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	
3/4/2021	0.032
8/19/2021	
8/20/2021	
8/26/2021	
8/27/2021	
9/1/2021	
9/3/2021	0.035
2/8/2022	0.039
2/9/2022	
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	0.035
2/7/2023	
2/8/2023	0.037
2/9/2023	
8/15/2023	0.034

Tolerance Limit

Constituent: Barium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-40 (bg)
8/16/2023	
2/20/2024	0.033
2/23/2024	
8/20/2024	
8/21/2024	0.033
2/25/2025	0.031

Tolerance Limit

Constituent: Beryllium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-30I (bg)
5/1/2007	<0.0005								
9/12/2007	<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	<0.0005					
6/2/2016					<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
6/6/2016									
6/7/2016									
7/21/2016	<0.0005								
7/25/2016		<0.0005	<0.0005						<0.0005
7/26/2016				<0.0005	<0.0005	<0.0005	<0.0005	0.0002 (J)	
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016	<0.0005								
9/13/2016		<0.0005		<0.0005					
9/14/2016			<0.0005		<0.0005		<0.0005		
9/15/2016						<0.0005		0.0002 (J)	
9/16/2016									
9/19/2016									<0.0005
11/1/2016			<0.0005	<0.0005		<0.0005			<0.0005
11/2/2016					<0.0005		<0.0005	0.0002 (J)	
11/3/2016									
11/4/2016		<0.0005							
11/14/2016									
11/28/2016	<0.0005								
12/15/2016									
1/10/2017								0.0002 (J)	
1/11/2017			<0.0005	<0.0005		<0.0005			
1/12/2017					<0.0005				
1/13/2017							<0.0005		
1/16/2017		<0.0005							<0.0005
2/21/2017									<0.0005
2/22/2017	<0.0005								
2/24/2017									
3/1/2017			<0.0005						
3/2/2017		<0.0005		<0.0005		<0.0005			

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Beryllium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-30I (bg)
3/3/2017									
3/6/2017							<0.0005		
3/7/2017					<0.0005				
3/8/2017								0.0002 (J)	
4/26/2017			<0.0005			<0.0005		0.0002 (J)	<0.0005
4/27/2017		<0.0005		<0.0005					
4/28/2017									
5/1/2017					<0.0005		<0.0005		
5/2/2017									
5/8/2017	<0.0005								
5/26/2017									
6/27/2017		<0.0005		<0.0005	<0.0005				
6/28/2017			<0.0005			<0.0005			
6/29/2017							<0.0005		
6/30/2017								0.0002 (J)	<0.0005
7/11/2017									
7/17/2017	<0.0005								
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017	<0.0005								
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018	<0.0005								
2/20/2018									
3/27/2018		<0.0005						<0.0005	<0.0005
3/28/2018			<0.0005			<0.0005			
3/29/2018				<0.0005	<0.0005		<0.0005		
4/2/2018									
4/3/2018									
6/5/2018									
6/6/2018					<0.0005				
6/7/2018							<0.0005		
6/11/2018									
6/28/2018									
8/6/2018	<0.0005								
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					<0.0005		<0.0005		
2/25/2019	<0.0005								
2/26/2019								0.00016 (J)	7.2E-05 (J)
2/27/2019		<0.0005	<0.0005	<0.0005		<0.0005			
3/4/2019					<0.0005		<0.0005		
3/5/2019									
3/6/2019									
3/28/2019		<0.0005		<0.0005					
3/29/2019								0.00017 (J)	
4/1/2019			<0.0005			<0.0005			<0.0005
4/2/2019									

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Beryllium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-30I (bg)
4/3/2019					<0.0005		<0.0005		
6/12/2019	<0.0005								
8/19/2019	<0.0005								
8/20/2019									
8/21/2019									
9/24/2019		<0.0005		<0.0005	<0.0005				
9/25/2019			<0.0005			<0.0005	<0.0005	0.00018 (J)	<0.0005
9/26/2019									
10/8/2019	<0.0005								
10/9/2019									
2/10/2020		<0.0005		<0.0005					
2/11/2020			<0.0005						
2/12/2020					<0.0005	<0.0005	<0.0005	0.00019 (J)	<0.0005
3/17/2020	<0.0005								
3/18/2020		<0.0005						0.00021 (J)	
3/19/2020			<0.0005	<0.0005		<0.0005			<0.0005
3/24/2020					<0.0005				
3/25/2020							<0.0005		
8/26/2020	<0.0005								
8/27/2020									
9/22/2020	<0.0005				<0.0005		<0.0005		
9/23/2020		<0.0005	5.9E-05 (J)	<0.0005		<0.0005			
9/24/2020									<0.0005
9/25/2020								0.00018 (J)	
2/8/2021					<0.0005				
2/9/2021							<0.0005		
2/10/2021			<0.0005			<0.0005		0.00019 (J)	
2/11/2021									4.7E-05 (J)
2/12/2021		<0.0005		<0.0005					
3/1/2021									<0.0005
3/2/2021	<0.0005				<0.0005			0.00018 (J)	
3/3/2021		<0.0005	<0.0005	<0.0005		<0.0005	<0.0005		
3/4/2021									
8/19/2021		<0.0005		<0.0005		<0.0005		0.00022 (J)	<0.0005
8/20/2021	<0.0005								
8/26/2021					<0.0005		<0.0005		
8/27/2021			<0.0005						
9/1/2021									
9/3/2021									
2/8/2022	<0.0005								
2/9/2022		<0.0005	<0.0005	<0.0005		<0.0005			
2/10/2022					<0.0005			0.00025 (J)	
2/11/2022							<0.0005		<0.0005
8/30/2022	<0.0005			<0.0005	<0.0005				
8/31/2022		<0.0005	<0.0005			<0.0005	<0.0005	0.0002 (J)	<0.0005
2/7/2023	<0.0005	0.00054		0.0011	<0.0005				
2/8/2023			<0.0005			<0.0005		0.00022 (J)	<0.0005
2/9/2023							<0.0005		
8/15/2023	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005	0.00018 (J)	
8/16/2023			<0.0005						<0.0005
2/20/2024	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
2/23/2024								0.00024 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Beryllium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-30I (bg)
8/20/2024		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00021 (J)	<0.0005
8/21/2024									
2/25/2025		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0002 (J)	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Beryllium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-5I (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)
5/1/2007									
9/12/2007									
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									
6/2/2016	<0.0005								
6/6/2016		<0.0005	<0.0005						
6/7/2016				<0.0005	<0.0005	<0.0005			
7/21/2016									
7/25/2016									
7/26/2016	<0.0005								
7/27/2016		<0.0005	<0.0005		<0.0005	<0.0005			
7/28/2016				<0.0005					
8/30/2016							<0.0005		
8/31/2016									
9/13/2016									
9/14/2016	<0.0005							<0.0005	
9/15/2016									
9/16/2016		<0.0005			<0.0005				
9/19/2016			<0.0005	<0.0005		<0.0005			
11/1/2016									
11/2/2016						<0.0005			
11/3/2016		<0.0005	<0.0005	<0.0005	<0.0005				
11/4/2016	<0.0005							<0.0005	
11/14/2016							<0.0005		
11/28/2016									
12/15/2016								<0.0005	
1/10/2017									
1/11/2017		<0.0005	<0.0005		<0.0005				
1/12/2017	<0.0005								
1/13/2017				<0.0005		<0.0005			
1/16/2017								<0.0005	
2/21/2017									
2/22/2017									
2/24/2017							<0.0005		
3/1/2017		<0.0005	<0.0005						
3/2/2017					8E-05 (J)				

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Beryllium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-5I (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)
3/3/2017								<0.0005	
3/6/2017				<0.0005		<0.0005			
3/7/2017	<0.0005								
3/8/2017									
4/26/2017		<0.0005	<0.0005	<0.0005		<0.0005			
4/27/2017									
4/28/2017								<0.0005	
5/1/2017									
5/2/2017	<0.0005				<0.0005				
5/8/2017							7E-05 (J)		
5/26/2017								<0.0005	
6/27/2017	<0.0005								
6/28/2017		<0.0005	<0.0005					<0.0005	
6/29/2017				<0.0005	<0.0005	<0.0005			
6/30/2017									
7/11/2017							<0.0005		
7/17/2017									
10/10/2017							<0.0005		
10/11/2017									<0.0005
10/12/2017									
10/16/2017									
11/20/2017									<0.0005
1/10/2018									
1/11/2018									<0.0005
2/19/2018									
2/20/2018									<0.0005
3/27/2018									
3/28/2018		<0.0005	<0.0005		<0.0005			<0.0005	
3/29/2018	<0.0005			<0.0005		<0.0005			
4/2/2018							<0.0005		
4/3/2018									<0.0005
6/5/2018				<0.0005					
6/6/2018						8E-05 (J)			
6/7/2018	<0.0005		<0.0005						
6/11/2018		5.7E-05 (J)			9E-05 (J)				
6/28/2018									<0.0005
8/6/2018									
8/7/2018									<0.0005
9/19/2018							5.7E-05 (J)		
9/24/2018									<0.0005
9/25/2018		8.2E-05 (J)	<0.0005	<0.0005	8.9E-05 (J)	6.1E-05 (J)			
9/26/2018	<0.0005								
2/25/2019									
2/26/2019									
2/27/2019								<0.0005	
3/4/2019	<0.0005								
3/5/2019		7.9E-05 (J)		<0.0005	9.1E-05 (J)	0.00011 (J)			
3/6/2019			<0.0005						
3/28/2019									
3/29/2019								<0.0005	
4/1/2019									
4/2/2019				<0.0005	9E-05 (J)				

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Beryllium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-5I (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)
4/3/2019	<0.0005	7.5E-05 (J)	<0.0005			6.4E-05 (J)			
6/12/2019									
8/19/2019									
8/20/2019							<0.0005		
8/21/2019									<0.0005
9/24/2019	<0.0005			<0.0005				<0.0005	
9/25/2019					8.1E-05 (J)	<0.0005			
9/26/2019		8.4E-05 (J)	<0.0005						
10/8/2019									
10/9/2019									<0.0005
2/10/2020									
2/11/2020		7.6E-05 (J)	<0.0005		7.8E-05 (J)			<0.0005	
2/12/2020	<0.0005			<0.0005		7.8E-05 (J)			<0.0005
3/17/2020									
3/18/2020									
3/19/2020								<0.0005	
3/24/2020	<0.0005	8.9E-05 (J)	<0.0005	<0.0005	8E-05 (J)	7.6E-05 (J)			
3/25/2020									<0.0005
8/26/2020									
8/27/2020							4.7E-05 (J)		
9/22/2020	<0.0005						<0.0005		
9/23/2020		8.8E-05 (J)	<0.0005		8.1E-05 (J)			<0.0005	
9/24/2020				<0.0005		8.3E-05 (J)			<0.0005
9/25/2020									
2/8/2021	<0.0005								
2/9/2021		9.8E-05 (J)	<0.0005	<0.0005	9.4E-05 (J)	6.8E-05 (J)			
2/10/2021								<0.0005	5.1E-05 (J)
2/11/2021									
2/12/2021									
3/1/2021							5.5E-05 (J)		
3/2/2021	<0.0005								
3/3/2021		0.00011 (J)	<0.0005		9.9E-05 (J)	6.8E-05 (J)		<0.0005	
3/4/2021				<0.0005					<0.0005
8/19/2021							<0.0005		
8/20/2021									
8/26/2021	<0.0005	9.3E-05 (J)							<0.0005
8/27/2021			<0.0005		0.0001 (J)	5.9E-05 (J)		<0.0005	
9/1/2021				<0.0005					
9/3/2021									
2/8/2022							5.6E-05 (J)		<0.0005
2/9/2022		8.9E-05 (J)	<0.0005	<0.0005	0.00011 (J)	7.7E-05 (J)		<0.0005	
2/10/2022	<0.0005								
2/11/2022									
8/30/2022	<0.0005	8.2E-05 (J)	<0.0005	<0.0005	0.0001 (J)			<0.0005	
8/31/2022						<0.0005	<0.0005		<0.0005
2/7/2023		7.1E-05 (J)	<0.0005	<0.0005	9.6E-05 (J)	7.4E-05 (J)		<0.0005	<0.0005
2/8/2023							<0.0005		
2/9/2023	<0.0005								
8/15/2023	<0.0005	5.7E-05 (J)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
8/16/2023									
2/20/2024	<0.0005		<0.0005	<0.0005	0.0001 (J)	<0.0005	<0.0005	<0.0005	<0.0005
2/23/2024		<0.0005							

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Beryllium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-5I (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)
8/20/2024	<0.0005		<0.0005	<0.0005	0.0001 (J)	<0.0005	<0.0005	<0.0005	
8/21/2024		<0.0005							<0.0005
2/25/2025	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Beryllium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-40 (bg)
5/1/2007	
9/12/2007	
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	
6/2/2016	
6/6/2016	
6/7/2016	
7/21/2016	
7/25/2016	
7/26/2016	
7/27/2016	
7/28/2016	
8/30/2016	
8/31/2016	
9/13/2016	
9/14/2016	
9/15/2016	
9/16/2016	
9/19/2016	
11/1/2016	
11/2/2016	
11/3/2016	
11/4/2016	
11/14/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	
1/12/2017	
1/13/2017	
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
3/1/2017	
3/2/2017	

Tolerance Limit

Constituent: Beryllium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-40 (bg)
3/3/2017	
3/6/2017	
3/7/2017	
3/8/2017	
4/26/2017	
4/27/2017	
4/28/2017	
5/1/2017	
5/2/2017	
5/8/2017	
5/26/2017	
6/27/2017	
6/28/2017	
6/29/2017	
6/30/2017	
7/11/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/12/2017	0.0002 (J)
10/16/2017	
11/20/2017	0.0003 (J)
1/10/2018	0.0003 (J)
1/11/2018	
2/19/2018	<0.0005
2/20/2018	
3/27/2018	
3/28/2018	
3/29/2018	
4/2/2018	
4/3/2018	<0.0005
6/5/2018	
6/6/2018	
6/7/2018	
6/11/2018	
6/28/2018	0.00029 (J)
8/6/2018	
8/7/2018	0.00024 (J)
9/19/2018	
9/24/2018	0.00019 (J)
9/25/2018	
9/26/2018	
2/25/2019	
2/26/2019	
2/27/2019	
3/4/2019	
3/5/2019	
3/6/2019	
3/28/2019	
3/29/2019	
4/1/2019	
4/2/2019	

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Beryllium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-40 (bg)
4/3/2019	
6/12/2019	
8/19/2019	
8/20/2019	
8/21/2019	0.0002 (J)
9/24/2019	
9/25/2019	
9/26/2019	
10/8/2019	
10/9/2019	0.0002 (J)
2/10/2020	
2/11/2020	
2/12/2020	0.00018 (J)
3/17/2020	
3/18/2020	
3/19/2020	
3/24/2020	0.00022 (J)
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	
9/24/2020	0.0002 (J)
9/25/2020	
2/8/2021	
2/9/2021	
2/10/2021	0.00021 (J)
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	
3/4/2021	0.00021 (J)
8/19/2021	
8/20/2021	
8/26/2021	
8/27/2021	
9/1/2021	
9/3/2021	0.00024 (J)
2/8/2022	0.00028 (J)
2/9/2022	
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	0.00025 (J)
2/7/2023	
2/8/2023	0.00026 (J)
2/9/2023	
8/15/2023	<0.0005
8/16/2023	
2/20/2024	0.00025 (J)
2/23/2024	

Tolerance Limit

Constituent: Beryllium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-40 (bg)
8/20/2024	
8/21/2024	0.00023 (J)
2/25/2025	0.00018 (J)

Tolerance Limit

Constituent: Cadmium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-30I (bg)
5/1/2007	<0.0005								
9/12/2007	<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	<0.0005					
6/2/2016					<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
6/6/2016									
6/7/2016									
7/21/2016	<0.0005								
7/25/2016		<0.0005	<0.0005						<0.0005
7/26/2016				<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016	<0.0005								
9/13/2016		<0.0005		<0.0005					
9/14/2016			<0.0005		<0.0005		<0.0005		
9/15/2016						<0.0005		<0.0005	
9/16/2016									
9/19/2016									<0.0005
11/1/2016			<0.0005	<0.0005		<0.0005			<0.0005
11/2/2016					<0.0005		<0.0005	<0.0005	
11/3/2016									
11/4/2016		<0.0005							
11/14/2016									
11/28/2016	<0.0005								
12/15/2016									
1/10/2017								<0.0005	
1/11/2017			8E-05 (J)	0.0002 (J)		0.0001 (J)			
1/12/2017					<0.0005				
1/13/2017							<0.0005		
1/16/2017		<0.0005							<0.0005
2/21/2017									<0.0005
2/22/2017	<0.0005								
2/24/2017									
3/1/2017			<0.0005						
3/2/2017		<0.0005		<0.0005		<0.0005			

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Cadmium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-30I (bg)
3/3/2017									
3/6/2017							<0.0005		
3/7/2017					<0.0005				
3/8/2017								7E-05 (J)	
4/26/2017			<0.0005			<0.0005		<0.0005	<0.0005
4/27/2017		<0.0005		<0.0005					
4/28/2017									
5/1/2017					<0.0005		<0.0005		
5/2/2017									
5/8/2017	<0.0005								
5/26/2017									
6/27/2017		<0.0005		<0.0005	<0.0005				
6/28/2017			<0.0005			<0.0005			
6/29/2017							<0.0005		
6/30/2017								<0.0005	<0.0005
7/11/2017									
7/17/2017	<0.0005								
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017	<0.0005								
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018	<0.0005								
2/20/2018									
3/27/2018		<0.0005						<0.0005	<0.0005
3/28/2018			<0.0005			<0.0005			
3/29/2018				<0.0005	<0.0005		<0.0005		
4/2/2018									
4/3/2018									
6/5/2018									
6/6/2018					<0.0005				
6/7/2018							<0.0005		
6/11/2018									
6/28/2018									
8/6/2018	<0.0005								
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					<0.0005		<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			
3/4/2019					<0.0005		<0.0005		
3/5/2019									
3/6/2019									
3/28/2019		<0.0005		<0.0005					
3/29/2019								<0.0005	
4/1/2019			<0.0005			<0.0005			<0.0005
4/2/2019									

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Cadmium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-30I (bg)
4/3/2019					<0.0005		<0.0005		
6/12/2019	<0.0005								
8/19/2019	<0.0005								
8/20/2019									
8/21/2019									
9/24/2019		<0.0005		<0.0005	<0.0005				
9/25/2019			<0.0005			<0.0005	<0.0005	<0.0005	<0.0005
9/26/2019									
10/8/2019	<0.0005								
10/9/2019									
2/10/2020		<0.0005		<0.0005					
2/11/2020			<0.0005						
2/12/2020					<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
3/17/2020	<0.0005								
3/18/2020		<0.0005						<0.0005	
3/19/2020			<0.0005	<0.0005		<0.0005			<0.0005
3/24/2020					<0.0005				
3/25/2020							<0.0005		
8/26/2020	<0.0005								
8/27/2020									
9/22/2020	<0.0005				<0.0005		<0.0005		
9/23/2020		<0.0005	<0.0005	<0.0005		<0.0005			
9/24/2020									<0.0005
9/25/2020								<0.0005	
2/8/2021					<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			<0.0005	
3/3/2021		<0.0005	<0.0005	<0.0005		<0.0005	<0.0005		
3/4/2021									
8/19/2021		<0.0005		<0.0005		<0.0005		<0.0005	<0.0005
8/20/2021	<0.0005								
8/26/2021					<0.0005		<0.0005		
8/27/2021			<0.0005						
9/1/2021									
9/3/2021									
2/8/2022	<0.0005								
2/9/2022		<0.0005	<0.0005	<0.0005		<0.0005			
2/10/2022					<0.0005			<0.0005	
2/11/2022							<0.0005		<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			0.00013 (J)			<0.0005		<0.0005	<0.0005
2/9/2023							<0.0005		
8/15/2023	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
8/16/2023			<0.0005						<0.0005
2/20/2024	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
2/23/2024								<0.0005	

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Cadmium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-30I (bg)
8/20/2024		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00019 (J)	<0.0005	<0.0005
8/21/2024									
2/25/2025		<0.0005	0.00046 (J)	<0.0005	<0.0005	0.00051	<0.0005	<0.0005	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Cadmium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-5I (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)
5/1/2007									
9/12/2007									
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									
6/2/2016	<0.0005								
6/6/2016		<0.0005	<0.0005						
6/7/2016				<0.0005	<0.0005	<0.0005			
7/21/2016									
7/25/2016									
7/26/2016	<0.0005								
7/27/2016		<0.0005	<0.0005		<0.0005	<0.0005			
7/28/2016				<0.0005					
8/30/2016							0.0001 (J)		
8/31/2016									
9/13/2016									
9/14/2016	<0.0005							<0.0005	
9/15/2016									
9/16/2016		<0.0005			<0.0005				
9/19/2016			<0.0005	<0.0005		<0.0005			
11/1/2016									
11/2/2016						<0.0005			
11/3/2016		<0.0005	<0.0005	<0.0005	<0.0005				
11/4/2016	<0.0005							<0.0005	
11/14/2016							0.0001 (J)		
11/28/2016									
12/15/2016								<0.0005	
1/10/2017									
1/11/2017		0.0001 (J)	<0.0005		0.0001 (J)				
1/12/2017	9E-05 (J)								
1/13/2017				<0.0005		<0.0005			
1/16/2017								<0.0005	
2/21/2017									
2/22/2017									
2/24/2017							9E-05 (J)		
3/1/2017		<0.0005	<0.0005						
3/2/2017					<0.0005				

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Cadmium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-5I (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)
3/3/2017								<0.0005	
3/6/2017				<0.0005		<0.0005			
3/7/2017	<0.0005								
3/8/2017									
4/26/2017		<0.0005	<0.0005	<0.0005		<0.0005			
4/27/2017									
4/28/2017								<0.0005	
5/1/2017									
5/2/2017	<0.0005				<0.0005				
5/8/2017							0.0001 (J)		
5/26/2017								<0.0005	
6/27/2017	<0.0005								
6/28/2017		<0.0005	<0.0005					<0.0005	
6/29/2017				<0.0005	<0.0005	<0.0005			
6/30/2017									
7/11/2017							<0.0005		
7/17/2017									
10/10/2017							<0.0005		
10/11/2017									<0.0005
10/12/2017									
10/16/2017									
11/20/2017									<0.0005
1/10/2018									
1/11/2018									<0.0005
2/19/2018									
2/20/2018									<0.0005
3/27/2018									
3/28/2018		<0.0005	<0.0005		<0.0005			<0.0005	
3/29/2018	<0.0005			<0.0005		<0.0005			
4/2/2018							<0.0005		
4/3/2018									<0.0005
6/5/2018				<0.0005					
6/6/2018						<0.0005			
6/7/2018	<0.0005		<0.0005						
6/11/2018		<0.0005			<0.0005				
6/28/2018									<0.0005
8/6/2018									
8/7/2018									<0.0005
9/19/2018							<0.0005		
9/24/2018									<0.0005
9/25/2018		<0.0005	<0.0005	9.6E-05 (J)	<0.0005	<0.0005			
9/26/2018	<0.0005								
2/25/2019									
2/26/2019									
2/27/2019								<0.0005	
3/4/2019	<0.0005								
3/5/2019		<0.0005		<0.0005	<0.0005	<0.0005			
3/6/2019			<0.0005						
3/28/2019									
3/29/2019								<0.0005	
4/1/2019									
4/2/2019				<0.0005	<0.0005				

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Cadmium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-5I (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)
4/3/2019	<0.0005	<0.0005	<0.0005			<0.0005			
6/12/2019									
8/19/2019									
8/20/2019							<0.0005		
8/21/2019									<0.0005
9/24/2019	<0.0005			<0.0005				<0.0005	
9/25/2019					<0.0005	<0.0005			
9/26/2019		<0.0005	<0.0005						
10/8/2019							<0.0005		
10/9/2019									<0.0005
2/10/2020									
2/11/2020		<0.0005	<0.0005		<0.0005			<0.0005	
2/12/2020	<0.0005			<0.0005		<0.0005			<0.0005
3/17/2020							<0.0005		
3/18/2020									
3/19/2020								<0.0005	
3/24/2020	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			
3/25/2020									<0.0005
8/26/2020									
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			<0.0005
9/25/2020									
2/8/2021	<0.0005								
2/9/2021		<0.0005	<0.0005	0.00041 (J)	<0.0005	<0.0005			
2/10/2021								<0.0005	0.00019 (J)
2/11/2021									
2/12/2021									
3/1/2021									
3/2/2021	<0.0005								
3/3/2021		<0.0005	<0.0005		<0.0005	<0.0005		<0.0005	
3/4/2021				<0.0005					0.0003 (J)
8/19/2021							<0.0005		
8/20/2021									
8/26/2021	<0.0005	<0.0005							0.00049 (J)
8/27/2021			<0.0005		<0.0005	<0.0005		<0.0005	
9/1/2021				<0.0005					
9/3/2021									
2/8/2022							<0.0005		0.00063
2/9/2022		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005	
2/10/2022	<0.0005								
2/11/2022									
8/30/2022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			<0.0005	
8/31/2022						<0.0005	<0.0005		0.00044 (J)
2/7/2023		<0.0005	<0.0005	0.00012 (J)	<0.0005	<0.0005		<0.0005	0.00014 (J)
2/8/2023							0.00032 (J)		
2/9/2023	<0.0005								
8/15/2023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
8/16/2023									
2/20/2024	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2/23/2024		<0.0005							

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Cadmium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-5I (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)
8/20/2024	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
8/21/2024		<0.0005							<0.0005
2/25/2025	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Cadmium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-40 (bg)
5/1/2007	
9/12/2007	
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	
6/2/2016	
6/6/2016	
6/7/2016	
7/21/2016	
7/25/2016	
7/26/2016	
7/27/2016	
7/28/2016	
8/30/2016	
8/31/2016	
9/13/2016	
9/14/2016	
9/15/2016	
9/16/2016	
9/19/2016	
11/1/2016	
11/2/2016	
11/3/2016	
11/4/2016	
11/14/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	
1/12/2017	
1/13/2017	
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
3/1/2017	
3/2/2017	

Tolerance Limit

Constituent: Cadmium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-40 (bg)
3/3/2017	
3/6/2017	
3/7/2017	
3/8/2017	
4/26/2017	
4/27/2017	
4/28/2017	
5/1/2017	
5/2/2017	
5/8/2017	
5/26/2017	
6/27/2017	
6/28/2017	
6/29/2017	
6/30/2017	
7/11/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/12/2017	<0.0005
10/16/2017	
11/20/2017	<0.0005
1/10/2018	<0.0005
1/11/2018	
2/19/2018	<0.0005
2/20/2018	
3/27/2018	
3/28/2018	
3/29/2018	
4/2/2018	
4/3/2018	<0.0005
6/5/2018	
6/6/2018	
6/7/2018	
6/11/2018	
6/28/2018	<0.0005
8/6/2018	
8/7/2018	<0.0005
9/19/2018	
9/24/2018	<0.0005
9/25/2018	
9/26/2018	
2/25/2019	
2/26/2019	
2/27/2019	
3/4/2019	
3/5/2019	
3/6/2019	
3/28/2019	
3/29/2019	
4/1/2019	
4/2/2019	

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Cadmium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-40 (bg)
4/3/2019	
6/12/2019	
8/19/2019	
8/20/2019	
8/21/2019	<0.0005
9/24/2019	
9/25/2019	
9/26/2019	
10/8/2019	
10/9/2019	<0.0005
2/10/2020	
2/11/2020	
2/12/2020	<0.0005
3/17/2020	
3/18/2020	
3/19/2020	
3/24/2020	<0.0005
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	
9/24/2020	<0.0005
9/25/2020	
2/8/2021	
2/9/2021	
2/10/2021	<0.0005
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	
3/4/2021	<0.0005
8/19/2021	
8/20/2021	
8/26/2021	
8/27/2021	
9/1/2021	
9/3/2021	<0.0005
2/8/2022	<0.0005
2/9/2022	
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	
8/15/2023	<0.0005
8/16/2023	
2/20/2024	<0.0005
2/23/2024	

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Cadmium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-40 (bg)
8/20/2024	
8/21/2024	<0.0005
2/25/2025	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Chromium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-3D (bg)	YGWA-30I (bg)
5/1/2007	0.0029								
9/12/2007	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		<0.005	0.0035	<0.005					
6/2/2016					<0.005	<0.005	<0.005	0.0013 (J)	<0.005
6/6/2016									
6/7/2016									
7/21/2016	<0.005								
7/25/2016		0.0007 (J)		0.0007 (J)					<0.005
7/26/2016			0.0009 (J)		<0.005	0.0006 (J)	0.0006 (J)	0.0006 (J)	
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016	<0.005								
9/13/2016			<0.005	<0.005					
9/14/2016		<0.005			<0.005	<0.005	<0.005		
9/15/2016								<0.005	
9/16/2016									
9/19/2016									<0.005
11/1/2016		<0.005	<0.005					<0.005	<0.005
11/2/2016					<0.005	<0.005			
11/3/2016									
11/4/2016				<0.005			<0.005		
11/14/2016									
11/28/2016	<0.005								
12/15/2016									
1/10/2017									
1/11/2017		<0.005	<0.005					<0.005	
1/12/2017						<0.005	<0.005		
1/13/2017					<0.005				
1/16/2017				<0.005					<0.005
2/21/2017									<0.005
2/22/2017	<0.005								
2/24/2017									
3/1/2017		0.0004 (J)							
3/2/2017			0.0009 (J)	0.0004 (J)				0.0006 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Chromium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-3D (bg)	YGWA-30I (bg)
3/3/2017									
3/6/2017					<0.005				
3/7/2017						0.0012 (J)	0.0006 (J)		
3/8/2017									
4/26/2017		<0.005						<0.005	0.0016 (J)
4/27/2017			<0.005	<0.005					
4/28/2017									
5/1/2017					<0.005	0.0004 (J)			
5/2/2017							<0.005		
5/8/2017	<0.005								
5/26/2017									
6/27/2017			<0.005	<0.005		<0.005	<0.005		
6/28/2017		<0.005						<0.005	
6/29/2017					<0.005				
6/30/2017									<0.005
7/11/2017									
7/17/2017	<0.005								
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017	<0.005								
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018	<0.005								
2/20/2018									
3/27/2018				<0.005					<0.005
3/28/2018		<0.005						<0.005	
3/29/2018			<0.005		<0.005	<0.005	<0.005		
4/2/2018									
4/3/2018									
6/28/2018									
8/6/2018	<0.005								
8/7/2018									
9/19/2018									
9/24/2018									
2/25/2019	<0.005								
2/26/2019									<0.005
2/27/2019		<0.005	<0.005	<0.005				<0.005	
3/4/2019					<0.005	<0.005	<0.005		
3/5/2019									
3/6/2019									
3/28/2019			<0.005	0.0021 (J)					
3/29/2019									
4/1/2019		<0.005						<0.005	<0.005
6/12/2019	<0.005								
8/19/2019	<0.005								
8/20/2019									
8/21/2019									
9/24/2019			0.00072 (J)	0.0028 (J)					
9/25/2019		0.0019 (J)						0.0014 (J)	<0.005
10/8/2019	<0.005								

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Chromium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-3D (bg)	YGWA-30I (bg)
10/9/2019									
2/10/2020			0.00042 (J)	<0.005					
2/11/2020		<0.005							
2/12/2020					<0.005	<0.005	0.00043 (J)	<0.005	<0.005
3/17/2020	<0.005								
3/18/2020				0.00044 (J)					
3/19/2020		<0.005	0.00084 (J)					<0.005	<0.005
3/24/2020						<0.005	0.0014 (J)		
3/25/2020					0.00058 (J)				
8/26/2020	<0.005								
8/27/2020									
9/22/2020	<0.005				<0.005	0.0011 (J)	<0.005		
9/23/2020		<0.005	0.00062 (J)	0.00058 (J)				<0.005	
9/24/2020									<0.005
9/25/2020									
2/8/2021						<0.005	<0.005		
2/9/2021					<0.005				
2/10/2021		<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	<0.005		
3/3/2021		<0.005	<0.005	<0.005	0.0013			<0.005	
3/4/2021									
8/19/2021			<0.005	<0.005				<0.005	<0.005
8/20/2021	<0.005								
8/26/2021					<0.005	<0.005	<0.005		
8/27/2021		<0.005							
9/1/2021									
9/3/2021									
2/8/2022	<0.005								
2/9/2022		<0.005	<0.005	<0.005				<0.005	
2/10/2022						<0.005	<0.005		
2/11/2022					<0.005				<0.005
8/30/2022	<0.005		0.0011 (J)			<0.005	<0.005		
8/31/2022		<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)
2/9/2023					<0.005		0.0012 (J)		
8/15/2023	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
8/16/2023		<0.005							<0.005
2/20/2024	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/23/2024									
8/20/2024		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
8/21/2024									
2/25/2025		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Chromium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)
5/1/2007									
9/12/2007									
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									
6/2/2016	<0.005								
6/6/2016		0.0012 (J)	<0.005						
6/7/2016				<0.005	<0.005	<0.005			
7/21/2016									
7/25/2016									
7/26/2016	<0.005								
7/27/2016		0.0007 (J)	0.0006 (J)	0.0008 (J)	0.0005 (J)				
7/28/2016						<0.005			
8/30/2016							<0.005		
8/31/2016									
9/13/2016									
9/14/2016								<0.005	
9/15/2016	<0.005								
9/16/2016			<0.005	<0.005					
9/19/2016		<0.005			<0.005	<0.005			
11/1/2016									
11/2/2016	<0.005				<0.005				
11/3/2016		<0.005	<0.005	<0.005		<0.005			
11/4/2016								<0.005	
11/14/2016							0.0093 (J)		
11/28/2016									
12/15/2016								<0.005	
1/10/2017	<0.005								
1/11/2017		<0.005	<0.005	<0.005					
1/12/2017									
1/13/2017					<0.005	<0.005			
1/16/2017								<0.005	
2/21/2017									
2/22/2017									
2/24/2017							<0.005		
3/1/2017		0.0012 (J)	<0.005						
3/2/2017				0.001 (J)					

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Chromium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)
3/3/2017								0.0005 (J)	
3/6/2017					0.0005 (J)	0.0004 (J)			
3/7/2017									
3/8/2017	0.0005 (J)								
4/26/2017	<0.005	0.0005 (J)	0.0003 (J)		0.0007 (J)	<0.005			
4/27/2017									
4/28/2017								0.0004 (J)	
5/1/2017									
5/2/2017				0.0007 (J)					
5/8/2017							<0.005		
5/26/2017								<0.005	
6/27/2017									
6/28/2017		0.0006 (J)	<0.005					<0.005	
6/29/2017				0.0006 (J)	0.0005 (J)	<0.005			
6/30/2017	<0.005								
7/11/2017							<0.005		
7/17/2017									
10/10/2017							<0.005		
10/11/2017									<0.005
10/12/2017									
10/16/2017									
11/20/2017									<0.005
1/10/2018									
1/11/2018									<0.005
2/19/2018									
2/20/2018									<0.005
3/27/2018	<0.005								
3/28/2018		<0.005	<0.005	<0.005				<0.005	
3/29/2018					<0.005	<0.005			
4/2/2018							<0.005		
4/3/2018									<0.005
6/28/2018									<0.005
8/6/2018									
8/7/2018									<0.005
9/19/2018							<0.005		
9/24/2018									<0.005
2/25/2019									
2/26/2019	<0.005								
2/27/2019								<0.005	
3/4/2019									
3/5/2019			<0.005	<0.005	<0.005	<0.005			
3/6/2019		<0.005							
3/28/2019									
3/29/2019	<0.005							<0.005	
4/1/2019									
6/12/2019									
8/19/2019									
8/20/2019							<0.005		
8/21/2019									<0.005
9/24/2019								<0.005	
9/25/2019	<0.005								
10/8/2019									

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Chromium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)
10/9/2019									<0.005
2/10/2020									
2/11/2020		0.001 (J)	0.00088 (J)	0.00087 (J)				<0.005	
2/12/2020	<0.005				0.00045 (J)	<0.005			<0.005
3/17/2020									
3/18/2020	<0.005								
3/19/2020								0.00048 (J)	
3/24/2020		0.00095 (J)	0.0011 (J)	0.00087 (J)	0.00077 (J)	<0.005			
3/25/2020									<0.005
8/26/2020									
8/27/2020							<0.005		
9/22/2020							<0.005		
9/23/2020		0.00092 (J)	0.0012 (J)	0.00098 (J)				<0.005	
9/24/2020					0.00076 (J)	<0.005			<0.005
9/25/2020	<0.005								
2/8/2021									
2/9/2021		0.00083 (J)	0.0013 (J)	0.00098 (J)	0.00056 (J)	<0.005			
2/10/2021	<0.005							<0.005	<0.005
2/11/2021									
2/12/2021									
3/1/2021							<0.005		
3/2/2021	<0.005								
3/3/2021		0.00087 (J)	0.001 (J)	0.00082 (J)	<0.005			<0.005	
3/4/2021						<0.005			<0.005
8/19/2021	<0.005						<0.005		
8/20/2021									
8/26/2021			<0.005						<0.005
8/27/2021		<0.005		<0.005	<0.005			<0.005	
9/1/2021						<0.005			
9/3/2021									
2/8/2022							<0.005		<0.005
2/9/2022		<0.005	0.0014 (J)	<0.005	<0.005	<0.005		<0.005	
2/10/2022	<0.005								
2/11/2022									
8/30/2022		<0.005	0.0015 (J)	<0.005		<0.005		<0.005	
8/31/2022	<0.005				<0.005		<0.005		<0.005
2/7/2023		<0.005	0.0016 (J)	<0.005	<0.005	<0.005		<0.005	<0.005
2/8/2023	<0.005						<0.005		
2/9/2023									
8/15/2023	<0.005	<0.005	0.0013 (J)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
8/16/2023									
2/20/2024		<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/23/2024	<0.005		<0.005						
8/20/2024	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	
8/21/2024			<0.005						<0.005
2/25/2025	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Chromium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-40 (bg)
5/1/2007	
9/12/2007	
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	
6/2/2016	
6/6/2016	
6/7/2016	
7/21/2016	
7/25/2016	
7/26/2016	
7/27/2016	
7/28/2016	
8/30/2016	
8/31/2016	
9/13/2016	
9/14/2016	
9/15/2016	
9/16/2016	
9/19/2016	
11/1/2016	
11/2/2016	
11/3/2016	
11/4/2016	
11/14/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	
1/12/2017	
1/13/2017	
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
3/1/2017	
3/2/2017	

Tolerance Limit

Constituent: Chromium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-40 (bg)
3/3/2017	
3/6/2017	
3/7/2017	
3/8/2017	
4/26/2017	
4/27/2017	
4/28/2017	
5/1/2017	
5/2/2017	
5/8/2017	
5/26/2017	
6/27/2017	
6/28/2017	
6/29/2017	
6/30/2017	
7/11/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/12/2017	<0.005
10/16/2017	
11/20/2017	<0.005
1/10/2018	<0.005
1/11/2018	
2/19/2018	<0.005
2/20/2018	
3/27/2018	
3/28/2018	
3/29/2018	
4/2/2018	
4/3/2018	<0.005
6/28/2018	<0.005
8/6/2018	
8/7/2018	<0.005
9/19/2018	
9/24/2018	<0.005
2/25/2019	
2/26/2019	
2/27/2019	
3/4/2019	
3/5/2019	
3/6/2019	
3/28/2019	
3/29/2019	
4/1/2019	
6/12/2019	
8/19/2019	
8/20/2019	
8/21/2019	0.00053 (J)
9/24/2019	
9/25/2019	
10/8/2019	

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Chromium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-40 (bg)
10/9/2019	0.0012 (J)
2/10/2020	
2/11/2020	
2/12/2020	0.00065 (J)
3/17/2020	
3/18/2020	
3/19/2020	
3/24/2020	0.00055 (J)
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	
9/24/2020	<0.005
9/25/2020	
2/8/2021	
2/9/2021	
2/10/2021	<0.005
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	
3/4/2021	<0.005
8/19/2021	
8/20/2021	
8/26/2021	
8/27/2021	
9/1/2021	
9/3/2021	<0.005
2/8/2022	<0.005
2/9/2022	
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	
8/15/2023	<0.005
8/16/2023	
2/20/2024	<0.005
2/23/2024	
8/20/2024	
8/21/2024	<0.005
2/25/2025	<0.005

Tolerance Limit

Constituent: Cobalt (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-30I (bg)
5/1/2007	0.0067								
9/12/2007	<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	<0.005	0.00082 (J)					
6/2/2016					<0.005	<0.005	0.00082 (J)	<0.005	0.035
6/6/2016									
6/7/2016									
7/21/2016	0.0011 (J)								
7/25/2016			<0.005	0.0008 (J)					0.0312
7/26/2016		<0.005			<0.005	<0.005	0.0012 (J)	<0.005	
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016	0.0053 (J)								
9/13/2016		<0.005		0.0009 (J)					
9/14/2016			<0.005		<0.005		0.0006 (J)		
9/15/2016						<0.005		<0.005	
9/16/2016									
9/19/2016									0.0275
11/1/2016		<0.005	<0.005			<0.005			0.0255
11/2/2016					<0.005		<0.005	<0.005	
11/3/2016									
11/4/2016				0.0025 (J)					
11/14/2016									
11/28/2016	0.0036 (J)								
12/15/2016									
1/10/2017								<0.005	
1/11/2017		<0.005	<0.005			<0.005			
1/12/2017					<0.005				
1/13/2017							0.0029 (J)		
1/16/2017				0.0027 (J)					0.0245
2/21/2017									0.0272
2/22/2017	0.0049 (J)								
2/24/2017									
3/1/2017			<0.005						
3/2/2017		<0.005		0.0022 (J)		<0.005			

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Cobalt (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-30I (bg)
3/3/2017									
3/6/2017							0.0006 (J)		
3/7/2017					<0.005				
3/8/2017								<0.005	
4/26/2017			<0.005			<0.005		<0.005	0.0244
4/27/2017		<0.005		0.0018 (J)					
4/28/2017									
5/1/2017					<0.005		<0.005		
5/2/2017									
5/8/2017	0.0059 (J)								
5/26/2017									
6/27/2017		<0.005		0.0023 (J)	<0.005				
6/28/2017			<0.005			<0.005			
6/29/2017							0.0005 (J)		
6/30/2017								<0.005	0.0233
7/11/2017									
7/17/2017	0.0046 (J)								
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017	0.0034 (J)								
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018	<0.005								
2/20/2018									
3/27/2018				<0.005				<0.005	0.023
3/28/2018			<0.005			<0.005			
3/29/2018		<0.005			<0.005		<0.005		
4/2/2018									
4/3/2018									
6/5/2018		<0.005							
6/6/2018				<0.005	<0.005				
6/7/2018						<0.005	0.00058 (J)		
6/8/2018			<0.005					<0.005	
6/11/2018									0.023
6/28/2018									
8/6/2018	0.003 (J)								
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					<0.005		<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	<0.005	0.00064 (J)		<0.005			
3/4/2019					<0.005		<0.005		
3/5/2019									
3/6/2019									
3/28/2019		<0.005		0.00091 (J)					

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Cobalt (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-30I (bg)
3/29/2019								<0.005	
4/1/2019			<0.005			<0.005			0.022
4/2/2019									
4/3/2019					<0.005		0.00083 (J)		
6/12/2019	0.003 (J)								
8/19/2019	0.0035 (J)								
8/20/2019									
8/21/2019									
9/24/2019		<0.005		0.0013 (J)	<0.005				
9/25/2019			<0.005			<0.005	<0.005	<0.005	0.016
9/26/2019									
10/8/2019	0.0039 (J)								
10/9/2019									
2/10/2020		<0.005		0.0016 (J)					
2/11/2020			<0.005						
2/12/2020					0.00037 (J)	<0.005	<0.005	<0.005	0.014
3/17/2020	0.003 (J)								
3/18/2020				0.00087 (J)				<0.005	
3/19/2020		<0.005	<0.005			<0.005			0.014
3/24/2020					0.00035 (J)				
3/25/2020							0.00056 (J)		
8/26/2020	0.2 (O)								
8/27/2020									
9/22/2020	0.16 (O)				<0.005		<0.005		
9/23/2020		<0.005	<0.005	0.0013 (J)		<0.005			
9/24/2020									0.0064
9/25/2020								<0.005	
2/8/2021					<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									0.0061
3/2/2021	0.21 (O)				<0.005			<0.005	
3/3/2021		<0.005	<0.005	0.003 (J)		<0.005	<0.005		
3/4/2021									
8/19/2021		0.00055 (J)		0.0017 (J)		<0.005		<0.005	0.0052
8/20/2021	0.074 (O)								
8/26/2021					<0.005		0.00042 (J)		
8/27/2021			<0.005						
9/1/2021									
9/3/2021									
2/8/2022	0.072 (O)								
2/9/2022		0.00072 (J)	<0.005	0.0023 (J)		<0.005			
2/10/2022					<0.005			<0.005	
2/11/2022							<0.005		0.0038 (J)
8/30/2022	0.075 (O)	<0.005			<0.005				
8/31/2022			<0.005	0.00085 (J)		<0.005	<0.005	<0.005	0.004 (J)
2/7/2023	0.034	0.00097 (J)		0.0048 (J)	<0.005				
2/8/2023			<0.005			<0.005		<0.005	0.0031 (J)
2/9/2023							<0.005		
8/15/2023	0.031	<0.005		0.00072 (J)	<0.005	<0.005	<0.005	<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Cobalt (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-30I (bg)
8/16/2023			<0.005						0.0028 (J)
2/20/2024	0.023	0.00055 (J)	<0.005	0.0018 (J)	<0.005	<0.005	<0.005		0.0029 (J)
2/23/2024								<0.005	
8/20/2024		<0.005	<0.005	0.00033 (J)	<0.005	<0.005	<0.005	<0.005	0.0023 (J)
8/21/2024									
2/25/2025		<0.005	<0.005	0.0014 (J)	<0.005	<0.005	<0.005	<0.005	0.0023 (J)

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Cobalt (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-5I (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)
5/1/2007									
9/12/2007									
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									
6/2/2016	<0.005								
6/6/2016		0.00061 (J)	<0.005						
6/7/2016				0.0056	<0.005	<0.005			
7/21/2016									
7/25/2016									
7/26/2016	<0.005								
7/27/2016		0.0004 (J)	<0.005		<0.005	<0.005			
7/28/2016				0.0032 (J)					
8/30/2016							0.0073 (J)		
8/31/2016									
9/13/2016									
9/14/2016	<0.005							<0.005	
9/15/2016									
9/16/2016		0.0008 (J)			<0.005				
9/19/2016			<0.005	0.0047 (J)		<0.005			
11/1/2016									
11/2/2016						<0.005			
11/3/2016		<0.005	<0.005	0.013	<0.005				
11/4/2016	<0.005							<0.005	
11/14/2016							0.0115		
11/28/2016									
12/15/2016								<0.005	
1/10/2017									
1/11/2017		<0.005	<0.005		<0.005				
1/12/2017	<0.005								
1/13/2017				0.011		<0.005			
1/16/2017								<0.005	
2/21/2017									
2/22/2017									
2/24/2017							0.0106		
3/1/2017		<0.005	<0.005						
3/2/2017					<0.005				

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Cobalt (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-5I (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)
3/3/2017								<0.005	
3/6/2017				0.011		<0.005			
3/7/2017	<0.005								
3/8/2017									
4/26/2017		<0.005	<0.005	0.009 (J)		<0.005			
4/27/2017									
4/28/2017								<0.005	
5/1/2017									
5/2/2017	<0.005				<0.005				
5/8/2017							0.0099 (J)		
5/26/2017								<0.005	
6/27/2017	<0.005								
6/28/2017		<0.005	<0.005					<0.005	
6/29/2017				0.0093 (J)	<0.005	<0.005			
6/30/2017									
7/11/2017							0.0096 (J)		
7/17/2017									
10/10/2017							0.0036 (J)		
10/11/2017									<0.005
10/12/2017									
10/16/2017									
11/20/2017									<0.005
1/10/2018									
1/11/2018									<0.005
2/19/2018									
2/20/2018									<0.005
3/27/2018									
3/28/2018		<0.005	<0.005		<0.005			<0.005	
3/29/2018	<0.005			<0.005		<0.005			
4/2/2018							<0.005		
4/3/2018									<0.005
6/5/2018				0.0041 (J)					
6/6/2018						<0.005			
6/7/2018	<0.005		<0.005					<0.005	
6/8/2018									
6/11/2018		<0.005			<0.005				
6/28/2018									<0.005
8/6/2018									
8/7/2018									<0.005
9/19/2018							0.0036 (J)		
9/24/2018									<0.005
9/25/2018		<0.005	<0.005	0.0044 (J)	<0.005	<0.005			
9/26/2018	<0.005								
10/1/2018								<0.005	
10/2/2018									
2/25/2019									
2/26/2019									
2/27/2019								<0.005	
3/4/2019	<0.005								
3/5/2019		<0.005		0.0039 (J)	<0.005	<0.005			
3/6/2019			<0.005						
3/28/2019									

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Cobalt (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-5I (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)
3/29/2019								<0.005	
4/1/2019									
4/2/2019				0.0039 (J)	<0.005				
4/3/2019	<0.005	<0.005	<0.005			<0.005			
6/12/2019									
8/19/2019									
8/20/2019							0.00092 (J)		
8/21/2019									0.00034 (J)
9/24/2019	<0.005			0.0032 (J)				<0.005	
9/25/2019					<0.005	<0.005			
9/26/2019		<0.005	<0.005						
10/8/2019							0.0014 (J)		
10/9/2019									<0.005
2/10/2020									
2/11/2020		<0.005	<0.005		<0.005			<0.005	
2/12/2020	<0.005			0.0081		<0.005			0.00034 (J)
3/17/2020							0.0017 (J)		
3/18/2020									
3/19/2020								<0.005	
3/24/2020	<0.005	<0.005	<0.005	0.0061	<0.005	<0.005			
3/25/2020									0.00034 (J)
8/26/2020									
8/27/2020							0.0011 (J)		
9/22/2020	<0.005						0.00097 (J)		
9/23/2020		<0.005	<0.005		<0.005			<0.005	
9/24/2020				0.0079		<0.005			0.00053 (J)
9/25/2020									
2/8/2021	<0.005								
2/9/2021		<0.005	<0.005	0.009	<0.005	<0.005			
2/10/2021								<0.005	0.00098 (J)
2/11/2021									
2/12/2021									
3/1/2021							0.001 (J)		
3/2/2021	<0.005								
3/3/2021		<0.005	<0.005		<0.005	<0.005		<0.005	
3/4/2021				0.0065					0.00071 (J)
8/19/2021							0.00099 (J)		
8/20/2021									
8/26/2021	<0.005	<0.005							0.0011 (J)
8/27/2021			<0.005		<0.005	<0.005		<0.005	
9/1/2021				0.0068					
9/3/2021									
2/8/2022							0.0013 (J)		0.0012 (J)
2/9/2022		<0.005	<0.005	0.0078	<0.005	<0.005		<0.005	
2/10/2022	<0.005								
2/11/2022									
8/30/2022	<0.005	<0.005	<0.005	0.0066	<0.005			<0.005	
8/31/2022						<0.005	0.00096 (J)		0.00085 (J)
2/7/2023		<0.005	<0.005	0.014	<0.005	<0.005		<0.005	0.00066 (J)
2/8/2023							0.0011 (J)		
2/9/2023	<0.005								
8/15/2023	<0.005	<0.005	<0.005	0.011	<0.005	<0.005	0.00072 (J)	<0.005	0.00072 (J)

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Cobalt (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-5I (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)
8/16/2023									
2/20/2024	<0.005		<0.005	0.02	<0.005	<0.005	0.0011 (J)	<0.005	0.00073 (J)
2/23/2024		<0.005							
8/20/2024	<0.005		<0.005	0.02	<0.005	<0.005	0.00034 (J)	<0.005	
8/21/2024		<0.005							0.00048 (J)
2/25/2025	<0.005	<0.005	<0.005	0.041 (o)	<0.005	<0.005	<0.005	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Cobalt (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-40 (bg)
5/1/2007	
9/12/2007	
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	
6/2/2016	
6/6/2016	
6/7/2016	
7/21/2016	
7/25/2016	
7/26/2016	
7/27/2016	
7/28/2016	
8/30/2016	
8/31/2016	
9/13/2016	
9/14/2016	
9/15/2016	
9/16/2016	
9/19/2016	
11/1/2016	
11/2/2016	
11/3/2016	
11/4/2016	
11/14/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	
1/12/2017	
1/13/2017	
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
3/1/2017	
3/2/2017	

Tolerance Limit

Constituent: Cobalt (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-40 (bg)
3/3/2017	
3/6/2017	
3/7/2017	
3/8/2017	
4/26/2017	
4/27/2017	
4/28/2017	
5/1/2017	
5/2/2017	
5/8/2017	
5/26/2017	
6/27/2017	
6/28/2017	
6/29/2017	
6/30/2017	
7/11/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/12/2017	<0.005
10/16/2017	
11/20/2017	<0.005
1/10/2018	<0.005
1/11/2018	
2/19/2018	<0.005
2/20/2018	
3/27/2018	
3/28/2018	
3/29/2018	
4/2/2018	
4/3/2018	<0.005
6/5/2018	
6/6/2018	
6/7/2018	
6/8/2018	
6/11/2018	
6/28/2018	<0.005
8/6/2018	
8/7/2018	<0.005
9/19/2018	
9/24/2018	<0.005
9/25/2018	
9/26/2018	
10/1/2018	
10/2/2018	
2/25/2019	
2/26/2019	
2/27/2019	
3/4/2019	
3/5/2019	
3/6/2019	
3/28/2019	

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Cobalt (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-40 (bg)
3/29/2019	
4/1/2019	
4/2/2019	
4/3/2019	
6/12/2019	
8/19/2019	
8/20/2019	
8/21/2019	<0.005
9/24/2019	
9/25/2019	
9/26/2019	
10/8/2019	
10/9/2019	<0.005
2/10/2020	
2/11/2020	
2/12/2020	<0.005
3/17/2020	
3/18/2020	
3/19/2020	
3/24/2020	<0.005
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	
9/24/2020	<0.005
9/25/2020	
2/8/2021	
2/9/2021	
2/10/2021	<0.005
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	
3/4/2021	<0.005
8/19/2021	
8/20/2021	
8/26/2021	
8/27/2021	
9/1/2021	
9/3/2021	<0.005
2/8/2022	<0.005
2/9/2022	
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	
8/15/2023	<0.005

Tolerance Limit

Constituent: Cobalt (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-40 (bg)
8/16/2023	
2/20/2024	<0.005
2/23/2024	
8/20/2024	
8/21/2024	<0.005
2/25/2025	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/1/2016	0.42	0.321 (U)	0.896						
6/2/2016				0.329 (U)	0.721	2.51	0.0652 (U)	5.11	0.614
6/6/2016									
6/7/2016									
7/25/2016	1.83		2.28				3.01		
7/26/2016		0.707		1.51	1.26	3.82		6.92	1.47
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016									
9/13/2016	0.841	1.22							
9/14/2016			0.821		0.901			3.96	1.27
9/15/2016				1.04		4.24			
9/16/2016									
9/19/2016							0.871 (U)		
11/1/2016		0.805	0.585			3.92	0.307		
11/2/2016				0.496	1.09			4.53	
11/3/2016									
11/4/2016	0.166								0.434
11/28/2016									
12/15/2016									
1/10/2017				0.376 (U)					
1/11/2017		0.705	1.22			2.52			
1/12/2017								4.43	0.202
1/13/2017					1.19				
1/16/2017	0						0.284		
2/21/2017							0.503		
2/22/2017									
2/24/2017									
3/1/2017			0.877						
3/2/2017	0.504	0.251				3.13			
3/3/2017									
3/6/2017					0.669				
3/7/2017								4.8	0.0674
3/8/2017				0.0745					
4/26/2017			0.672	0.282		2.35	0.204		
4/27/2017	0.593	1.08							
4/28/2017									
5/1/2017					0.803			4.16	
5/2/2017									0.444
5/8/2017									
5/26/2017									
6/27/2017	0.657 (U)	1.02 (U)						2.8	0.77 (U)
6/28/2017			1.07 (U)			2.6			
6/29/2017					1.35				
6/30/2017				0.994			0.738 (U)		
7/11/2017									
7/17/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									

Tolerance Limit

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
3/27/2018	0.39			0.189			0.31		
3/28/2018			0.65			3			
3/29/2018		0.503			0.703			3.42	0.648
4/2/2018									
4/3/2018									
6/5/2018		0.771 (U)							
6/6/2018	2.8							3.99	
6/7/2018					0.628 (U)	2.79			0.745 (U)
6/8/2018			1.89	0.218 (U)					
6/11/2018							0.608 (U)		
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					0.756 (U)			2.73	0.377 (U)
10/1/2018	1.06 (U)	0.783 (U)	1.58	1.24		3.14			
10/2/2018							0.97 (U)		
2/26/2019				0.202 (U)			0.524 (U)		
2/27/2019	0.637 (U)	1.21 (U)	3.67			3.79			
3/4/2019					1.21 (U)			4.43	1 (U)
3/5/2019									
3/6/2019									
3/28/2019	0.125 (U)	1.13 (U)							
3/29/2019				0 (U)					
4/1/2019			2.28			4.33	1.02 (U)		
4/2/2019									
4/3/2019					1.07 (U)			4.79	0.43 (U)
8/19/2019									
8/20/2019									
8/21/2019									
9/24/2019	0.949 (U)	1.22 (U)						4.06	0.699 (U)
9/25/2019			1.6	0.707 (U)	1.86	4.2	1.02 (U)		
9/26/2019									
10/8/2019									
10/9/2019									
2/10/2020	1.25 (U)	1.41							
2/11/2020			1.85			3.87			
2/12/2020				1.07 (U)	1.25		0.301 (U)	4.02	0.913 (U)
3/17/2020									
3/18/2020	0.458 (U)			0.207 (U)					
3/19/2020		1.1	2.2			3.96	1		
3/24/2020								3.52	1.37
3/25/2020					0.766 (U)				
8/26/2020									
8/27/2020									

Tolerance Limit

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
9/22/2020					0.795 (U)			2.98	0.428 (U)
9/23/2020	0.00884 (U)	1.35 (U)	1.14 (U)			4.14			
9/24/2020							0.684 (U)		
9/25/2020				0.603 (U)					
2/8/2021								2.89	0.613 (U)
2/9/2021					0.626 (U)				
2/10/2021			2.46	0.353 (U)		3.65			
2/11/2021							0.678 (U)		
2/12/2021	0.458 (U)	0.366 (U)							
3/1/2021							0.412 (U)		
3/2/2021				0.71 (U)				1.67	0.579 (U)
3/3/2021	0.105 (U)	0.492 (U)	2.03		1	3.58			
3/4/2021									
8/19/2021	0.0732 (U)	1.17 (U)		0.786 (U)		3.53	0.234 (U)		
8/20/2021									
8/26/2021					1.17 (U)			4.68	0.798 (U)
8/27/2021			1.34						
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	0.422 (U)	1.19	1.91			3.28			
2/10/2022				0 (U)			0.268 (U)	3.33	0.375 (U)
2/11/2022					0.996				
8/30/2022		0.827						5.34	0.72 (U)
8/31/2022	0.49 (U)		1.33	0.421 (U)	0.962	2.12	0.506 (U)		
2/7/2023	0.661 (U)	0.92 (U)						3.99	
2/8/2023			1.18	0.83 (U)		2.74	0.417 (U)		
2/9/2023					1.12				0.0815 (U)
8/15/2023	0.726 (U)	0.935 (U)		0.652 (U)	1.14	2.79		3.44	0.846 (U)
8/16/2023			1.87				0.895 (U)		
2/20/2024	0.798 (U)	0.274 (U)	1.09 (U)		1.1 (U)	2.56	0.375 (U)	2.8	0.63 (U)
2/23/2024				0.736 (U)					
8/20/2024	0.65 (U)	0.46 (U)	0.921 (U)	0.667 (U)	1.18	3.09	0.748 (U)	3.02	0.695 (U)
8/21/2024									
2/25/2025	0.978 (U)	1.24	1.46	0.376 (U)	1.54	3.04	0.385 (U)	3.65	0.767 (U)

Tolerance Limit

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)
6/1/2016									
6/2/2016									
6/6/2016	0.301 (U)	0.0804 (U)							
6/7/2016			0.158 (U)	0.347	0.0191 (U)				
7/25/2016									
7/26/2016									
7/27/2016	0.196	0.206	0.0354		0.541				
7/28/2016				0.815					
8/30/2016						1.09			
8/31/2016							1.2		
9/13/2016									
9/14/2016								0.98	
9/15/2016									
9/16/2016	0.915		1.04						
9/19/2016		1.58		0.862	0.826				
11/1/2016									
11/2/2016					0.791				
11/3/2016	0.928	0.342	0.314	0.797					
11/4/2016								0.277	
11/28/2016							0.264 (U)		
12/15/2016						1		0.071 (U)	
1/10/2017									
1/11/2017	0.502 (U)	0.365 (U)	0.34 (U)						
1/12/2017									
1/13/2017				0.72	0.296				
1/16/2017								0.44	
2/21/2017									
2/22/2017							1.06 (U)		
2/24/2017						0.504			
3/1/2017	0.202	0.395							
3/2/2017			0.746						
3/3/2017								0.448	
3/6/2017				0.518	0.518				
3/7/2017									
3/8/2017									
4/26/2017	0.264	0.507		1.13	0.282				
4/27/2017									
4/28/2017								0.548	
5/1/2017									
5/2/2017			0.111						
5/8/2017						0.455	0.187 (U)		
5/26/2017								0	
6/27/2017									
6/28/2017	0.636 (U)	0.892						0.608 (U)	
6/29/2017			0.576 (U)	0.841 (U)	1.12				
6/30/2017									
7/11/2017						0.471 (U)			
7/17/2017							1.42		
10/10/2017						0.649 (U)			
10/11/2017									0.586 (U)
10/12/2017									
10/16/2017							1.17		

Tolerance Limit

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)
11/20/2017									0.816 (U)
1/10/2018									
1/11/2018									0.841 (U)
2/19/2018							1.58		
2/20/2018									1.58
3/27/2018									
3/28/2018	0.56	0.92	0.438					0.412	
3/29/2018				1.91	1.73				
4/2/2018						0.512			
4/3/2018									0.385 (U)
6/5/2018				1.39					
6/6/2018					0.694 (U)				
6/7/2018		0.668 (U)						0.73 (U)	
6/8/2018									
6/11/2018	0.649 (U)		0.901 (U)						
6/28/2018									0.283 (U)
8/6/2018							0.196 (U)		
8/7/2018									0.332 (U)
9/19/2018						0.789 (U)			
9/24/2018									0.767 (U)
9/25/2018	0.574 (U)	0.141 (U)	0.68 (U)	1.62	0.772 (U)				
9/26/2018									
10/1/2018								0.756 (U)	
10/2/2018									
2/26/2019									
2/27/2019								0.635 (U)	
3/4/2019									
3/5/2019	0.474 (U)		0.272 (U)	0.985 (U)	0.84 (U)				
3/6/2019		0.714 (U)							
3/28/2019									
3/29/2019								0.224 (U)	
4/1/2019									
4/2/2019			0.847 (U)	1.42					
4/3/2019	0.429 (U)	0.385 (U)			1.01				
8/19/2019							1.39		
8/20/2019						2.44			
8/21/2019									1.01 (U)
9/24/2019				1.35				0.429 (U)	
9/25/2019			0.412 (U)		1.18 (U)				
9/26/2019	0.222 (U)	0.386 (U)							
10/8/2019						1.72	1.32 (U)		
10/9/2019									1.02
2/10/2020									
2/11/2020	0.597 (U)	1.48	0.461 (U)					0.817 (U)	
2/12/2020				1.61	1.11 (U)				0.45 (U)
3/17/2020						1.22 (U)	1 (U)		
3/18/2020									
3/19/2020								0.715 (U)	
3/24/2020	0.262 (U)	0.632 (U)	0.534 (U)	1.24 (U)	1.88				
3/25/2020									0.377 (U)
8/26/2020							1.75		
8/27/2020						1.26 (U)			

Tolerance Limit

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)
9/22/2020						1.06 (U)	0.688 (U)		
9/23/2020	0.43 (U)	0.887 (U)	0.466 (U)					0.565 (U)	
9/24/2020				1.8	0.611 (U)				0.568 (U)
9/25/2020									
2/8/2021									
2/9/2021	0.259 (U)	0.314 (U)	0.529 (U)	1.24	0.284 (U)				
2/10/2021								1.04 (U)	0.518 (U)
2/11/2021									
2/12/2021									
3/1/2021						1.2			
3/2/2021							0.948 (U)		
3/3/2021	0.352 (U)	0.565 (U)	0.59 (U)		0.133 (U)			0.459 (U)	
3/4/2021				1.2					0.636 (U)
8/19/2021						1.07 (U)			
8/20/2021							0.528 (U)		
8/26/2021	0.686 (U)								0.674 (U)
8/27/2021		0.761 (U)	0.9 (U)		0.779 (U)			0.409 (U)	
9/1/2021				1.86					
9/3/2021									
2/8/2022						0.4 (U)	0.462 (U)		0.834
2/9/2022	0.0618 (U)	0.571 (U)	0.133 (U)	1.94	0.504 (U)			0.894 (U)	
2/10/2022									
2/11/2022									
8/30/2022	0.611 (U)	1.01	1.08	1.27			1.52	0.699 (U)	
8/31/2022					0.184 (U)	0.714 (U)			0.937
2/7/2023	0.656 (U)	0.485 (U)	0.367 (U)	1.53	0.794 (U)		1	0.536 (U)	1.41
2/8/2023						0.375 (U)			
2/9/2023									
8/15/2023	0.347 (U)	0.655 (U)	0.0388 (U)	1.68	0.165 (U)	0.947 (U)	0.833 (U)	0.611 (U)	0.608 (U)
8/16/2023									
2/20/2024		0.068 (U)	0.0387 (U)	1.19	0.165 (U)	0.939 (U)	0.978 (U)	0.784 (U)	0.701 (U)
2/23/2024	0.318 (U)								
8/20/2024		0.223 (U)	0.554 (U)	0.545 (U)	0.371 (U)	0.873 (U)		0.0912 (U)	
8/21/2024	0.684 (U)								1.52
2/25/2025	0.359 (U)	0.391 (U)	0.0768 (U)	1.14 (U)	1.2 (U)	1.1 (U)		0.123 (U)	0.895 (U)

Tolerance Limit

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-40 (bg)
6/1/2016	
6/2/2016	
6/6/2016	
6/7/2016	
7/25/2016	
7/26/2016	
7/27/2016	
7/28/2016	
8/30/2016	
8/31/2016	
9/13/2016	
9/14/2016	
9/15/2016	
9/16/2016	
9/19/2016	
11/1/2016	
11/2/2016	
11/3/2016	
11/4/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	
1/12/2017	
1/13/2017	
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
3/1/2017	
3/2/2017	
3/3/2017	
3/6/2017	
3/7/2017	
3/8/2017	
4/26/2017	
4/27/2017	
4/28/2017	
5/1/2017	
5/2/2017	
5/8/2017	
5/26/2017	
6/27/2017	
6/28/2017	
6/29/2017	
6/30/2017	
7/11/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/12/2017	1.49
10/16/2017	

Tolerance Limit

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-40 (bg)
11/20/2017	0.918 (U)
1/10/2018	1.05
1/11/2018	
2/19/2018	2.05
2/20/2018	
3/27/2018	
3/28/2018	
3/29/2018	
4/2/2018	
4/3/2018	0.68 (U)
6/5/2018	
6/6/2018	
6/7/2018	
6/8/2018	
6/11/2018	
6/28/2018	1.28
8/6/2018	
8/7/2018	1.16
9/19/2018	
9/24/2018	0.965
9/25/2018	
9/26/2018	
10/1/2018	
10/2/2018	
2/26/2019	
2/27/2019	
3/4/2019	
3/5/2019	
3/6/2019	
3/28/2019	
3/29/2019	
4/1/2019	
4/2/2019	
4/3/2019	
8/19/2019	
8/20/2019	
8/21/2019	1.24
9/24/2019	
9/25/2019	
9/26/2019	
10/8/2019	
10/9/2019	0.866 (U)
2/10/2020	
2/11/2020	
2/12/2020	1.83
3/17/2020	
3/18/2020	
3/19/2020	
3/24/2020	1.27 (U)
3/25/2020	
8/26/2020	
8/27/2020	

Tolerance Limit

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-40 (bg)
9/22/2020	
9/23/2020	
9/24/2020	0.634 (U)
9/25/2020	
2/8/2021	
2/9/2021	
2/10/2021	0.783 (U)
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	
3/4/2021	0.818 (U)
8/19/2021	
8/20/2021	
8/26/2021	
8/27/2021	
9/1/2021	
9/3/2021	0.971 (U)
2/8/2022	0.534 (U)
2/9/2022	
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	0.513 (U)
2/7/2023	
2/8/2023	1.56
2/9/2023	
8/15/2023	0.325 (U)
8/16/2023	
2/20/2024	0.437 (U)
2/23/2024	
8/20/2024	
8/21/2024	0.265 (U)
2/25/2025	0.685 (U)

Tolerance Limit

Constituent: Fluoride (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-30I (bg)
6/1/2016	<0.1	0.12 (J)	0.15 (J)						
6/2/2016				0.11 (J)	<0.1	<0.1	<0.1	0.62	<0.1
6/6/2016									
6/7/2016									
7/25/2016	0.06 (J)		0.14 (J)						0.06 (J)
7/26/2016		0.08 (J)		0.05 (J)	<0.1	<0.1	0.02 (J)	0.49	
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016									
9/13/2016	<0.1	0.11 (J)							
9/14/2016			0.18 (J)	0.04 (J)	<0.1	<0.1			
9/15/2016							<0.1	0.54	
9/16/2016									
9/19/2016									<0.1
11/1/2016		0.1 (J)	0.15 (J)					0.68	0.07 (J)
11/2/2016				0.2 (J)	0.07 (J)		0.04 (J)		
11/3/2016									
11/4/2016	0.07 (J)					<0.1			
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017							<0.1		
1/11/2017		0.05 (J)	0.09 (J)					0.49	
1/12/2017				0.04 (J)		<0.1			
1/13/2017					<0.1				
1/16/2017	0.03 (J)								<0.1
2/21/2017									0.05 (J)
2/22/2017									
2/24/2017									
3/1/2017			0.2 (J)						
3/2/2017	0.06 (J)	0.09 (J)						0.48	
3/3/2017									
3/6/2017					0.05 (J)				
3/7/2017				0.09 (J)		0.03 (J)			
3/8/2017							0.04 (J)		
4/26/2017			0.08 (J)				<0.1	0.48	<0.1
4/27/2017	0.01 (J)	0.04 (J)							
4/28/2017									
5/1/2017				0.04 (J)	<0.1				
5/2/2017						<0.1			
5/8/2017									
5/26/2017									
6/27/2017	0.06 (J)	0.06 (J)		0.09 (J)		<0.1			
6/28/2017			0.12 (J)					0.47	
6/29/2017					0.02 (J)				
6/30/2017							<0.1		0.01 (J)
7/11/2017									
7/17/2017									
10/3/2017	<0.1	0.07 (J)		0.05 (J)		<0.1			
10/4/2017			0.1 (J)					0.47	<0.1
10/5/2017					<0.1		<0.1		

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Fluoride (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-30I (bg)
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
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			
4/2/2018									
4/3/2018									
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
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018				<0.1	<0.1	<0.1			
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	<0.1	0.052 (J)	0.13 (J)					0.53	
3/4/2019				0.19 (J)	<0.1	<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)					0.45	<0.1
4/2/2019									
4/3/2019				0.047 (J)	<0.1	<0.1			
6/12/2019									
8/19/2019									
8/20/2019									
8/21/2019									
9/24/2019	<0.1	0.063 (J)		0.05 (J)		<0.1			
9/25/2019			0.1 (J)		<0.1		<0.1	0.46	<0.1
9/26/2019									
10/8/2019									
10/9/2019									
10/10/2019				0.16 (J)		1.1			
2/10/2020	<0.1	0.061 (J)							

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Fluoride (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-30I (bg)
2/11/2020			0.094 (J)						
2/12/2020				<0.1	<0.1	<0.1	<0.1	0.4	<0.1
3/17/2020									
3/18/2020	<0.1						<0.1		
3/19/2020		0.064 (J)	0.11 (J)					0.51	<0.1
3/24/2020				<0.1		<0.1			
3/25/2020					<0.1				
8/26/2020									
8/27/2020									
9/22/2020				0.056 (J)	<0.1	<0.1			
9/23/2020	<0.1	0.058 (J)	0.098 (J)					0.47	
9/24/2020									<0.1
9/25/2020							<0.1		
2/8/2021				0.055 (J)		<0.1			
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
3/2/2021				<0.1		<0.1	<0.1		
3/3/2021	<0.1	0.078 (J)	0.1		<0.1			0.44	
3/4/2021									
8/19/2021	<0.1	0.074 (J)					<0.1	0.47	<0.1
8/20/2021									
8/26/2021				0.061 (J)	<0.1	<0.1			
8/27/2021			0.12						
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	<0.1	0.057 (J)	0.097 (J)					0.43	
2/10/2022				0.055 (J)		<0.1	<0.1		
2/11/2022					<0.1				<0.1
8/30/2022		0.093 (J)		0.085 (J)		<0.1			
8/31/2022	0.065 (J)		0.13		0.061 (J)		0.053 (J)	0.42	0.06 (J)
2/7/2023	0.071 (J)	0.093 (J)		0.082 (J)					
2/8/2023			0.16				0.059 (J)	0.56	0.064 (J)
2/9/2023					0.067 (J)	<0.1			
8/15/2023	<0.1	0.057 (J)		<0.1	<0.1	<0.1	<0.1	0.42	
8/16/2023			0.11						<0.1
2/20/2024	<0.1	0.086 (J)	0.12	0.076 (J)	0.059 (J)	<0.1		0.45	0.051 (J)
2/23/2024							<0.1		
8/20/2024	<0.1	0.066 (J)	0.12	0.058 (J)	<0.1	<0.1	<0.1	0.45	<0.1
8/21/2024									
2/25/2025	0.06 (J)	0.094 (J)	0.14	0.082 (J)	0.061 (J)	<0.1	0.052 (J)	0.45	0.062 (J)

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Fluoride (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)
6/1/2016									
6/2/2016									
6/6/2016	<0.1	<0.1							
6/7/2016			<0.1	<0.1	<0.1				
7/25/2016									
7/26/2016									
7/27/2016	<0.1	<0.1		<0.1	<0.1				
7/28/2016			0.02 (J)						
8/30/2016						0.09 (J)			
8/31/2016							0.14 (J)		
9/13/2016									
9/14/2016								0.08 (J)	
9/15/2016									
9/16/2016		<0.1		<0.1					
9/19/2016	<0.1		0.02 (J)		<0.1				
11/1/2016									
11/2/2016					<0.1				
11/3/2016	<0.1	<0.1	0.07 (J)	<0.1					
11/4/2016								0.12 (J)	
11/14/2016						0.18 (J)			
11/28/2016							0.12 (J)		
12/15/2016								0.06 (J)	
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 (J)	
2/21/2017									
2/22/2017							0.09 (J)		
2/24/2017						0.05 (J)			
3/1/2017	0.03 (J)	0.03 (J)							
3/2/2017				0.04 (J)					
3/3/2017								0.11 (J)	
3/6/2017			0.09 (J)		0.04 (J)				
3/7/2017									
3/8/2017									
4/26/2017	<0.1	<0.1	0.04 (J)		<0.1				
4/27/2017									
4/28/2017								0.06 (J)	
5/1/2017									
5/2/2017				<0.1					
5/8/2017						0.03 (J)	0.05 (J)		
5/26/2017								0.09 (J)	
6/27/2017									
6/28/2017	<0.1	<0.1						0.11 (J)	
6/29/2017			0.05 (J)	0.02 (J)	0.03 (J)				
6/30/2017									
7/11/2017						0.07 (J)			
7/17/2017							0.14 (J)		
10/3/2017			0.08 (J)					0.12 (J)	
10/4/2017		<0.1		<0.1	<0.1				
10/5/2017	<0.1								

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Fluoride (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)
10/10/2017						<0.1			
10/11/2017									<0.1
10/12/2017									
10/16/2017							0.12 (J)		
11/20/2017									<0.1
1/10/2018									
1/11/2018									<0.1
2/19/2018							<0.1		
2/20/2018									<0.1
3/27/2018									
3/28/2018	<0.1	<0.1		<0.1				0.31	
3/29/2018			<0.1		<0.1				
4/2/2018						<0.1			
4/3/2018									<0.1
6/5/2018			0.13 (J)						
6/6/2018					<0.1				
6/7/2018	<0.1							0.11 (J)	
6/8/2018									
6/11/2018		<0.1		<0.1					
6/28/2018									<0.1
8/6/2018							0.087 (J)		
8/7/2018									0.048 (J)
9/19/2018						<0.1			
9/24/2018									<0.1
9/25/2018	<0.1	<0.1	0.029 (J)	<0.1	<0.1				
9/26/2018									
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		<0.1	0.32	<0.1	<0.1				
3/6/2019	<0.1								
3/26/2019									
3/27/2019						0.081 (J)			<0.1
3/28/2019									
3/29/2019								0.13 (J)	
4/1/2019									
4/2/2019			0.12 (J)	<0.1					
4/3/2019	<0.1	<0.1			<0.1				
6/12/2019							0.12 (J)		
8/19/2019							<0.1		
8/20/2019						<0.1			
8/21/2019									<0.1
9/24/2019			0.15 (J)					0.081 (J)	
9/25/2019				<0.1	<0.1				
9/26/2019	<0.1	<0.1							
10/8/2019						0.034 (J)	0.052 (J)		
10/9/2019									<0.1
10/10/2019			0.11 (J)	<0.1	0.099 (J)				
2/10/2020									

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Fluoride (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)
2/11/2020	<0.1	<0.1		<0.1				0.075 (J)	
2/12/2020			0.1 (J)		<0.1				<0.1
3/17/2020						<0.1	0.053 (J)		
3/18/2020									
3/19/2020								0.093 (J)	
3/24/2020	<0.1	<0.1	0.081 (J)	<0.1	<0.1				
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	<0.1	<0.1		<0.1				0.08 (J)	
9/24/2020			0.079 (J)		<0.1				<0.1
9/25/2020									
2/8/2021									
2/9/2021	<0.1	<0.1	0.092 (J)	<0.1	<0.1				
2/10/2021								0.094 (J)	<0.1
2/11/2021									
2/12/2021									
3/1/2021						<0.1			
3/2/2021							0.073 (J)		
3/3/2021	<0.1	<0.1		<0.1	<0.1			0.085 (J)	
3/4/2021			0.091 (J)						<0.1
8/19/2021						<0.1			
8/20/2021							0.06 (J)		
8/26/2021		<0.1							0.063 (J)
8/27/2021	<0.1			<0.1	<0.1			0.12	
9/1/2021			0.11						
9/3/2021									
2/8/2022						<0.1	0.064 (J)		0.052 (J)
2/9/2022	<0.1	<0.1	0.1	<0.1	<0.1			0.094 (J)	
2/10/2022									
2/11/2022									
8/30/2022	<0.1	<0.1	0.1	<0.1			0.086 (J)	0.12	
8/31/2022					<0.1	0.065 (J)			0.065 (J)
2/7/2023	<0.1	<0.1	0.1	<0.1	<0.1		0.095 (J)	0.12	0.076 (J)
2/8/2023						0.077 (J)			
2/9/2023									
8/15/2023	<0.1	<0.1	0.061 (J)	<0.1	<0.1	<0.1	0.065 (J)	0.081 (J)	<0.1
8/16/2023									
2/20/2024	<0.1		0.083 (J)	<0.1	<0.1	0.073 (J)	0.094 (J)	0.1	0.063 (J)
2/23/2024		<0.1							
8/20/2024	<0.1		0.062 (J)	<0.1	<0.1	<0.1		0.085 (J)	
8/21/2024		0.051 (J)							0.083 (J)
2/25/2025	<0.1	<0.1	0.088 (J)	<0.1	<0.1	0.069 (J)		0.12	0.078 (J)

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Fluoride (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-40 (bg)
6/1/2016	
6/2/2016	
6/6/2016	
6/7/2016	
7/25/2016	
7/26/2016	
7/27/2016	
7/28/2016	
8/30/2016	
8/31/2016	
9/13/2016	
9/14/2016	
9/15/2016	
9/16/2016	
9/19/2016	
11/1/2016	
11/2/2016	
11/3/2016	
11/4/2016	
11/14/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	
1/12/2017	
1/13/2017	
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
3/1/2017	
3/2/2017	
3/3/2017	
3/6/2017	
3/7/2017	
3/8/2017	
4/26/2017	
4/27/2017	
4/28/2017	
5/1/2017	
5/2/2017	
5/8/2017	
5/26/2017	
6/27/2017	
6/28/2017	
6/29/2017	
6/30/2017	
7/11/2017	
7/17/2017	
10/3/2017	
10/4/2017	
10/5/2017	

Tolerance Limit

Constituent: Fluoride (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-40 (bg)
10/10/2017	
10/11/2017	
10/12/2017	<0.1
10/16/2017	
11/20/2017	<0.1
1/10/2018	<0.1
1/11/2018	
2/19/2018	<0.1
2/20/2018	
3/27/2018	
3/28/2018	
3/29/2018	
4/2/2018	
4/3/2018	<0.1
6/5/2018	
6/6/2018	
6/7/2018	
6/8/2018	
6/11/2018	
6/28/2018	<0.1
8/6/2018	
8/7/2018	<0.1
9/19/2018	
9/24/2018	<0.1
9/25/2018	
9/26/2018	
10/1/2018	
10/2/2018	
2/25/2019	
2/26/2019	
2/27/2019	
3/4/2019	
3/5/2019	
3/6/2019	
3/26/2019	<0.1
3/27/2019	
3/28/2019	
3/29/2019	
4/1/2019	
4/2/2019	
4/3/2019	
6/12/2019	
8/19/2019	
8/20/2019	
8/21/2019	<0.1
9/24/2019	
9/25/2019	
9/26/2019	
10/8/2019	
10/9/2019	<0.1
10/10/2019	
2/10/2020	

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Fluoride (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-40 (bg)
2/11/2020	
2/12/2020	<0.1
3/17/2020	
3/18/2020	
3/19/2020	
3/24/2020	<0.1
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	
9/24/2020	<0.1
9/25/2020	
2/8/2021	
2/9/2021	
2/10/2021	<0.1
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	
3/4/2021	<0.1
8/19/2021	
8/20/2021	
8/26/2021	
8/27/2021	
9/1/2021	
9/3/2021	<0.1
2/8/2022	<0.1
2/9/2022	
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	0.05 (J)
2/7/2023	
2/8/2023	<0.1
2/9/2023	
8/15/2023	<0.1
8/16/2023	
2/20/2024	<0.1
2/23/2024	
8/20/2024	
8/21/2024	0.06 (J)
2/25/2025	0.053 (J)

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Lead (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-5D (bg)
5/1/2007	<0.001								
9/12/2007	<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		<0.001	0.00056 (J)	<0.001					
6/2/2016					<0.001	0.00056 (J)	<0.001	<0.001	<0.001
6/6/2016									
6/7/2016									
7/21/2016	<0.001								
7/25/2016		<0.001		<0.001	<0.001				
7/26/2016			<0.001			0.0001 (J)	<0.001	<0.001	<0.001
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016	<0.001								
9/13/2016			0.0001 (J)	<0.001					
9/14/2016		<0.001					<0.001	<0.001	<0.001
9/15/2016						0.0002 (J)			
9/16/2016									
9/19/2016					<0.001				
11/1/2016		<0.001	<0.001		<0.001	<0.001			
11/2/2016								<0.001	<0.001
11/3/2016									
11/4/2016				<0.001			<0.001		
11/14/2016									
11/28/2016	<0.001								
12/15/2016									
1/10/2017									
1/11/2017		<0.001	<0.001			<0.001			
1/12/2017							<0.001		<0.001
1/13/2017								<0.001	
1/16/2017				<0.001	<0.001				
2/21/2017					<0.001				
2/22/2017	<0.001								
2/24/2017									
3/1/2017		<0.001							
3/2/2017			0.0001 (J)	<0.001		0.0002 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Lead (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-5D (bg)
3/3/2017									
3/6/2017								<0.001	
3/7/2017							7E-05 (J)		0.0001 (J)
3/8/2017									
4/26/2017		<0.001			<0.001	<0.001			
4/27/2017			<0.001	<0.001					
4/28/2017									
5/1/2017								<0.001	<0.001
5/2/2017							<0.001		
5/8/2017	<0.001								
5/26/2017									
6/27/2017			<0.001	<0.001			<0.001		<0.001
6/28/2017		<0.001				<0.001			
6/29/2017								<0.001	
6/30/2017					<0.001				
7/11/2017									
7/17/2017	<0.001								
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017	<0.001								
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018	<0.001								
2/20/2018									
3/27/2018				<0.001	<0.001				
3/28/2018		<0.001				<0.001			
3/29/2018			<0.001				<0.001	<0.001	<0.001
4/2/2018									
4/3/2018									
6/28/2018									
8/6/2018	<0.001								
8/7/2018									
9/19/2018									
9/24/2018									
2/25/2019	<0.001								
2/26/2019					<0.001				
2/27/2019		<0.001	<0.001	<0.001		<0.001			
3/4/2019							<0.001	<0.001	<0.001
3/5/2019									
3/6/2019									
4/2/2019									
4/3/2019							<0.001	<0.001	<0.001
6/12/2019	<0.001								
8/19/2019	<0.001								
8/20/2019									
8/21/2019									
9/24/2019							9E-05 (J)		<0.001
9/25/2019								<0.001	
9/26/2019									
10/8/2019	<0.001								

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Lead (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-5D (bg)
10/9/2019									
2/10/2020			4.9E-05 (J)	<0.001					
2/11/2020		<0.001							
2/12/2020					<0.001	<0.001	<0.001	<0.001	<0.001
3/17/2020	<0.001								
3/18/2020				<0.001					
3/19/2020		<0.001	0.00012 (J)		<0.001	0.00017 (J)			
3/24/2020							6.8E-05 (J)		5.4E-05 (J)
3/25/2020								<0.001	
8/26/2020	<0.001								
8/27/2020									
9/22/2020	0.0001 (J)						4.2E-05 (J)	<0.001	4.5E-05 (J)
9/23/2020		0.00015 (J)	<0.001	0.00021 (J)		<0.001			
9/24/2020					<0.001				
9/25/2020									
2/8/2021							3.7E-05 (J)		0.00013 (J)
2/9/2021								<0.001	
2/10/2021		<0.001				<0.001			
2/11/2021					4.6E-05 (J)				
2/12/2021			4.4E-05 (J)	0.00038 (J)					
3/1/2021					<0.001				
3/2/2021	<0.001						9.2E-05 (J)		5.1E-05 (J)
3/3/2021		<0.001	5.6E-05 (J)	<0.001		<0.001		<0.001	
3/4/2021									
8/19/2021			<0.001	<0.001	<0.001	<0.001			
8/20/2021	<0.001								
8/26/2021							<0.001	<0.001	<0.001
8/27/2021		<0.001							
9/1/2021									
9/3/2021									
2/8/2022	<0.001								
2/9/2022		<0.001	<0.001	<0.001		<0.001			
2/10/2022							<0.001		<0.001
2/11/2022					<0.001			<0.001	
8/30/2022	<0.001		<0.001				<0.001		<0.001
8/31/2022		<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			
2/9/2023							<0.001	<0.001	
8/15/2023	<0.001		<0.001	<0.001		<0.001	<0.001	<0.001	<0.001
8/16/2023		<0.001			<0.001				
2/20/2024	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/23/2024									
8/20/2024		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/21/2024									
2/25/2025		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Lead (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)
5/1/2007									
9/12/2007									
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									
6/2/2016	<0.001								
6/6/2016		<0.001	<0.001						
6/7/2016				<0.001	<0.001	<0.001			
7/21/2016									
7/25/2016									
7/26/2016	<0.001								
7/27/2016		<0.001	<0.001		<0.001	<0.001			
7/28/2016				<0.001					
8/30/2016							<0.001		
8/31/2016									
9/13/2016									
9/14/2016								<0.001	
9/15/2016	<0.001								
9/16/2016		<0.001				<0.001			
9/19/2016			<0.001	<0.001	<0.001				
11/1/2016									
11/2/2016	<0.001				0.0013 (J)				
11/3/2016		<0.001	<0.001	<0.001		<0.001			
11/4/2016								<0.001	
11/14/2016							<0.001		
11/28/2016									
12/15/2016								<0.001	
1/10/2017	<0.001								
1/11/2017		<0.001	<0.001			<0.001			
1/12/2017									
1/13/2017				<0.001	<0.001				
1/16/2017								<0.001	
2/21/2017									
2/22/2017									
2/24/2017							<0.001		
3/1/2017		0.0001 (J)	<0.001						
3/2/2017						8E-05 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Lead (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)
3/3/2017								<0.001	
3/6/2017				<0.001	<0.001				
3/7/2017									
3/8/2017	0.0001 (J)								
4/26/2017	<0.001	0.0001 (J)	<0.001	<0.001	<0.001				
4/27/2017									
4/28/2017								<0.001	
5/1/2017									
5/2/2017						<0.001			
5/8/2017							<0.001		
5/26/2017								<0.001	
6/27/2017									
6/28/2017		0.0001 (J)	<0.001					<0.001	
6/29/2017				<0.001	<0.001	8E-05 (J)			
6/30/2017	<0.001								
7/11/2017							<0.001		
7/17/2017									
10/10/2017							<0.001		
10/11/2017									0.0001 (J)
10/12/2017									
10/16/2017									
11/20/2017									<0.001
1/10/2018									
1/11/2018									0.0002 (J)
2/19/2018									
2/20/2018									<0.001
3/27/2018	<0.001								
3/28/2018		<0.001	<0.001			<0.001		<0.001	
3/29/2018				<0.001	<0.001				
4/2/2018							<0.001		
4/3/2018									<0.001
6/28/2018									<0.001
8/6/2018									
8/7/2018									<0.001
9/19/2018							<0.001		
9/24/2018									<0.001
2/25/2019									
2/26/2019	<0.001								
2/27/2019								<0.001	
3/4/2019									
3/5/2019		<0.001		<0.001	<0.001	<0.001			
3/6/2019			<0.001						
4/2/2019				<0.001		<0.001			
4/3/2019		<0.001	<0.001		<0.001				
6/12/2019									
8/19/2019									
8/20/2019							<0.001		
8/21/2019									<0.001
9/24/2019				<0.001					
9/25/2019					<0.001	<0.001			
9/26/2019		<0.001	<0.001						
10/8/2019									

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Lead (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)
10/9/2019									<0.001
2/10/2020									
2/11/2020		<0.001	<0.001			<0.001		<0.001	
2/12/2020	<0.001			<0.001	<0.001				<0.001
3/17/2020									
3/18/2020	<0.001								
3/19/2020								<0.001	
3/24/2020		5.4E-05 (J)	7.1E-05 (J)	<0.001	0.00011 (J)	6.4E-05 (J)			
3/25/2020									5.1E-05 (J)
8/26/2020									
8/27/2020							<0.001		
9/22/2020							<0.001		
9/23/2020		9.7E-05 (J)	6E-05 (J)			4.1E-05 (J)		0.0011 (J)	
9/24/2020				4.6E-05 (J)	9.2E-05 (J)				<0.001
9/25/2020	<0.001								
2/8/2021									
2/9/2021		9.4E-05 (J)	5E-05 (J)	<0.001	6.3E-05 (J)	<0.001			
2/10/2021	4.8E-05 (J)							0.00015 (J)	<0.001
2/11/2021									
2/12/2021									
3/1/2021							<0.001		
3/2/2021	<0.001								
3/3/2021		7.6E-05 (J)	<0.001		4.5E-05 (J)	<0.001		<0.001	
3/4/2021				<0.001					<0.001
8/19/2021	<0.001						<0.001		
8/20/2021									
8/26/2021		<0.001							<0.001
8/27/2021			<0.001		<0.001	<0.001		<0.001	
9/1/2021				<0.001					
9/3/2021									
2/8/2022							<0.001		<0.001
2/9/2022		<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	
2/10/2022	<0.001								
2/11/2022									
8/30/2022		<0.001	<0.001	<0.001		<0.001		<0.001	
8/31/2022	<0.001				<0.001		<0.001		<0.001
2/7/2023		<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001
2/8/2023	<0.001						<0.001		
2/9/2023									
8/15/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/16/2023									
2/20/2024			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/23/2024	<0.001	<0.001							
8/20/2024	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
8/21/2024		<0.001							<0.001
2/25/2025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Lead (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-40 (bg)
5/1/2007	
9/12/2007	
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	
6/2/2016	
6/6/2016	
6/7/2016	
7/21/2016	
7/25/2016	
7/26/2016	
7/27/2016	
7/28/2016	
8/30/2016	
8/31/2016	
9/13/2016	
9/14/2016	
9/15/2016	
9/16/2016	
9/19/2016	
11/1/2016	
11/2/2016	
11/3/2016	
11/4/2016	
11/14/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	
1/12/2017	
1/13/2017	
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
3/1/2017	
3/2/2017	

Tolerance Limit

Constituent: Lead (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-40 (bg)
3/3/2017	
3/6/2017	
3/7/2017	
3/8/2017	
4/26/2017	
4/27/2017	
4/28/2017	
5/1/2017	
5/2/2017	
5/8/2017	
5/26/2017	
6/27/2017	
6/28/2017	
6/29/2017	
6/30/2017	
7/11/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/12/2017	9E-05 (J)
10/16/2017	
11/20/2017	<0.001
1/10/2018	<0.001
1/11/2018	
2/19/2018	<0.001
2/20/2018	
3/27/2018	
3/28/2018	
3/29/2018	
4/2/2018	
4/3/2018	<0.001
6/28/2018	<0.001
8/6/2018	
8/7/2018	<0.001
9/19/2018	
9/24/2018	<0.001
2/25/2019	
2/26/2019	
2/27/2019	
3/4/2019	
3/5/2019	
3/6/2019	
4/2/2019	
4/3/2019	
6/12/2019	
8/19/2019	
8/20/2019	
8/21/2019	<0.001
9/24/2019	
9/25/2019	
9/26/2019	
10/8/2019	

Tolerance Limit

Constituent: Lead (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-40 (bg)
10/9/2019	<0.001
2/10/2020	
2/11/2020	
2/12/2020	<0.001
3/17/2020	
3/18/2020	
3/19/2020	
3/24/2020	<0.001
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	
9/24/2020	3.8E-05 (J)
9/25/2020	
2/8/2021	
2/9/2021	
2/10/2021	<0.001
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	
3/4/2021	<0.001
8/19/2021	
8/20/2021	
8/26/2021	
8/27/2021	
9/1/2021	
9/3/2021	<0.001
2/8/2022	<0.001
2/9/2022	
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	
8/15/2023	<0.001
8/16/2023	
2/20/2024	<0.001
2/23/2024	
8/20/2024	
8/21/2024	<0.001
2/25/2025	<0.001

Tolerance Limit

Constituent: Lithium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/1/2016	<0.03	0.015	0.01						
6/2/2016				<0.03	0.013	0.018	<0.03	0.0049 (J)	<0.03
6/6/2016									
6/7/2016									
7/25/2016	0.002 (J)		0.0132 (J)				<0.03		
7/26/2016		0.0135 (J)		<0.03	0.0123 (J)	0.0221 (J)		0.0063 (J)	0.0027 (J)
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016									
9/13/2016	<0.03	0.0112 (J)							
9/14/2016			0.012 (J)		0.0137 (J)			0.0058 (J)	0.0029 (J)
9/15/2016				<0.03		0.0197 (J)			
9/16/2016									
9/19/2016							<0.03		
11/1/2016		0.0163 (J)	0.0115 (J)			0.0194 (J)	<0.03		
11/2/2016				<0.03	0.0136 (J)			0.0053 (J)	
11/3/2016									
11/4/2016	<0.03								<0.03
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017				<0.03					
1/11/2017		0.0166 (J)	0.0085 (J)			0.0177 (J)			
1/12/2017								0.0054 (J)	0.0032 (J)
1/13/2017					0.0121 (J)				
1/16/2017	0.0023 (J)						<0.03		
2/21/2017							<0.03		
2/22/2017									
2/24/2017									
3/1/2017			0.0114 (J)						
3/2/2017	0.0025 (J)	0.0159 (J)				0.0185 (J)			
3/3/2017									
3/6/2017					0.0143 (J)				
3/7/2017								0.0056 (J)	0.0035 (J)
3/8/2017				<0.03					
4/26/2017			0.0092 (J)	<0.03		0.0183 (J)	<0.03		
4/27/2017	0.0027 (J)	0.0137 (J)							
4/28/2017									
5/1/2017					0.0132 (J)			0.0031 (J)	
5/2/2017									0.0031 (J)
5/8/2017									
5/26/2017									
6/27/2017	0.0024 (J)	0.0094 (J)						0.0018 (J)	0.0029 (J)
6/28/2017			0.0085 (J)			0.0173 (J)			
6/29/2017					0.0145 (J)				
6/30/2017				<0.03			<0.03		
7/11/2017									
7/17/2017									
10/10/2017									
10/11/2017									
10/12/2017									

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Lithium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
3/27/2018	0.0023 (J)			<0.03			0.0011 (J)		
3/28/2018			0.013 (J)			0.02 (J)			
3/29/2018		0.0078 (J)			0.014 (J)			0.0058 (J)	0.0034 (J)
4/2/2018									
4/3/2018									
6/5/2018		0.0079 (J)							
6/6/2018	0.0024 (J)							0.0068 (J)	
6/7/2018					0.013 (J)	0.02 (J)			0.0032 (J)
6/8/2018			0.012 (J)	<0.03					
6/11/2018							0.0012 (J)		
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					0.014 (J)			0.0065 (J)	0.0032 (J)
10/1/2018	0.0023 (J)	0.0053 (J)	0.011 (J)	<0.03		0.02 (J)			
10/2/2018							<0.03		
2/26/2019				<0.03			0.0011 (J)		
2/27/2019	0.0023 (J)	0.0093 (J)	0.014 (J)			0.021 (J)			
3/4/2019					0.015 (J)			0.0065 (J)	0.0032 (J)
3/5/2019									
3/6/2019									
3/28/2019	0.0022 (J)	0.013 (J)							
3/29/2019				<0.03					
4/1/2019			0.013 (J)			0.021 (J)	0.001 (J)		
4/2/2019									
4/3/2019					0.014 (J)			0.007 (J)	0.0035 (J)
8/19/2019									
8/20/2019									
8/21/2019									
9/24/2019	0.0023 (J)	0.0046 (J)						0.0065 (J)	0.0031 (J)
9/25/2019			0.01 (J)	<0.03	0.014 (J)	0.02 (J)	0.0011 (J)		
9/26/2019									
10/8/2019									
10/9/2019									
2/10/2020	0.0023 (J)	0.011 (J)							
2/11/2020			0.013 (J)						
2/12/2020				<0.03	0.011 (J)	0.019 (J)	0.0013 (J)	0.0066 (J)	0.0032 (J)
3/17/2020									
3/18/2020	0.0024 (J)			<0.03					
3/19/2020		0.013 (J)	0.014 (J)			0.023 (J)	0.0012 (J)		
3/24/2020								0.0064 (J)	0.0033 (J)
3/25/2020					0.014 (J)				
8/26/2020									

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Lithium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
8/27/2020									
9/22/2020					0.013 (J)			0.0066 (J)	0.0034 (J)
9/23/2020	0.0024 (J)	0.014 (J)	0.013 (J)			0.023 (J)			
9/24/2020							0.0011 (J)		
9/25/2020				<0.03					
2/8/2021								0.0063 (J)	0.0032 (J)
2/9/2021					0.011 (J)				
2/10/2021			0.015 (J)	<0.03		0.023 (J)			
2/11/2021							0.0012 (J)		
2/12/2021	0.0025 (J)	0.01 (J)							
3/1/2021							0.0011 (J)		
3/2/2021				<0.03				0.0018 (J)	0.0031 (J)
3/3/2021	0.0025 (J)	0.012 (J)	0.017 (J)		0.012 (J)	0.024 (J)			
3/4/2021									
8/19/2021	0.0023 (J)	0.013 (J)		<0.03		0.023 (J)	0.0012 (J)		
8/20/2021									
8/26/2021					0.0094 (J)			0.0075 (J)	0.0032 (J)
8/27/2021			0.026 (J)						
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	0.0027 (J)	0.013 (J)	0.021 (J)			0.026 (J)			
2/10/2022				<0.03				0.0076 (J)	0.0036 (J)
2/11/2022					0.012 (J)		0.0014 (J)		
8/30/2022		0.013 (J)						0.0068 (J)	0.0035 (J)
8/31/2022	<0.03		0.022 (J)	<0.03	0.013 (J)	0.021 (J)	0.0012 (J)		
2/7/2023	0.0029 (J)	0.006 (J)						0.0059 (J)	
2/8/2023			0.018 (J)	<0.03		0.023 (J)	0.0011 (J)		
2/9/2023					0.014 (J)				0.0036 (J)
8/15/2023	0.002 (J)	0.0079 (J)		<0.03	0.0083 (J)	0.023 (J)		0.0059 (J)	<0.03
8/16/2023			0.025 (J)				<0.03		
2/20/2024	<0.03	0.0071 (J)	0.02 (J)		0.014 (J)	0.021 (J)	<0.03	0.0056 (J)	0.0033 (J)
2/23/2024				<0.03					
8/20/2024	0.0023 (J)	0.0037 (J)	0.017 (J)	<0.03	0.011 (J)	0.021 (J)	<0.03	0.0024 (J)	0.0031 (J)
8/21/2024									
2/25/2025	0.0027 (J)	0.00366 (J)	0.0168 (J)	<0.03	0.0125 (J)	0.0219 (J)	0.00127 (J)	0.00582 (J)	0.00364 (J)

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Lithium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)
6/1/2016									
6/2/2016									
6/6/2016	0.015	0.0088							
6/7/2016			<0.03	0.0055	<0.03				
7/25/2016									
7/26/2016									
7/27/2016	0.0049 (J)	0.0087 (J)	<0.03		<0.03				
7/28/2016				0.0045 (J)					
8/30/2016						0.0061 (J)			
8/31/2016							<0.03		
9/13/2016									
9/14/2016								0.004 (J)	
9/15/2016									
9/16/2016	0.0031 (J)		<0.03						
9/19/2016		0.0043 (J)		0.0054 (J)	<0.03				
11/1/2016									
11/2/2016					<0.03				
11/3/2016	0.0021 (J)	<0.03	<0.03	<0.03					
11/4/2016								<0.03	
11/14/2016						0.0064 (J)			
11/28/2016							<0.03		
12/15/2016								0.0026 (J)	
1/10/2017									
1/11/2017	0.0025 (J)	0.0052 (J)	0.0035 (J)						
1/12/2017									
1/13/2017				0.0062 (J)	<0.03				
1/16/2017								0.0023 (J)	
2/21/2017									
2/22/2017							<0.03		
2/24/2017						0.0049 (J)			
3/1/2017	0.0029 (J)	0.0053 (J)							
3/2/2017			<0.03						
3/3/2017								0.0013 (J)	
3/6/2017				0.0059 (J)	<0.03				
3/7/2017									
3/8/2017									
4/26/2017	0.0019 (J)	0.0041 (J)		0.0054 (J)	<0.03				
4/27/2017									
4/28/2017								0.0031 (J)	
5/1/2017									
5/2/2017			<0.03						
5/8/2017						0.0053 (J)	0.0014 (J)		
5/26/2017								0.0038 (J)	
6/27/2017									
6/28/2017	0.0016 (J)	0.0039 (J)						0.0026 (J)	
6/29/2017			<0.03	0.0047 (J)	<0.03				
6/30/2017									
7/11/2017						0.0051 (J)			
7/17/2017							<0.03		
10/10/2017						0.0043 (J)			
10/11/2017									0.0018 (J)
10/12/2017									

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Lithium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)
10/16/2017							0.0016 (J)		
11/20/2017									0.0018 (J)
1/10/2018									
1/11/2018									0.0019 (J)
2/19/2018							<0.03		
2/20/2018									<0.03
3/27/2018									
3/28/2018	0.0024 (J)	0.0041 (J)	<0.03					0.0025 (J)	
3/29/2018				0.0062 (J)	<0.03				
4/2/2018						0.0045 (J)			
4/3/2018									0.0022 (J)
6/5/2018				0.0061 (J)					
6/6/2018					<0.03				
6/7/2018		0.0032 (J)						0.0017 (J)	
6/8/2018									
6/11/2018	0.0014 (J)		<0.03						
6/28/2018									0.0026 (J)
8/6/2018							<0.03		
8/7/2018									0.0024 (J)
9/19/2018						0.0043 (J)			
9/24/2018									0.0022 (J)
9/25/2018	0.0016 (J)	0.0036 (J)	<0.03	0.0062 (J)	<0.03				
9/26/2018									
10/1/2018								<0.03	
10/2/2018									
2/26/2019									
2/27/2019								0.0011 (J)	
3/4/2019									
3/5/2019	0.0031 (J)		<0.03	0.0053 (J)	<0.03				
3/6/2019		0.0033 (J)							
3/28/2019									
3/29/2019								0.0016 (J)	
4/1/2019									
4/2/2019			<0.03	0.0051 (J)					
4/3/2019	0.0028 (J)	0.0035 (J)			<0.03				
8/19/2019							0.0019 (J)		
8/20/2019						0.0036 (J)			
8/21/2019									0.0035 (J)
9/24/2019				0.0068 (J)				0.0011 (J)	
9/25/2019			<0.03		<0.03				
9/26/2019	0.0029 (J)	0.0032 (J)							
10/8/2019						0.0036 (J)	0.0015 (J)		
10/9/2019									0.0036 (J)
2/10/2020									
2/11/2020	0.005 (J)	0.0033 (J)	<0.03					0.0012 (J)	
2/12/2020				0.0065 (J)	<0.03				0.0041 (J)
3/17/2020						0.0046 (J)	0.0017 (J)		
3/18/2020									
3/19/2020								0.0022 (J)	
3/24/2020	0.0035 (J)	0.0033 (J)	0.0034 (J)	0.0064 (J)	<0.03				
3/25/2020									0.0049 (J)
8/26/2020							0.0032 (J)		

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Lithium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)
8/27/2020						0.0039 (J)			
9/22/2020						0.0036 (J)	0.0029 (J)		
9/23/2020	0.0022 (J)	0.003 (J)	<0.03					0.0016 (J)	
9/24/2020				0.0069 (J)	<0.03				0.0054 (J)
9/25/2020									
2/8/2021									
2/9/2021	0.0019 (J)	0.0031 (J)	<0.03	0.006 (J)	<0.03				
2/10/2021								0.0039 (J)	0.0071 (J)
2/11/2021									
2/12/2021									
3/1/2021						0.0037 (J)			
3/2/2021							0.0033 (J)		
3/3/2021	0.0021 (J)	0.0034 (J)	<0.03		<0.03			0.0016 (J)	
3/4/2021				0.0062 (J)					0.0084 (J)
8/19/2021						0.0038 (J)			
8/20/2021							0.0028 (J)		
8/26/2021	0.0019 (J)								0.0082 (J)
8/27/2021		0.0032 (J)	<0.03		<0.03			0.0058 (J)	
9/1/2021				0.0057 (J)					
9/3/2021									
2/8/2022						0.0039 (J)	0.0031 (J)		0.008 (J)
2/9/2022	0.0015 (J)	0.0032 (J)	<0.03	0.0061 (J)	0.00082 (J)			0.006 (J)	
2/10/2022									
2/11/2022									
8/30/2022	0.0014 (J)	0.0036 (J)	<0.03	0.0079 (J)			0.0025 (J)	0.0044 (J)	
8/31/2022					<0.03	0.0037 (J)			0.0065 (J)
2/7/2023	0.0012 (J)	0.003 (J)	<0.03	0.0059 (J)	<0.03		0.0022 (J)	0.0047 (J)	0.0065 (J)
2/8/2023						0.0037 (J)			
2/9/2023									
8/15/2023	0.00077 (J)	<0.03	<0.03	0.0062 (J)	<0.03	0.004 (J)	<0.03	<0.03	0.0064 (J)
8/16/2023									
2/20/2024		0.0038 (J)	<0.03	0.0062 (J)	<0.03	0.0036 (J)	0.0024 (J)	0.0021 (J)	0.0059 (J)
2/23/2024	<0.03								
8/20/2024		0.0032 (J)	<0.03	0.0057 (J)	<0.03	0.0036 (J)		<0.03	
8/21/2024	0.0032 (J)								0.0055 (J)
2/25/2025	0.00129 (J)	0.00373 (J)	<0.03	0.0067 (J)	<0.03	0.00393 (J)		0.00111 (J)	0.00608 (J)

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Lithium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-40 (bg)
6/1/2016	
6/2/2016	
6/6/2016	
6/7/2016	
7/25/2016	
7/26/2016	
7/27/2016	
7/28/2016	
8/30/2016	
8/31/2016	
9/13/2016	
9/14/2016	
9/15/2016	
9/16/2016	
9/19/2016	
11/1/2016	
11/2/2016	
11/3/2016	
11/4/2016	
11/14/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	
1/12/2017	
1/13/2017	
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
3/1/2017	
3/2/2017	
3/3/2017	
3/6/2017	
3/7/2017	
3/8/2017	
4/26/2017	
4/27/2017	
4/28/2017	
5/1/2017	
5/2/2017	
5/8/2017	
5/26/2017	
6/27/2017	
6/28/2017	
6/29/2017	
6/30/2017	
7/11/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/12/2017	<0.03

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Lithium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-40 (bg)
10/16/2017	
11/20/2017	<0.03
1/10/2018	<0.03
1/11/2018	
2/19/2018	<0.03
2/20/2018	
3/27/2018	
3/28/2018	
3/29/2018	
4/2/2018	
4/3/2018	<0.03
6/5/2018	
6/6/2018	
6/7/2018	
6/8/2018	
6/11/2018	
6/28/2018	<0.03
8/6/2018	
8/7/2018	<0.03
9/19/2018	
9/24/2018	<0.03
9/25/2018	
9/26/2018	
10/1/2018	
10/2/2018	
2/26/2019	
2/27/2019	
3/4/2019	
3/5/2019	
3/6/2019	
3/28/2019	
3/29/2019	
4/1/2019	
4/2/2019	
4/3/2019	
8/19/2019	
8/20/2019	
8/21/2019	<0.03
9/24/2019	
9/25/2019	
9/26/2019	
10/8/2019	
10/9/2019	<0.03
2/10/2020	
2/11/2020	
2/12/2020	<0.03
3/17/2020	
3/18/2020	
3/19/2020	
3/24/2020	<0.03
3/25/2020	
8/26/2020	

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Lithium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-40 (bg)
8/27/2020	
9/22/2020	
9/23/2020	
9/24/2020	<0.03
9/25/2020	
2/8/2021	
2/9/2021	
2/10/2021	<0.03
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	
3/4/2021	<0.03
8/19/2021	
8/20/2021	
8/26/2021	
8/27/2021	
9/1/2021	
9/3/2021	<0.03
2/8/2022	0.00076 (J)
2/9/2022	
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	<0.03
2/7/2023	
2/8/2023	0.00074 (J)
2/9/2023	
8/15/2023	<0.03
8/16/2023	
2/20/2024	<0.03
2/23/2024	
8/20/2024	
8/21/2024	<0.03
2/25/2025	0.000836 (J)

Tolerance Limit

Constituent: Mercury (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-4I (bg)
5/1/2007	<0.0002								
9/12/2007	<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	<0.0002					
6/2/2016					<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
6/6/2016									
6/7/2016									
7/21/2016	<0.0002								
7/25/2016		<0.0002		<0.0002	<0.0002				
7/26/2016			<0.0002			<0.0002	<0.0002	<0.0002	<0.0002
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016	<0.0002								
9/13/2016			<0.0002	<0.0002					
9/14/2016		<0.0002					<0.0002	<0.0002	<0.0002
9/15/2016						<0.0002			
9/16/2016									
9/19/2016					<0.0002				
11/1/2016		<0.0002	<0.0002		<0.0002	<0.0002			
11/2/2016							<0.0002		<0.0002
11/3/2016									
11/4/2016				<0.0002				<0.0002	
11/14/2016									
11/28/2016	<0.0002								
12/15/2016									
1/10/2017									
1/11/2017		<0.0002	<0.0002			<0.0002			
1/12/2017							<0.0002	<0.0002	
1/13/2017									<0.0002
1/16/2017				<0.0002	<0.0002				
2/21/2017					<0.0002				
2/22/2017	<0.0002								
2/24/2017									
3/1/2017		<0.0002							
3/2/2017			<0.0002	<0.0002		6E-05 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Mercury (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-4I (bg)
3/3/2017									
3/6/2017									0.00014 (J)
3/7/2017							0.0001 (J)	0.00013 (J)	
3/8/2017									
4/26/2017		<0.0002			<0.0002	<0.0002			
4/27/2017			<0.0002	<0.0002					
4/28/2017									
5/1/2017							<0.0002		<0.0002
5/2/2017								<0.0002	
5/8/2017	<0.0002								
5/26/2017									
6/27/2017			<0.0002	<0.0002			<0.0002	<0.0002	
6/28/2017		<0.0002				<0.0002			
6/29/2017									<0.0002
6/30/2017					6E-05 (J)				
7/11/2017									
7/17/2017	<0.0002								
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017	<0.0002								
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018	<0.0002								
2/20/2018									
3/27/2018				<0.0002	<0.0002				
3/28/2018		<0.0002				<0.0002			
3/29/2018			<0.0002				<0.0002	<0.0002	<0.0002
4/2/2018									
4/3/2018									
6/28/2018									
8/6/2018	<0.0002								
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018							<0.0002	<0.0002	<0.0002
2/25/2019	7.4E-05 (J)								
2/26/2019					6.8E-05 (J)				
2/27/2019		6.1E-05 (J)	5.1E-05 (J)	5.4E-05 (J)		6.2E-05 (J)			
3/4/2019							<0.0002	<0.0002	<0.0002
3/5/2019									
3/6/2019									
3/28/2019			4E-05 (J)	<0.0002					
3/29/2019									
4/1/2019		8.4E-05 (J)			8.2E-05 (J)	9.6E-05 (J)			
6/12/2019	<0.0002								
8/19/2019	<0.0002								
8/20/2019									
8/21/2019									
9/24/2019			<0.0002	<0.0002					

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Mercury (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-4I (bg)
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	<0.0002	<0.0002
5/6/2020	<0.0002								
8/26/2020	<0.0002								
8/27/2020									
9/22/2020	<0.0002								
2/8/2021							<0.0002	<0.0002	
2/9/2021									<0.0002
2/10/2021		<0.0002				<0.0002			
2/11/2021					<0.0002				
2/12/2021			<0.0002	<0.0002					
3/2/2021	<0.0002						<0.0002	<0.0002	
3/3/2021									<0.0002
3/4/2021									
8/19/2021									
8/20/2021	<0.0002								
8/26/2021							<0.0002	<0.0002	<0.0002
8/27/2021									
9/1/2021									
9/3/2021									
2/8/2022	<0.0002								
2/9/2022		<0.0002	<0.0002	<0.0002		<0.0002			
2/10/2022							<0.0002	<0.0002	
2/11/2022					<0.0002				<0.0002
8/30/2022	<0.0002		<0.0002				<0.0002	<0.0002	
8/31/2022		<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			
2/9/2023								<0.0002	<0.0002
8/15/2023	<0.0002		0.00015 (J)	0.00015 (J)		0.00014 (J)	0.00015 (J)	0.00014 (J)	0.00013 (J)
8/16/2023		<0.0002			<0.0002				
2/20/2024	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/23/2024									
8/20/2024		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/21/2024									
2/25/2025		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Mercury (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)
5/1/2007									
9/12/2007									
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									
6/2/2016	<0.0002								
6/6/2016		7.6E-05 (J)	7.4E-05 (J)						
6/7/2016				9.5E-05 (J)	9.6E-05 (J)	9.6E-05 (J)			
7/21/2016									
7/25/2016									
7/26/2016	<0.0002								
7/27/2016		<0.0002	<0.0002	<0.0002	<0.0002				
7/28/2016						<0.0002			
8/30/2016							<0.0002		
8/31/2016									
9/13/2016									
9/14/2016								<0.0002	
9/15/2016	<0.0002								
9/16/2016		<0.0002		<0.0002					
9/19/2016			<0.0002		<0.0002	<0.0002			
11/1/2016									
11/2/2016	<0.0002				<0.0002				
11/3/2016		<0.0002	<0.0002	<0.0002		<0.0002			
11/4/2016								<0.0002	
11/14/2016							<0.0002		
11/28/2016									
12/15/2016								<0.0002	
1/10/2017	<0.0002								
1/11/2017		<0.0002	<0.0002	<0.0002					
1/12/2017									
1/13/2017					<0.0002	<0.0002			
1/16/2017								<0.0002	
2/21/2017									
2/22/2017									
2/24/2017							<0.0002		
3/1/2017		<0.0002	<0.0002						
3/2/2017				<0.0002					

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Mercury (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)
3/3/2017								<0.0002	
3/6/2017					0.00014 (J)	0.00014 (J)			
3/7/2017									
3/8/2017	0.00012 (J)								
4/26/2017	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002			
4/27/2017									
4/28/2017								<0.0002	
5/1/2017									
5/2/2017				<0.0002					
5/8/2017							<0.0002		
5/26/2017								<0.0002	
6/27/2017									
6/28/2017		<0.0002	<0.0002					<0.0002	
6/29/2017				<0.0002	5.3E-05 (J)	<0.0002			
6/30/2017	<0.0002								
7/11/2017							<0.0002		
7/17/2017									
10/10/2017							<0.0002		
10/11/2017									<0.0002
10/12/2017									
10/16/2017									
11/20/2017									7E-05 (J)
1/10/2018									
1/11/2018									<0.0002
2/19/2018									
2/20/2018									<0.0002
3/27/2018	<0.0002								
3/28/2018		<0.0002	<0.0002	<0.0002				<0.0002	
3/29/2018					<0.0002	<0.0002			
4/2/2018							<0.0002		
4/3/2018									<0.0002
6/28/2018									<0.0002
8/6/2018									
8/7/2018									<0.0002
9/19/2018							5.3E-05 (J)		
9/24/2018									<0.0002
9/25/2018		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			
9/26/2018									
2/25/2019									
2/26/2019	6.1E-05 (J)								
2/27/2019								<0.0002	
3/4/2019									
3/5/2019		<0.0002		<0.0002	<0.0002	<0.0002			
3/6/2019			<0.0002						
3/28/2019									
3/29/2019	<0.0002							<0.0002	
4/1/2019									
6/12/2019									
8/19/2019									
8/20/2019							<0.0002		
8/21/2019									<0.0002
9/24/2019								<0.0002	

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Mercury (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)
9/25/2019	<0.0002								
10/8/2019									
2/10/2020									
2/11/2020		<0.0002	<0.0002	<0.0002				<0.0002	
2/12/2020	<0.0002				<0.0002	<0.0002			<0.0002
5/6/2020									
8/26/2020									
8/27/2020							<0.0002		
9/22/2020									
2/8/2021									
2/9/2021		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			
2/10/2021	<0.0002							<0.0002	<0.0002
2/11/2021									
2/12/2021									
3/2/2021									
3/3/2021		<0.0002	<0.0002	<0.0002	<0.0002				
3/4/2021						<0.0002			<0.0002
8/19/2021							<0.0002		
8/20/2021									
8/26/2021		<0.0002							<0.0002
8/27/2021			<0.0002	<0.0002	<0.0002				
9/1/2021						<0.0002			
9/3/2021									
2/8/2022							<0.0002		<0.0002
2/9/2022		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	
2/10/2022	<0.0002								
2/11/2022									
8/30/2022		<0.0002	<0.0002	<0.0002		<0.0002		<0.0002	
8/31/2022	<0.0002				<0.0002		<0.0002		<0.0002
2/7/2023		0.00017 (J)	0.00013 (J)	0.00018 (J)	0.00015 (J)	0.00017 (J)		<0.0002	<0.0002
2/8/2023	<0.0002						<0.0002		
2/9/2023									
8/15/2023	0.00016 (J)	0.00015 (J)	0.00014 (J)	<0.0002	<0.0002	<0.0002	0.00014 (J)	0.00015 (J)	<0.0002
8/16/2023									
2/20/2024			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/23/2024	<0.0002	<0.0002							
8/20/2024	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
8/21/2024		<0.0002							<0.0002
2/25/2025	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Mercury (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-40 (bg)
5/1/2007	
9/12/2007	
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	
6/2/2016	
6/6/2016	
6/7/2016	
7/21/2016	
7/25/2016	
7/26/2016	
7/27/2016	
7/28/2016	
8/30/2016	
8/31/2016	
9/13/2016	
9/14/2016	
9/15/2016	
9/16/2016	
9/19/2016	
11/1/2016	
11/2/2016	
11/3/2016	
11/4/2016	
11/14/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	
1/12/2017	
1/13/2017	
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
3/1/2017	
3/2/2017	

Tolerance Limit

Constituent: Mercury (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-40 (bg)
3/3/2017	
3/6/2017	
3/7/2017	
3/8/2017	
4/26/2017	
4/27/2017	
4/28/2017	
5/1/2017	
5/2/2017	
5/8/2017	
5/26/2017	
6/27/2017	
6/28/2017	
6/29/2017	
6/30/2017	
7/11/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/12/2017	<0.0002
10/16/2017	
11/20/2017	8E-05 (J)
1/10/2018	<0.0002
1/11/2018	
2/19/2018	<0.0002
2/20/2018	
3/27/2018	
3/28/2018	
3/29/2018	
4/2/2018	
4/3/2018	<0.0002
6/28/2018	3.6E-05 (J)
8/6/2018	
8/7/2018	<0.0002
9/19/2018	
9/24/2018	<0.0002
9/25/2018	
9/26/2018	
2/25/2019	
2/26/2019	
2/27/2019	
3/4/2019	
3/5/2019	
3/6/2019	
3/28/2019	
3/29/2019	
4/1/2019	
6/12/2019	
8/19/2019	
8/20/2019	
8/21/2019	<0.0002
9/24/2019	

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Mercury (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-40 (bg)
9/25/2019	
10/8/2019	
2/10/2020	
2/11/2020	
2/12/2020	<0.0002
5/6/2020	
8/26/2020	
8/27/2020	
9/22/2020	
2/8/2021	
2/9/2021	
2/10/2021	<0.0002
2/11/2021	
2/12/2021	
3/2/2021	
3/3/2021	
3/4/2021	<0.0002
8/19/2021	
8/20/2021	
8/26/2021	
8/27/2021	
9/1/2021	
9/3/2021	0.00012 (J)
2/8/2022	0.00013 (J)
2/9/2022	
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	0.00064
2/7/2023	
2/8/2023	<0.0002
2/9/2023	
8/15/2023	0.00037
8/16/2023	
2/20/2024	0.00032
2/23/2024	
8/20/2024	
8/21/2024	0.00033
2/25/2025	0.00034

Tolerance Limit

Constituent: Molybdenum (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/1/2016	0.012 (J)	0.0055 (J)	0.014 (J)						
6/2/2016				<0.01	0.0035 (J)	<0.01	<0.01	<0.01	0.0093 (J)
6/6/2016									
6/7/2016									
7/25/2016	0.0098 (J)	0.0037 (J)						<0.01	
7/26/2016			0.0132	<0.01	0.0042 (J)	<0.01	<0.01		0.0113
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016									
9/13/2016	0.01 (J)		0.0127						
9/14/2016		0.0034 (J)		<0.01	0.0041 (J)	<0.01			
9/15/2016							<0.01		0.0112
9/16/2016									
9/19/2016								<0.01	
11/1/2016		0.0025 (J)	0.0092 (J)					<0.01	0.0099 (J)
11/2/2016				<0.01	0.0039 (J)		<0.01		
11/3/2016									
11/4/2016	0.01					<0.01			
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017							<0.01		
1/11/2017		0.0033 (J)	0.0093 (J)						0.0093 (J)
1/12/2017					0.0041 (J)	<0.01			
1/13/2017				<0.01					
1/16/2017	0.0086 (J)							<0.01	
2/21/2017								<0.01	
2/22/2017									
2/24/2017									
3/1/2017		0.0044 (J)							
3/2/2017	0.01		0.0099 (J)						0.0103
3/3/2017									
3/6/2017				<0.01					
3/7/2017					0.0047 (J)	<0.01			
3/8/2017							<0.01		
4/26/2017		0.0075 (J)					<0.01	<0.01	0.01
4/27/2017	0.0101		0.0103						
4/28/2017									
5/1/2017				<0.01	0.0045 (J)				
5/2/2017						<0.01			
5/8/2017									
5/26/2017									
6/27/2017	0.0093 (J)		0.0097 (J)		0.004 (J)	<0.01			
6/28/2017		0.008 (J)							0.0102
6/29/2017				<0.01					
6/30/2017							<0.01	<0.01	
7/11/2017									
7/17/2017									
10/10/2017									
10/11/2017									
10/12/2017									

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Molybdenum (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-3D (bg)
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
3/27/2018	0.0074 (J)						<0.01	<0.01	
3/28/2018		0.0025 (J)							0.011
3/29/2018			0.0076 (J)	<0.01	<0.01	<0.01			
4/2/2018									
4/3/2018									
6/5/2018			0.0092 (J)						
6/6/2018	0.0073 (J)								
6/7/2018									0.011
6/8/2018		0.0041 (J)					<0.01		
6/11/2018								<0.01	
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
10/1/2018	0.0076 (J)	0.0037 (J)	0.0085 (J)				<0.01		0.012
10/2/2018								<0.01	
2/26/2019							<0.01	<0.01	
2/27/2019	0.0078 (J)	0.0027 (J)	0.0087 (J)						0.011
3/4/2019				<0.01	<0.01	<0.01			
3/5/2019									
3/6/2019									
3/28/2019	0.0082 (J)		0.0092 (J)						
3/29/2019							<0.01		
4/1/2019		0.0021 (J)						<0.01	0.012
8/19/2019									
8/20/2019									
8/21/2019									
9/24/2019	0.0074 (J)		0.0072 (J)						
9/25/2019		0.0087 (J)					<0.01	<0.01	0.012
10/8/2019									
10/9/2019									
2/10/2020	0.0062 (J)		0.0087 (J)						
2/11/2020		0.003 (J)							
2/12/2020				<0.01	0.0011 (J)	<0.01	<0.01	<0.01	0.013
3/17/2020									
3/18/2020	0.0056 (J)						<0.01		
3/19/2020		0.0043 (J)	0.0088 (J)					<0.01	0.013
3/24/2020					0.0011 (J)	<0.01			
3/25/2020				<0.01					
8/26/2020									
8/27/2020									
9/22/2020				<0.01	0.00099 (J)	<0.01			
9/23/2020	0.0059 (J)	0.01	0.008 (J)						0.012
9/24/2020								<0.01	
9/25/2020							<0.01		

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Molybdenum (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-3D (bg)
2/8/2021					0.0011 (J)	<0.01			
2/9/2021				<0.01					
2/10/2021		0.0038 (J)					<0.01		0.014
2/11/2021								<0.01	
2/12/2021	0.0056 (J)		0.008 (J)						
3/1/2021								<0.01	
3/2/2021					<0.01	<0.01	<0.01		
3/3/2021	0.0049 (J)	0.0036 (J)	0.0088 (J)	<0.01					0.013
3/4/2021									
8/19/2021	0.005 (J)		0.0083 (J)				<0.01	<0.01	0.013
8/20/2021									
8/26/2021				<0.01	0.001 (J)	<0.01			
8/27/2021		0.0099 (J)							
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	0.0055 (J)	0.0087 (J)	0.0093 (J)						0.013
2/10/2022					0.00096 (J)	<0.01	<0.01		
2/11/2022				<0.01				<0.01	
8/30/2022			0.0094 (J)		0.00089 (J)	<0.01			
8/31/2022	0.0055 (J)	0.0068 (J)		<0.01			<0.01	<0.01	0.011
2/7/2023	<0.01		<0.01		0.00095 (J)				
2/8/2023		0.0065 (J)					<0.01	<0.01	0.012
2/9/2023				<0.01		<0.01			
8/15/2023	0.0047 (J)		0.0098 (J)	<0.01	0.0009 (J)	<0.01	<0.01		0.012
8/16/2023		0.012						<0.01	
2/20/2024	0.03	0.0089 (J)	0.0098 (J)	<0.01	0.001 (J)	<0.01		<0.01	0.013
2/23/2024							<0.01		
8/20/2024	0.0039 (J)	0.0058 (J)	0.01	<0.01	0.00074 (J)	<0.01	<0.01	<0.01	0.012
8/21/2024									
2/25/2025	0.0032 (J)	0.0086 (J)	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.017

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Molybdenum (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)
6/1/2016									
6/2/2016									
6/6/2016	<0.01	<0.01							
6/7/2016			<0.01	<0.01	<0.01				
7/25/2016									
7/26/2016									
7/27/2016	<0.01	<0.01	<0.01		<0.01				
7/28/2016				<0.01					
8/30/2016						<0.01			
8/31/2016							<0.01		
9/13/2016									
9/14/2016								0.0039 (J)	
9/15/2016									
9/16/2016	<0.01		<0.01						
9/19/2016		<0.01		<0.01	<0.01				
11/1/2016									
11/2/2016					<0.01				
11/3/2016	<0.01	<0.01	<0.01	<0.01					
11/4/2016								0.0077 (J)	
11/14/2016						<0.01			
11/28/2016							<0.01		
12/15/2016								0.0066 (J)	
1/10/2017									
1/11/2017	<0.01	<0.01	<0.01						
1/12/2017									
1/13/2017				<0.01	<0.01				
1/16/2017								0.0056 (J)	
2/21/2017									
2/22/2017							<0.01		
2/24/2017						<0.01			
3/1/2017	<0.01	<0.01							
3/2/2017			<0.01						
3/3/2017								0.0049 (J)	
3/6/2017				0.0007 (J)	<0.01				
3/7/2017									
3/8/2017									
4/26/2017	<0.01	<0.01		0.0008 (J)	<0.01				
4/27/2017									
4/28/2017								0.004 (J)	
5/1/2017									
5/2/2017			<0.01						
5/8/2017						<0.01	<0.01		
5/26/2017								0.0029 (J)	
6/27/2017									
6/28/2017	<0.01	<0.01						0.0036 (J)	
6/29/2017			<0.01	<0.01	<0.01				
6/30/2017									
7/11/2017						<0.01			
7/17/2017							<0.01		
10/10/2017						<0.01			
10/11/2017									0.0094 (J)
10/12/2017									

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Molybdenum (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)
10/16/2017							<0.01		
11/20/2017									0.0081 (J)
1/10/2018									
1/11/2018									0.0074 (J)
2/19/2018							<0.01		
2/20/2018									<0.01
3/27/2018									
3/28/2018	<0.01	<0.01	<0.01					0.0038 (J)	
3/29/2018				<0.01	<0.01				
4/2/2018						<0.01			
4/3/2018									0.006 (J)
6/5/2018									
6/6/2018									
6/7/2018								0.004 (J)	
6/8/2018									
6/11/2018									
6/28/2018									0.005 (J)
8/6/2018							<0.01		
8/7/2018									0.0045 (J)
9/19/2018						<0.01			
9/24/2018									0.0035 (J)
10/1/2018								0.0042 (J)	
10/2/2018									
2/26/2019									
2/27/2019								0.0041 (J)	
3/4/2019									
3/5/2019	<0.01		<0.01	<0.01	<0.01				
3/6/2019		<0.01							
3/28/2019									
3/29/2019								0.0041 (J)	
4/1/2019									
8/19/2019							<0.01		
8/20/2019						<0.01			
8/21/2019									0.0021 (J)
9/24/2019								0.0054 (J)	
9/25/2019									
10/8/2019						<0.01			
10/9/2019									0.0018 (J)
2/10/2020									
2/11/2020	<0.01	<0.01	<0.01					0.0057 (J)	
2/12/2020				<0.01	<0.01				0.0025 (J)
3/17/2020						<0.01			
3/18/2020									
3/19/2020								0.0046 (J)	
3/24/2020	<0.01	<0.01	<0.01	<0.01	<0.01				
3/25/2020									0.002 (J)
8/26/2020							<0.01		
8/27/2020						<0.01			
9/22/2020						<0.01			
9/23/2020	<0.01	<0.01	<0.01					0.0071 (J)	
9/24/2020				<0.01	<0.01				0.0016 (J)
9/25/2020									

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Molybdenum (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)
2/8/2021									
2/9/2021	<0.01	<0.01	<0.01	<0.01	<0.01				
2/10/2021								0.0041 (J)	0.0013 (J)
2/11/2021									
2/12/2021									
3/1/2021						<0.01			
3/2/2021									
3/3/2021	<0.01	<0.01	<0.01		<0.01			0.0074 (J)	
3/4/2021				<0.01					0.0014 (J)
8/19/2021						<0.01			
8/20/2021							<0.01		
8/26/2021	<0.01								0.0027 (J)
8/27/2021		<0.01	<0.01		<0.01			0.0048 (J)	
9/1/2021				<0.01					
9/3/2021									
2/8/2022						<0.01	<0.01		0.0035 (J)
2/9/2022	<0.01	<0.01	<0.01	<0.01	<0.01			0.0057 (J)	
2/10/2022									
2/11/2022									
8/30/2022	<0.01	<0.01	<0.01	<0.01			<0.01	0.0068 (J)	
8/31/2022					<0.01	<0.01			0.0036 (J)
2/7/2023	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01	0.0061 (J)	0.0045 (J)
2/8/2023						<0.01			
2/9/2023									
8/15/2023	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0071 (J)	0.0061 (J)
8/16/2023									
2/20/2024		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.0076 (J)	0.0058 (J)
2/23/2024	<0.01								
8/20/2024		<0.01	<0.01	<0.01	<0.01	<0.01		0.011	
8/21/2024	<0.01								0.0068 (J)
2/25/2025	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		0.0069 (J)	0.0056 (J)

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Molybdenum (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-40 (bg)
6/1/2016	
6/2/2016	
6/6/2016	
6/7/2016	
7/25/2016	
7/26/2016	
7/27/2016	
7/28/2016	
8/30/2016	
8/31/2016	
9/13/2016	
9/14/2016	
9/15/2016	
9/16/2016	
9/19/2016	
11/1/2016	
11/2/2016	
11/3/2016	
11/4/2016	
11/14/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	
1/12/2017	
1/13/2017	
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
3/1/2017	
3/2/2017	
3/3/2017	
3/6/2017	
3/7/2017	
3/8/2017	
4/26/2017	
4/27/2017	
4/28/2017	
5/1/2017	
5/2/2017	
5/8/2017	
5/26/2017	
6/27/2017	
6/28/2017	
6/29/2017	
6/30/2017	
7/11/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/12/2017	<0.01

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Molybdenum (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-40 (bg)
10/16/2017	
11/20/2017	<0.01
1/10/2018	<0.01
1/11/2018	
2/19/2018	<0.01
2/20/2018	
3/27/2018	
3/28/2018	
3/29/2018	
4/2/2018	
4/3/2018	<0.01
6/5/2018	
6/6/2018	
6/7/2018	
6/8/2018	
6/11/2018	
6/28/2018	<0.01
8/6/2018	
8/7/2018	<0.01
9/19/2018	
9/24/2018	<0.01
10/1/2018	
10/2/2018	
2/26/2019	
2/27/2019	
3/4/2019	
3/5/2019	
3/6/2019	
3/28/2019	
3/29/2019	
4/1/2019	
8/19/2019	
8/20/2019	
8/21/2019	<0.01
9/24/2019	
9/25/2019	
10/8/2019	
10/9/2019	<0.01
2/10/2020	
2/11/2020	
2/12/2020	<0.01
3/17/2020	
3/18/2020	
3/19/2020	
3/24/2020	<0.01
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	
9/24/2020	<0.01
9/25/2020	

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Molybdenum (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-40 (bg)
2/8/2021	
2/9/2021	
2/10/2021	<0.01
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	
3/4/2021	<0.01
8/19/2021	
8/20/2021	
8/26/2021	
8/27/2021	
9/1/2021	
9/3/2021	<0.01
2/8/2022	<0.01
2/9/2022	
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	<0.01
2/7/2023	
2/8/2023	<0.01
2/9/2023	
8/15/2023	<0.01
8/16/2023	
2/20/2024	<0.01
2/23/2024	
8/20/2024	
8/21/2024	<0.01
2/25/2025	<0.01

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Selenium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-3D (bg)
5/1/2007	<0.005								
9/12/2007	<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	<0.005					
6/2/2016					<0.005	<0.005	<0.005	<0.005	<0.005
6/6/2016									
6/7/2016									
7/21/2016	<0.005								
7/25/2016		<0.005	<0.005		<0.005				
7/26/2016				<0.005		0.0009 (J)	<0.005	0.0009 (J)	<0.005
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016	<0.005								
9/13/2016			<0.005	<0.005					
9/14/2016		<0.005				<0.005	<0.005	<0.005	
9/15/2016									<0.005
9/16/2016									
9/19/2016					<0.005				
11/1/2016		<0.005		<0.005	<0.005				<0.005
11/2/2016							<0.005	<0.005	
11/3/2016									
11/4/2016			<0.005			<0.005			
11/14/2016									
11/28/2016	<0.005								
12/15/2016									
1/10/2017									
1/11/2017		<0.005		<0.005					<0.005
1/12/2017						<0.005	<0.005		
1/13/2017								<0.005	
1/16/2017			<0.005		<0.005				
2/21/2017					<0.005				
2/22/2017	<0.005								
2/24/2017									
3/1/2017		<0.005							
3/2/2017			<0.005	<0.005					<0.005

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Selenium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-3D (bg)
3/3/2017									
3/6/2017								<0.005	
3/7/2017						<0.005	<0.005		
3/8/2017									
4/26/2017		<0.005			<0.005				<0.005
4/27/2017			<0.005	<0.005					
4/28/2017									
5/1/2017							<0.005	<0.005	
5/2/2017						<0.005			
5/8/2017	<0.005								
5/26/2017									
6/27/2017			<0.005	<0.005		<0.005	<0.005		
6/28/2017		<0.005							<0.005
6/29/2017								<0.005	
6/30/2017					<0.005				
7/11/2017									
7/17/2017	<0.005								
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017	<0.005								
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018	<0.005								
2/20/2018									
3/27/2018			<0.005		<0.005				
3/28/2018		<0.005							<0.005
3/29/2018				<0.005		<0.005	<0.005	<0.005	
4/2/2018									
4/3/2018									
6/5/2018									
6/6/2018							<0.005		
6/7/2018						<0.005		<0.005	
6/11/2018									
6/28/2018									
8/6/2018	<0.005								
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018						<0.005	<0.005	<0.005	
2/25/2019	<0.005								
2/26/2019					<0.005				
2/27/2019		<0.005	<0.005	<0.005					<0.005
3/4/2019						<0.005	<0.005	<0.005	
3/5/2019									
3/6/2019									
3/28/2019			<0.005	<0.005					
3/29/2019									
4/1/2019		<0.005			<0.005				<0.005
4/2/2019									

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Selenium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-3D (bg)
4/3/2019						<0.005	<0.005	<0.005	
6/12/2019	<0.005								
8/19/2019	<0.005								
8/20/2019									
8/21/2019									
9/24/2019			<0.005	<0.005		<0.005	<0.005		
9/25/2019		<0.005			<0.005			<0.005	<0.005
9/26/2019									
10/8/2019	<0.005								
10/9/2019									
2/10/2020			<0.005	<0.005					
2/11/2020		<0.005							
2/12/2020					<0.005	<0.005	<0.005	<0.005	<0.005
3/17/2020	<0.005								
3/18/2020			<0.005						
3/19/2020		<0.005		<0.005	<0.005				<0.005
3/24/2020						<0.005	<0.005		
3/25/2020								<0.005	
8/26/2020	<0.005								
8/27/2020									
9/22/2020	<0.005					<0.005	<0.005	<0.005	
9/23/2020		<0.005	<0.005	<0.005					<0.005
9/24/2020					<0.005				
9/25/2020									
2/8/2021						<0.005	<0.005		
2/9/2021								<0.005	
2/10/2021		<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	<0.005		
3/3/2021		<0.005	<0.005	<0.005				0.0019 (J)	<0.005
3/4/2021									
8/19/2021			<0.005	<0.005	<0.005				<0.005
8/20/2021	<0.005								
8/26/2021						<0.005	<0.005	<0.005	
8/27/2021		<0.005							
9/1/2021									
9/3/2021									
2/8/2022	<0.005								
2/9/2022		<0.005	<0.005	<0.005					<0.005
2/10/2022						<0.005	<0.005		
2/11/2022					<0.005			<0.005	
8/30/2022	<0.005			<0.005		<0.005	<0.005		
8/31/2022		<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
2/9/2023						<0.005		<0.005	
8/15/2023	<0.005		<0.005	<0.005		<0.005	<0.005	<0.005	<0.005
8/16/2023		<0.005			<0.005				
2/20/2024	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/23/2024									

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Selenium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-3D (bg)
8/20/2024		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
8/21/2024									
2/25/2025		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Selenium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)
5/1/2007									
9/12/2007									
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									
6/2/2016	0.0011 (J)								
6/6/2016		<0.005	<0.005						
6/7/2016				<0.005	0.00048 (J)	0.001 (J)			
7/21/2016									
7/25/2016									
7/26/2016	0.0016 (J)								
7/27/2016		<0.005	<0.005	<0.005		0.0012 (J)			
7/28/2016					<0.005				
8/30/2016							0.0017 (J)		
8/31/2016									
9/13/2016									
9/14/2016								<0.005	
9/15/2016	0.0014 (J)								
9/16/2016			<0.005			0.0015 (J)			
9/19/2016		<0.005		<0.005	0.0014 (J)				
11/1/2016									
11/2/2016	<0.005			<0.005					
11/3/2016		<0.005	<0.005		<0.005	0.0015 (J)			
11/4/2016								<0.005	
11/14/2016							<0.005		
11/28/2016									
12/15/2016								<0.005	
1/10/2017	0.0012 (J)								
1/11/2017		<0.005	<0.005			0.0014 (J)			
1/12/2017									
1/13/2017				<0.005	<0.005				
1/16/2017								<0.005	
2/21/2017									
2/22/2017									
2/24/2017							0.0011 (J)		
3/1/2017		<0.005	<0.005						
3/2/2017						0.0017 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Selenium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)
3/3/2017								<0.005	
3/6/2017				<0.005	<0.005				
3/7/2017									
3/8/2017	<0.005								
4/26/2017	<0.005	<0.005	<0.005	<0.005	<0.005				
4/27/2017									
4/28/2017								<0.005	
5/1/2017									
5/2/2017						<0.005			
5/8/2017							<0.005		
5/26/2017								<0.005	
6/27/2017									
6/28/2017		<0.005	<0.005					<0.005	
6/29/2017				<0.005	<0.005	<0.005			
6/30/2017	<0.005								
7/11/2017							<0.005		
7/17/2017									
10/10/2017							<0.005		
10/11/2017									<0.005
10/12/2017									
10/16/2017									
11/20/2017									<0.005
1/10/2018									
1/11/2018									<0.005
2/19/2018									
2/20/2018									<0.005
3/27/2018	<0.005								
3/28/2018		<0.005	<0.005			<0.005		<0.005	
3/29/2018				<0.005	<0.005				
4/2/2018							<0.005		
4/3/2018									<0.005
6/5/2018					<0.005				
6/6/2018				<0.005					
6/7/2018		<0.005							
6/11/2018			<0.005			<0.005			
6/28/2018									<0.005
8/6/2018									
8/7/2018									<0.005
9/19/2018							<0.005		
9/24/2018									0.0015 (J)
9/25/2018		<0.005	<0.005	<0.005	<0.005	<0.005			
9/26/2018									
2/25/2019									
2/26/2019	<0.005								
2/27/2019								<0.005	
3/4/2019									
3/5/2019			<0.005	<0.005	<0.005	<0.005			
3/6/2019		<0.005							
3/28/2019									
3/29/2019	0.0019 (J)							<0.005	
4/1/2019									
4/2/2019					<0.005	<0.005			

Tolerance Limit

Constituent: Selenium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)
4/3/2019		<0.005	<0.005	<0.005					
6/12/2019									
8/19/2019									
8/20/2019							<0.005		
8/21/2019									<0.005
9/24/2019					<0.005			<0.005	
9/25/2019	<0.005			<0.005		<0.005			
9/26/2019		<0.005	<0.005						
10/8/2019									
10/9/2019									<0.005
2/10/2020									
2/11/2020		<0.005	<0.005			<0.005		<0.005	
2/12/2020	<0.005			<0.005	<0.005				<0.005
3/17/2020									
3/18/2020	<0.005								
3/19/2020								<0.005	
3/24/2020		<0.005	<0.005	<0.005	<0.005	<0.005			
3/25/2020									<0.005
8/26/2020									
8/27/2020							<0.005		
9/22/2020									
9/23/2020		<0.005	<0.005			<0.005		<0.005	
9/24/2020				<0.005	<0.005				<0.005
9/25/2020	<0.005								
2/8/2021									
2/9/2021		<0.005	<0.005	<0.005	<0.005	<0.005			
2/10/2021	<0.005							<0.005	<0.005
2/11/2021									
2/12/2021									
3/1/2021									
3/2/2021	<0.005								
3/3/2021		<0.005	<0.005	<0.005		<0.005		<0.005	
3/4/2021					<0.005				<0.005
8/19/2021	<0.005						<0.005		
8/20/2021									
8/26/2021			<0.005						<0.005
8/27/2021		<0.005		<0.005		<0.005		<0.005	
9/1/2021					<0.005				
9/3/2021									
2/8/2022							<0.005		<0.005
2/9/2022		<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	
2/10/2022	0.0014 (J)								
2/11/2022									
8/30/2022		<0.005	<0.005		<0.005	<0.005		<0.005	
8/31/2022	<0.005			<0.005			<0.005		<0.005
2/7/2023		<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005
2/8/2023	<0.005						<0.005		
2/9/2023									
8/15/2023	0.0014 (J)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
8/16/2023									
2/20/2024		<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/23/2024	0.001 (J)		<0.005						

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Selenium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-14S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)
8/20/2024	0.0012 (J)	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	
8/21/2024			<0.005						<0.005
2/25/2025	0.0014 (J)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Selenium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-40 (bg)
5/1/2007	
9/12/2007	
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	
6/2/2016	
6/6/2016	
6/7/2016	
7/21/2016	
7/25/2016	
7/26/2016	
7/27/2016	
7/28/2016	
8/30/2016	
8/31/2016	
9/13/2016	
9/14/2016	
9/15/2016	
9/16/2016	
9/19/2016	
11/1/2016	
11/2/2016	
11/3/2016	
11/4/2016	
11/14/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	
1/12/2017	
1/13/2017	
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
3/1/2017	
3/2/2017	

Tolerance Limit

Constituent: Selenium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-40 (bg)
3/3/2017	
3/6/2017	
3/7/2017	
3/8/2017	
4/26/2017	
4/27/2017	
4/28/2017	
5/1/2017	
5/2/2017	
5/8/2017	
5/26/2017	
6/27/2017	
6/28/2017	
6/29/2017	
6/30/2017	
7/11/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/12/2017	<0.005
10/16/2017	
11/20/2017	0.0042 (J)
1/10/2018	0.0043 (J)
1/11/2018	
2/19/2018	<0.005
2/20/2018	
3/27/2018	
3/28/2018	
3/29/2018	
4/2/2018	
4/3/2018	<0.005
6/5/2018	
6/6/2018	
6/7/2018	
6/11/2018	
6/28/2018	0.0032 (J)
8/6/2018	
8/7/2018	0.0031 (J)
9/19/2018	
9/24/2018	0.0026 (J)
9/25/2018	
9/26/2018	
2/25/2019	
2/26/2019	
2/27/2019	
3/4/2019	
3/5/2019	
3/6/2019	
3/28/2019	
3/29/2019	
4/1/2019	
4/2/2019	

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Selenium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-40 (bg)
4/3/2019	
6/12/2019	
8/19/2019	
8/20/2019	
8/21/2019	0.0024 (J)
9/24/2019	
9/25/2019	
9/26/2019	
10/8/2019	
10/9/2019	0.0026 (J)
2/10/2020	
2/11/2020	
2/12/2020	0.002 (J)
3/17/2020	
3/18/2020	
3/19/2020	
3/24/2020	0.002 (J)
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	
9/24/2020	0.0016 (J)
9/25/2020	
2/8/2021	
2/9/2021	
2/10/2021	<0.005
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	
3/4/2021	<0.005
8/19/2021	
8/20/2021	
8/26/2021	
8/27/2021	
9/1/2021	
9/3/2021	<0.005
2/8/2022	0.0014 (J)
2/9/2022	
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	
8/15/2023	<0.005
8/16/2023	
2/20/2024	<0.005
2/23/2024	

Tolerance Limit

Constituent: Selenium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-40 (bg)
8/20/2024	
8/21/2024	<0.005
2/25/2025	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Thallium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-4I (bg)	YGWA-5I (bg)	YGWA-14S (bg)
5/1/2007	<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	<0.001					
6/2/2016					<0.001	<0.001	<0.001	<0.001	<0.001
6/6/2016									
6/7/2016									
7/21/2016	<0.001								
7/25/2016		<0.001	<0.001						
7/26/2016				<0.001	<0.001	0.0001 (J)	<0.001	<0.001	<0.001
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016	<0.001								
9/13/2016		<0.001		<0.001					
9/14/2016			<0.001		<0.001		<0.001	<0.001	
9/15/2016						<0.001			<0.001
9/16/2016									
9/19/2016									
11/1/2016			<0.001	<0.001		<0.001			
11/2/2016					<0.001		<0.001		<0.001
11/3/2016									
11/4/2016		<0.001						<0.001	
11/14/2016									
11/28/2016	<0.001								
12/15/2016									
1/10/2017									<0.001
1/11/2017			<0.001	<0.001		<0.001			
1/12/2017					<0.001			<0.001	
1/13/2017							<0.001		
1/16/2017		<0.001							
2/21/2017									
2/22/2017	<0.001								
2/24/2017									
3/1/2017			<0.001						
3/2/2017		<0.001		<0.001		<0.001			
3/3/2017									
3/6/2017							<0.001		

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Thallium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-4I (bg)	YGWA-5I (bg)	YGWA-14S (bg)
3/7/2017					<0.001			<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									
5/1/2017					<0.001		<0.001		
5/2/2017								<0.001	
5/8/2017	6E-05 (J)								
5/26/2017									
6/27/2017		<0.001		<0.001	<0.001			<0.001	
6/28/2017			<0.001			<0.001			
6/29/2017							<0.001		
6/30/2017									<0.001
7/11/2017									
7/17/2017	6E-05 (J)								
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017	7E-05 (J)								
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018	<0.001								
2/20/2018									
3/27/2018		<0.001							<0.001
3/28/2018			<0.001			<0.001			
3/29/2018				<0.001	<0.001		<0.001	<0.001	
4/2/2018									
4/3/2018									
6/28/2018									
8/6/2018	<0.001								
8/7/2018									
9/19/2018									
9/24/2018									
2/25/2019	<0.001								
2/26/2019									<0.001
2/27/2019		<0.001	<0.001	<0.001		<0.001			
3/4/2019					<0.001		<0.001	<0.001	
3/5/2019									
3/6/2019									
4/2/2019									
4/3/2019					<0.001		<0.001	<0.001	
6/12/2019	<0.001								
8/19/2019	5.5E-05 (J)								
8/20/2019									
8/21/2019									
9/24/2019					<0.001			<0.001	
9/25/2019							<0.001		
9/26/2019									
10/8/2019	<0.001								
2/10/2020		5.5E-05 (J)		<0.001					
2/11/2020			<0.001						

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Thallium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	GWA-2 (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-4I (bg)	YGWA-5I (bg)	YGWA-14S (bg)
2/12/2020					<0.001	<0.001	<0.001	<0.001	8.9E-05 (J)
3/17/2020	<0.001								
3/18/2020		<0.001							<0.001
3/19/2020			<0.001	<0.001		<0.001			
3/24/2020					<0.001			<0.001	
3/25/2020							<0.001		
8/26/2020	<0.001								
8/27/2020									
9/22/2020	<0.001				<0.001		<0.001	<0.001	
9/23/2020		<0.001	0.00016 (J)	<0.001		<0.001			
9/24/2020									
9/25/2020									<0.001
2/8/2021					<0.001			<0.001	
2/9/2021							<0.001		
2/10/2021			<0.001			<0.001			<0.001
2/11/2021									
2/12/2021		<0.001		<0.001					
3/2/2021	<0.001								
8/19/2021									
8/20/2021	<0.001								
2/8/2022	<0.001								
2/9/2022		<0.001	<0.001	<0.001		<0.001			
2/10/2022					<0.001			<0.001	<0.001
2/11/2022							<0.001		
8/30/2022	<0.001			<0.001	<0.001			<0.001	
8/31/2022		<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
2/9/2023							<0.001	<0.001	
8/15/2023	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/16/2023			<0.001						
2/20/2024	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
2/23/2024									<0.001
8/20/2024		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/21/2024									
2/25/2025		<0.001	0.00053 (J)	<0.001	<0.001	0.00043 (J)	<0.001	<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Thallium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-30I (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)
5/1/2007									
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									
6/2/2016	<0.001								
6/6/2016		<0.001	<0.001						
6/7/2016				<0.001	<0.001	<0.001			
7/21/2016									
7/25/2016	<0.001								
7/26/2016									
7/27/2016		<0.001	<0.001	<0.001	<0.001				
7/28/2016						<0.001			
8/30/2016							<0.001		
8/31/2016									
9/13/2016									
9/14/2016								<0.001	
9/15/2016									
9/16/2016			<0.001		<0.001				
9/19/2016	<0.001	<0.001		<0.001		<0.001			
11/1/2016	<0.001								
11/2/2016				<0.001					
11/3/2016		<0.001	<0.001		<0.001	<0.001			
11/4/2016								<0.001	
11/14/2016							<0.001		
11/28/2016									
12/15/2016								<0.001	
1/10/2017									
1/11/2017		<0.001	<0.001		<0.001				
1/12/2017									
1/13/2017				<0.001		<0.001			
1/16/2017	<0.001							<0.001	
2/21/2017	<0.001								
2/22/2017									
2/24/2017							<0.001		
3/1/2017		<0.001	<0.001						
3/2/2017					<0.001				
3/3/2017								<0.001	
3/6/2017				<0.001		<0.001			

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Thallium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-30I (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)
3/7/2017									
3/8/2017									
4/26/2017	<0.001	<0.001	<0.001	<0.001		<0.001			
4/27/2017									
4/28/2017								<0.001	
5/1/2017									
5/2/2017					<0.001				
5/8/2017							<0.001		
5/26/2017								<0.001	
6/27/2017									
6/28/2017		<0.001	<0.001					<0.001	
6/29/2017				<0.001	<0.001	<0.001			
6/30/2017	<0.001								
7/11/2017							<0.001		
7/17/2017									
10/10/2017							<0.001		
10/11/2017									<0.001
10/12/2017									
10/16/2017									
11/20/2017									<0.001
1/10/2018									
1/11/2018									<0.001
2/19/2018									
2/20/2018									<0.001
3/27/2018	<0.001								
3/28/2018		<0.001	<0.001		<0.001			<0.001	
3/29/2018				<0.001		<0.001			
4/2/2018							<0.001		
4/3/2018									<0.001
6/28/2018									<0.001
8/6/2018									
8/7/2018									<0.001
9/19/2018							<0.001		
9/24/2018									<0.001
2/25/2019									
2/26/2019	<0.001								
2/27/2019								<0.001	
3/4/2019									
3/5/2019			<0.001	<0.001	<0.001	<0.001			
3/6/2019		<0.001							
4/2/2019					<0.001	<0.001			
4/3/2019		<0.001	<0.001	<0.001					
6/12/2019									
8/19/2019									
8/20/2019							5.8E-05 (J)		
8/21/2019									<0.001
9/24/2019						<0.001			
9/25/2019				<0.001	<0.001				
9/26/2019		<0.001	<0.001						
10/8/2019							8.4E-05 (J)		
2/10/2020									
2/11/2020		<0.001	<0.001		<0.001			<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Thallium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-30I (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)
2/12/2020	<0.001			<0.001		<0.001			<0.001
3/17/2020							<0.001		
3/18/2020									
3/19/2020	<0.001							<0.001	
3/24/2020		<0.001	<0.001	<0.001	<0.001	<0.001			
3/25/2020									<0.001
8/26/2020									
8/27/2020							<0.001		
9/22/2020									
9/23/2020		<0.001	<0.001		<0.001			<0.001	
9/24/2020	<0.001			<0.001		<0.001			<0.001
9/25/2020									
2/8/2021									
2/9/2021		<0.001	<0.001	<0.001	<0.001	<0.001			
2/10/2021								<0.001	<0.001
2/11/2021	<0.001								
2/12/2021									
3/2/2021									
8/19/2021							<0.001		
8/20/2021									
2/8/2022							<0.001		<0.001
2/9/2022		<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	
2/10/2022									
2/11/2022	<0.001								
8/30/2022		<0.001	<0.001		<0.001	<0.001		<0.001	
8/31/2022	<0.001			<0.001			<0.001		<0.001
2/7/2023		<0.001	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001
2/8/2023	<0.001						<0.001		
2/9/2023									
8/15/2023		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/16/2023	<0.001								
2/20/2024	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/23/2024			<0.001						
8/20/2024	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	
8/21/2024			<0.001						<0.001
2/25/2025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Thallium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-40 (bg)
5/1/2007	
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	
6/2/2016	
6/6/2016	
6/7/2016	
7/21/2016	
7/25/2016	
7/26/2016	
7/27/2016	
7/28/2016	
8/30/2016	
8/31/2016	
9/13/2016	
9/14/2016	
9/15/2016	
9/16/2016	
9/19/2016	
11/1/2016	
11/2/2016	
11/3/2016	
11/4/2016	
11/14/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	
1/12/2017	
1/13/2017	
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
3/1/2017	
3/2/2017	
3/3/2017	
3/6/2017	

Tolerance Limit

Constituent: Thallium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-40 (bg)
3/7/2017	
3/8/2017	
4/26/2017	
4/27/2017	
4/28/2017	
5/1/2017	
5/2/2017	
5/8/2017	
5/26/2017	
6/27/2017	
6/28/2017	
6/29/2017	
6/30/2017	
7/11/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/12/2017	<0.001
10/16/2017	
11/20/2017	<0.001
1/10/2018	<0.001
1/11/2018	
2/19/2018	<0.001
2/20/2018	
3/27/2018	
3/28/2018	
3/29/2018	
4/2/2018	
4/3/2018	<0.001
6/28/2018	<0.001
8/6/2018	
8/7/2018	<0.001
9/19/2018	
9/24/2018	<0.001
2/25/2019	
2/26/2019	
2/27/2019	
3/4/2019	
3/5/2019	
3/6/2019	
4/2/2019	
4/3/2019	
6/12/2019	
8/19/2019	
8/20/2019	
8/21/2019	<0.001
9/24/2019	
9/25/2019	
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	

ND substitution: RL or RL/2 if <15% NDs.

Tolerance Limit

Constituent: Thallium (mg/L) Analysis Run 5/20/2025 9:48 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWA-40 (bg)
2/12/2020	<0.001
3/17/2020	
3/18/2020	
3/19/2020	
3/24/2020	<0.001
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	
9/24/2020	<0.001
9/25/2020	
2/8/2021	
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	<0.001
2/9/2022	
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	
8/15/2023	<0.001
8/16/2023	
2/20/2024	<0.001
2/23/2024	
8/20/2024	
8/21/2024	<0.001
2/25/2025	<0.001

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		1.1	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	0.03	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.

Lithium YGWC-42 & Selenium YGWC-38 Trend Tests - All/Significant Results

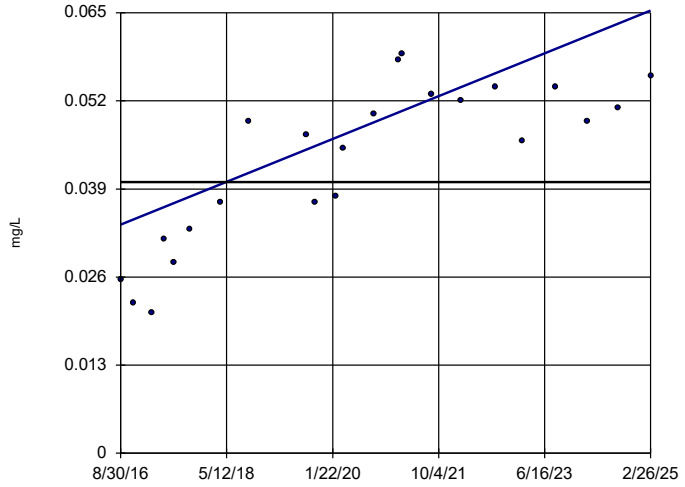
Plant Yates Client: Southern Company Data: Yates AMA-R6 Printed 5/16/2025, 11:12 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Lithium (mg/L)	**YGWC-42**	**0.003719**	**164**	**76**	**Yes**	**23**	**0**	**n/a**	**0.05**	**NP**
Selenium (mg/L)	**YGWC-38**	**-0.03408**	**-237**	**-76**	**Yes**	**23**	**0**	**n/a**	**0.05**	**NP**

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Sen's Slope Estimator

YGWC-42



n = 23

Slope = 0.003719 units per year.

Mann-Kendall statistic = 164 critical = 76

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

GWPS = 0.04.

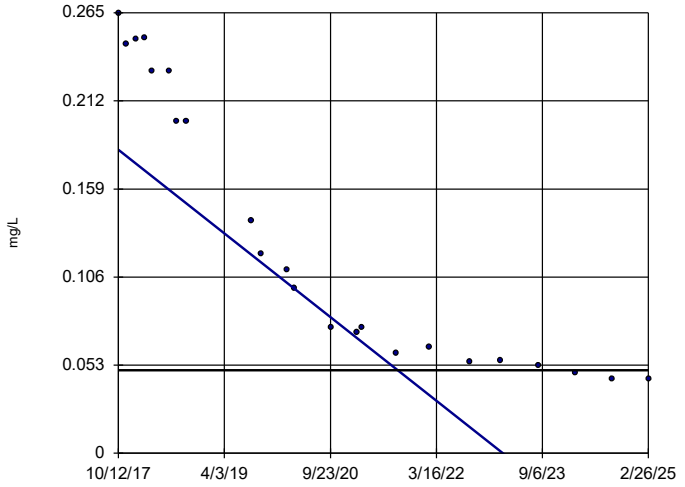
Constituent: Lithium Analysis Run 5/16/2025 11:11 AM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-38



n = 23

Slope = -0.03408 units per year.

Mann-Kendall statistic = -237 critical = -76

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

GWPS = 0.05.

Constituent: Selenium Analysis Run 5/16/2025 11:11 AM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates AMA-R6

Lithium YGWC-42 & Selenium YGWC-38 Trend Tests
Truncated Records - Significant Results

Plant Yates Client: Southern Company Data: Yates AMA-R6 Printed 5/16/2025, 11:09 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Selenium (mg/L)	**YGWC-38**	**-0.00611**	**-31**	**-20**	**Yes**	**9**	**0**	**n/a**	**0.05**	**NP**

Lithium YGWC-42 & Selenium YGWC-38 Trend Tests - Truncated Records - All Results

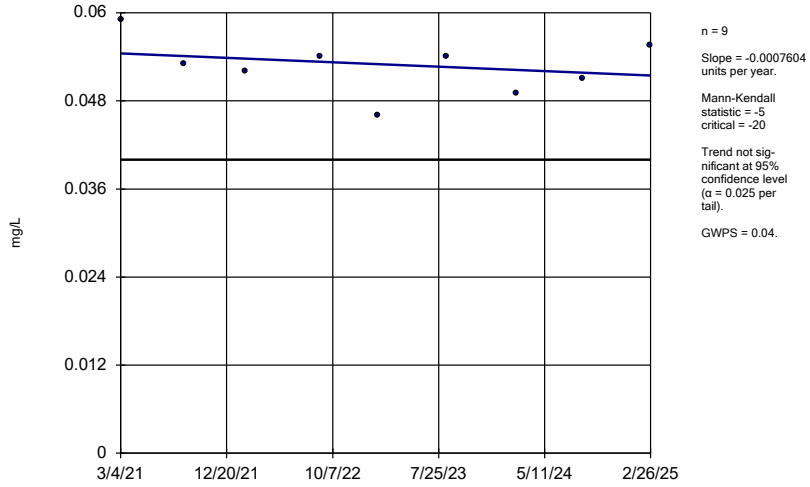
Plant Yates Client: Southern Company Data: Yates AMA-R6 Printed 5/16/2025, 11:09 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Lithium (mg/L)	YGWC-42	-0.0007604	-5	-20	No	9	0	n/a	0.05	NP
Selenium (mg/L)	**YGWC-38**	**-0.00611**	**-31**	**-20**	**Yes**	**9**	**0**	**n/a**	**0.05**	**NP**

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Sen's Slope Estimator

YGWC-42



n = 9

Slope = -0.0007604 units per year.

Mann-Kendall statistic = -5 critical = -20

Trend not significant at 95% confidence level (α = 0.025 per tail).

GWPS = 0.04.

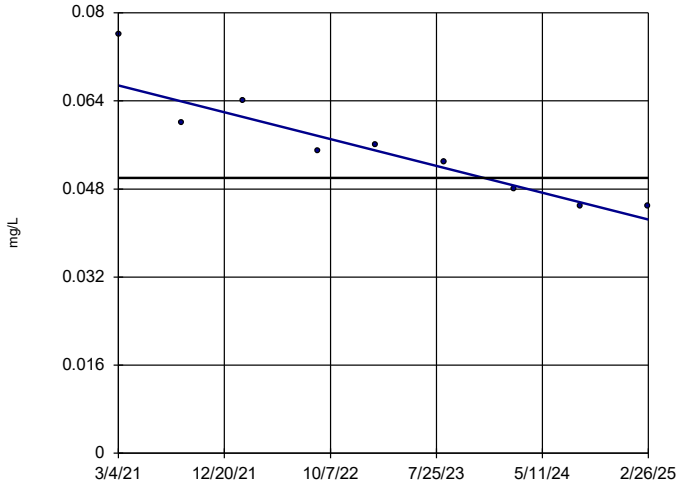
Constituent: Lithium Analysis Run 5/16/2025 11:09 AM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-38



n = 9

Slope = -0.00611 units per year.

Mann-Kendall statistic = -31 critical = -20

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

GWPS = 0.05.

Constituent: Selenium Analysis Run 5/16/2025 11:09 AM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates AMA-R6

FIGURE I.

Appendix IV Confidence Intervals - Significant Results

Plant Yates Client: Southern Company Data: Yates AMA-R6 Printed 7/7/2025, 3:02 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cadmium (mg/L)	**YGWC-50**	**0.01555**	**0.008925**	**0.005**	**Yes**	**8**	**0.01224**	**0.003125**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**YGWC-42**	**0.05626**	**0.04899**	**0.04**	**Yes**	**9**	**0.05262**	**0.003766**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**YAMW-3**	**0.05371**	**0.04062**	**0.04**	**Yes**	**8**	**0.04716**	**0.006175**	**0**	**None**	**No**	**0.01**	**Param.**
Selenium (mg/L)	**PZ-37**	**0.2513**	**0.177**	**0.05**	**Yes**	**21**	**0.2141**	**0.06742**	**0**	**None**	**No**	**0.01**	**Param.**

Appendix IV Confidence Intervals - All Results

Plant Yates Client: Southern Company Data: Yates AMA-R6 Printed 7/7/2025, 3:02 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	YGWC-38	0.003	0.0015	0.006	No	22	0.002471	0.001021	77.27	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-41	0.003	0.0014	0.006	No	22	0.002927	0.0003411	95.45	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-23S	0.003	0.00085	0.006	No	25	0.00261	0.0009166	84	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-24SB	0.003	0.0009	0.006	No	24	0.002913	0.0004287	95.83	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-36A	0.003	0.0015	0.006	No	26	0.00355	0.005129	50	None	No	0.01	NP (normality)
Antimony (mg/L)	YGWC-42	0.003	0.00053	0.006	No	22	0.002888	0.0005266	95.45	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-43	0.003	0.0026	0.006	No	22	0.00286	0.0005758	90.91	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-49	0.003	0.0011	0.006	No	22	0.002801	0.0006489	90.91	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-50	0.0034	0.00062	0.006	No	8	0.001935	0.001255	37.5	None	No	0.004	NP (normality)
Antimony (mg/L)	YAMW-1	0.025	0.0016	0.006	No	13	0.004282	0.006274	61.54	None	No	0.01	NP (NDs)
Antimony (mg/L)	YAMW-4	0.003	0.00065	0.006	No	11	0.002243	0.001067	63.64	None	No	0.006	NP (NDs)
Antimony (mg/L)	YAMW-5	0.003	0.003	0.006	No	11	0.002757	0.000805	90.91	None	No	0.006	NP (NDs)
Antimony (mg/L)	PZ-35	0.003	0.00039	0.006	No	13	0.002799	0.0007239	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-37D	0.003	0.00052	0.006	No	9	0.002369	0.0009814	66.67	None	No	0.002	NP (NDs)
Antimony (mg/L)	PZ-37	0.0085	0.0014	0.006	No	21	0.002865	0.001546	76.19	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-52D	0.016	0.00081	0.006	No	8	0.004351	0.004769	75	None	No	0.004	NP (NDs)
Arsenic (mg/L)	YGWC-38	0.005	0.00096	0.01	No	23	0.002546	0.001887	34.78	None	No	0.01	NP (normality)
Arsenic (mg/L)	YGWC-41	0.005	0.001	0.01	No	23	0.003327	0.002007	56.52	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-23S	0.005	0.0025	0.01	No	27	0.004481	0.001304	85.19	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-24SB	0.005	0.0035	0.01	No	26	0.004535	0.001198	84.62	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-36A	0.005	0.0047	0.01	No	27	0.004127	0.001673	74.07	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-42	0.002289	0.001498	0.01	No	23	0.002664	0.001411	21.74	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	YGWC-43	0.005	0.0033	0.01	No	23	0.004072	0.001679	73.91	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-49	0.005	0.0028	0.01	No	22	0.00433	0.001503	81.82	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-50	0.005	0.0014	0.01	No	8	0.0036	0.00165	37.5	None	No	0.004	NP (normality)
Arsenic (mg/L)	YAMW-1	0.005	0.0034	0.01	No	14	0.004402	0.001283	78.57	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YAMW-3	0.005	0.0015	0.01	No	7	0.003929	0.0015	57.14	None	No	0.008	NP (NDs)
Arsenic (mg/L)	YAMW-4	0.005	0.001	0.01	No	11	0.003317	0.001811	45.45	None	No	0.006	NP (normality)
Arsenic (mg/L)	YAMW-5	0.005	0.0011	0.01	No	11	0.003386	0.001723	45.45	None	No	0.006	NP (normality)
Arsenic (mg/L)	PZ-35	0.005	0.0014	0.01	No	14	0.003761	0.001785	64.29	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-37D	0.005	0.0014	0.01	No	9	0.004467	0.001217	77.78	None	No	0.002	NP (NDs)
Arsenic (mg/L)	PZ-37	0.005	0.0012	0.01	No	21	0.003026	0.001791	38.1	None	No	0.01	NP (normality)
Arsenic (mg/L)	PZ-51	0.005	0.0013	0.01	No	7	0.004	0.001712	71.43	None	No	0.008	NP (NDs)
Arsenic (mg/L)	PZ-52D	0.0055	0.0013	0.01	No	8	0.003537	0.001798	37.5	None	No	0.004	NP (normality)
Barium (mg/L)	YGWC-38	0.02127	0.01699	2	No	23	0.01913	0.004087	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-41	0.02657	0.02033	2	No	23	0.02345	0.005963	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-23S	0.04976	0.03513	2	No	27	0.04245	0.01534	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-24SB	0.025	0.019	2	No	26	0.02217	0.004565	0	None	No	0.01	NP (normality)
Barium (mg/L)	YGWC-36A	0.05832	0.0352	2	No	27	0.05294	0.0368	0	None	ln(x)	0.01	Param.
Barium (mg/L)	YGWC-42	0.03844	0.0274	2	No	23	0.0335	0.01111	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	YGWC-43	0.0332	0.02183	2	No	23	0.02752	0.01087	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-49	0.0744	0.06406	2	No	22	0.06923	0.009637	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-50	0.0204	0.0156	2	No	8	0.018	0.002268	0	None	No	0.01	Param.
Barium (mg/L)	YAMW-1	0.086	0.039	2	No	14	0.06479	0.02352	0	None	No	0.01	NP (normality)
Barium (mg/L)	YAMW-2	0.009245	0.007301	2	No	11	0.008273	0.001166	0	None	No	0.01	Param.
Barium (mg/L)	YAMW-3	0.04132	0.02439	2	No	7	0.03286	0.007128	0	None	No	0.01	Param.
Barium (mg/L)	YAMW-4	0.02	0.003	2	No	11	0.006618	0.006932	0	None	No	0.006	NP (normality)
Barium (mg/L)	YAMW-5	0.042	0.034	2	No	11	0.03864	0.006577	0	None	No	0.006	NP (normality)
Barium (mg/L)	PZ-35	0.1416	0.04804	2	No	14	0.1001	0.07256	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	PZ-37D	0.0267	0.01419	2	No	9	0.02044	0.006483	0	None	No	0.01	Param.
Barium (mg/L)	PZ-37	0.04573	0.02949	2	No	21	0.03761	0.01472	0	None	No	0.01	Param.
Barium (mg/L)	PZ-51	0.0162	0.01323	2	No	7	0.01471	0.001254	0	None	No	0.01	Param.
Barium (mg/L)	PZ-52D	0.02518	0.007068	2	No	8	0.01613	0.008545	0	None	No	0.01	Param.
Beryllium (mg/L)	YGWC-38	0.004604	0.002988	0.004	No	23	0.003796	0.001545	0	None	No	0.01	Param.
Beryllium (mg/L)	YGWC-41	0.0036	0.0014	0.004	No	23	0.0024	0.001048	0	None	No	0.01	NP (normality)

Appendix IV Confidence Intervals - All Results

Plant Yates Client: Southern Company Data: Yates AMA-R6 Printed 7/7/2025, 3:02 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	YGWC-23S	0.00022	0.00009	0.004	No	27	0.0003403	0.0004963	14.81	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-24SB	0.00015	0.0001	0.004	No	26	0.0002262	0.0003762	7.692	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-36A	0.0005623	0.0002334	0.004	No	27	0.0005833	0.0007097	3.704	None	ln(x)	0.01	Param.
Beryllium (mg/L)	YGWC-42	0.0005	0.00009	0.004	No	23	0.0003515	0.0002082	65.22	None	No	0.01	NP (NDs)
Beryllium (mg/L)	YGWC-43	0.00057	0.00033	0.004	No	23	0.001053	0.001188	26.09	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-49	0.00013	0.0001	0.004	No	22	0.0001277	0.00004375	9.091	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-50	0.005058	0.003117	0.004	No	8	0.004088	0.0009156	0	None	No	0.01	Param.
Beryllium (mg/L)	YAMW-1	0.0005	0.000095	0.004	No	14	0.0002813	0.0001868	35.71	None	No	0.01	NP (normality)
Beryllium (mg/L)	YAMW-2	0.0005	0.000055	0.004	No	11	0.000261	0.0002289	45.45	None	No	0.006	NP (normality)
Beryllium (mg/L)	YAMW-3	0.0002193	0.00006072	0.004	No	7	0.00014	0.00006674	14.29	None	No	0.01	Param.
Beryllium (mg/L)	YAMW-5	0.0001469	0.0001108	0.004	No	12	0.0001288	0.000023	0	None	No	0.01	Param.
Beryllium (mg/L)	PZ-35	0.001226	0.0004426	0.004	No	15	0.0008847	0.0006565	13.33	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	PZ-37	0.0012	0.0003	0.004	No	21	0.0007924	0.0004815	9.524	None	No	0.01	NP (normality)
Beryllium (mg/L)	PZ-51	0.00364	0.002531	0.004	No	7	0.003086	0.000467	0	None	No	0.01	Param.
Beryllium (mg/L)	PZ-52D	0.0005	0.000059	0.004	No	8	0.0003931	0.000198	75	None	No	0.004	NP (NDs)
Cadmium (mg/L)	YGWC-38	0.0027	0.00094	0.005	No	23	0.001807	0.0008835	0	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-41	0.0005	0.00018	0.005	No	23	0.0003417	0.000159	47.83	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-23S	0.0005	0.00007	0.005	No	27	0.0004841	0.00008275	96.3	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-36A	0.0005	0.00014	0.005	No	11	0.0004045	0.0001643	72.73	None	No	0.006	NP (NDs)
Cadmium (mg/L)	YGWC-42	0.0005	0.00021	0.005	No	23	0.0003983	0.0001551	56.52	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-49	0.0005	0.00007	0.005	No	22	0.0004805	0.00009168	95.45	None	No	0.01	NP (NDs)
Cadmium (mg/L)	**YGWC-50**	**0.01555**	**0.008925**	**0.005**	**Yes**	**8**	**0.01224**	**0.003125**	**0**	**None**	**No**	**0.01**	**Param.**
Cadmium (mg/L)	YAMW-1	0.0005	0.00015	0.005	No	14	0.0002736	0.0001516	28.57	None	No	0.01	NP (normality)
Cadmium (mg/L)	YAMW-2	0.0005	0.0005	0.005	No	11	0.0004682	0.0001055	90.91	None	No	0.006	NP (NDs)
Cadmium (mg/L)	YAMW-3	0.0005	0.00022	0.005	No	7	0.0004	0.000125	42.86	None	No	0.008	NP (normality)
Cadmium (mg/L)	YAMW-5	0.00025	0.00018	0.005	No	11	0.0002373	0.00007669	0	None	No	0.006	NP (normality)
Cadmium (mg/L)	PZ-35	0.00074	0.0002	0.005	No	14	0.0003886	0.0001842	50	None	No	0.01	NP (normality)
Cadmium (mg/L)	PZ-37	0.0007969	0.0005116	0.005	No	21	0.0006543	0.0002586	9.524	None	No	0.01	Param.
Cadmium (mg/L)	PZ-51	0.0019	0.0017	0.005	No	7	0.001757	0.00007868	0	None	No	0.008	NP (normality)
Cadmium (mg/L)	PZ-52D	0.0005	0.00025	0.005	No	8	0.0004688	0.00008839	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	YGWC-38	0.005	0.0023	0.1	No	23	0.004498	0.00136	86.96	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-41	0.005	0.00039	0.1	No	23	0.0048	0.0009613	95.65	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-23S	0.005	0.00086	0.1	No	23	0.003257	0.002047	56.52	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-24SB	0.005	0.0022	0.1	No	22	0.004152	0.001617	77.27	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-36A	0.005	0.0035	0.1	No	23	0.004412	0.001392	82.61	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-42	0.005	0.0013	0.1	No	23	0.004449	0.001461	86.96	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-43	0.005	0.00074	0.1	No	23	0.004242	0.001689	82.61	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-49	0.002014	0.001701	0.1	No	21	0.001857	0.0002839	4.762	None	No	0.01	Param.
Chromium (mg/L)	YGWC-50	0.005	0.00041	0.1	No	8	0.004426	0.001623	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	YAMW-1	0.005	0.00074	0.1	No	12	0.003282	0.00213	58.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	YAMW-2	0.005	0.0011	0.1	No	11	0.003728	0.001851	63.64	None	No	0.006	NP (NDs)
Chromium (mg/L)	YAMW-3	0.005	0.0011	0.1	No	7	0.004443	0.001474	85.71	None	No	0.008	NP (NDs)
Chromium (mg/L)	YAMW-4	0.005	0.005	0.1	No	11	0.004597	0.001336	90.91	None	No	0.006	NP (NDs)
Chromium (mg/L)	YAMW-5	0.005	0.005	0.1	No	11	0.004691	0.001025	90.91	None	No	0.006	NP (NDs)
Chromium (mg/L)	PZ-35	0.005	0.00061	0.1	No	12	0.003017	0.002093	50	None	No	0.01	NP (normality)
Chromium (mg/L)	PZ-37	0.005	0.0019	0.1	No	21	0.004505	0.001252	85.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-52D	0.005	0.0011	0.1	No	8	0.00405	0.00176	75	None	No	0.004	NP (NDs)
Cobalt (mg/L)	YGWC-41	0.005	0.0011	0.035	No	23	0.004234	0.001712	82.61	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-36A	0.005	0.00086	0.035	No	27	0.004004	0.0019	77.78	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-42	0.002115	0.001711	0.035	No	23	0.001913	0.0003865	4.348	None	No	0.01	Param.
Cobalt (mg/L)	YGWC-43	0.005	0.00057	0.035	No	23	0.002575	0.00196	34.78	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-49	0.005	0.0008	0.035	No	22	0.004205	0.001728	81.82	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-50	0.007725	0.003775	0.035	No	8	0.00575	0.001863	12.5	None	No	0.01	Param.
Cobalt (mg/L)	YAMW-1	0.01512	0.004036	0.035	No	16	0.01222	0.01109	12.5	None	ln(x)	0.01	Param.
Cobalt (mg/L)	YAMW-2	0.003776	0.0004137	0.035	No	11	0.002783	0.002317	18.18	Kaplan-Meier	No	0.01	Param.

Appendix IV Confidence Intervals - All Results

Plant Yates Client: Southern Company Data: Yates AMA-R6 Printed 7/7/2025, 3:02 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cobalt (mg/L)	YAMW-3	0.1375	0.0251	0.035	No	7	0.07686	0.05193	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	YAMW-4	0.005	0.00044	0.035	No	11	0.002212	0.002217	36.36	None	No	0.006	NP (normality)
Cobalt (mg/L)	YAMW-5	0.005	0.005	0.035	No	11	0.004615	0.001275	90.91	None	No	0.006	NP (NDs)
Cobalt (mg/L)	PZ-35	0.0059	0.005	0.035	No	14	0.005064	0.0002405	92.86	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-37	0.007377	0.003059	0.035	No	21	0.005933	0.004723	0	None	x^(1/3)	0.01	Param.
Cobalt (mg/L)	PZ-51	0.033	0.0043	0.035	No	7	0.01113	0.01077	0	None	No	0.008	NP (normality)
Cobalt (mg/L)	PZ-52D	0.003285	0.00122	0.035	No	8	0.002253	0.0009741	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-38	1.065	0.575	6.92	No	23	0.8202	0.4688	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-41	1.186	0.65	6.92	No	23	0.9178	0.5119	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-23S	0.7977	0.4239	6.92	No	27	0.6108	0.3918	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-24SB	0.7085	0.4399	6.92	No	26	0.5742	0.2755	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-36A	0.9297	0.5265	6.92	No	27	0.7281	0.4227	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-42	2.199	1.006	6.92	No	23	1.603	1.141	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-43	4.069	2.274	6.92	No	23	3.172	1.716	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-49	1.057	0.6027	6.92	No	22	0.8301	0.4236	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-50	1.039	0.4581	6.92	No	8	0.7488	0.2742	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YAMW-1	0.642	0.3869	6.92	No	13	0.5145	0.1715	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YAMW-2	0.6885	0.1491	6.92	No	11	0.4188	0.3237	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YAMW-3	2.395	0.7469	6.92	No	7	1.571	0.6937	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YAMW-4	0.8165	0.2264	6.92	No	11	0.5215	0.3541	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YAMW-5	1.1	0.6127	6.92	No	11	0.8563	0.2923	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-35	0.8944	0.4433	6.92	No	13	0.6688	0.3033	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-37D	3.838	1.418	6.92	No	9	2.628	1.253	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-37	1.759	1.083	6.92	No	19	1.421	0.5769	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-51	0.9804	0.5983	6.92	No	7	0.7816	0.2451	0	None	x^5	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-52D	1.488	0.2507	6.92	No	8	0.8691	0.5835	0	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-38	0.2	0.1	4	No	24	0.1385	0.09679	75	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-41	0.11	0.1	4	No	24	0.1004	0.002041	91.67	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-23S	0.1	0.057	4	No	29	0.0909	0.02386	75.86	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-24SB	0.1	0.098	4	No	27	0.09007	0.02444	81.48	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-36A	0.1	0.094	4	No	28	0.09629	0.02847	71.43	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-42	0.1	0.08	4	No	24	0.0885	0.02267	75	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-43	0.1009	0.06141	4	No	24	0.101	0.0465	20.83	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	YGWC-49	0.14	0.09	4	No	24	0.09917	0.02041	70.83	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-50	0.1445	0.07847	4	No	8	0.1115	0.03116	0	None	No	0.01	Param.
Fluoride (mg/L)	YAMW-2	0.1	0.061	4	No	11	0.08855	0.01987	72.73	None	No	0.006	NP (NDs)
Fluoride (mg/L)	YAMW-3	0.08807	0.06873	4	No	7	0.08457	0.0129	28.57	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	YAMW-4	0.09562	0.0612	4	No	11	0.09718	0.0253	45.45	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	YAMW-5	0.1	0.05	4	No	11	0.08227	0.02463	63.64	None	No	0.006	NP (NDs)
Fluoride (mg/L)	PZ-35	0.1	0.055	4	No	14	0.09679	0.01203	92.86	None	No	0.01	NP (NDs)
Fluoride (mg/L)	PZ-37D	0.2728	0.1449	4	No	9	0.2089	0.06623	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-37	0.23	0.064	4	No	21	0.1388	0.09456	76.19	None	No	0.01	NP (NDs)
Fluoride (mg/L)	PZ-51	0.1557	0.09487	4	No	7	0.1253	0.0256	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-52D	0.101	0.05047	4	No	8	0.07575	0.02385	12.5	None	No	0.01	Param.
Lead (mg/L)	YGWC-38	0.001	0.0001	0.015	No	23	0.0008826	0.0003099	86.96	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-41	0.001	0.0002	0.015	No	23	0.0008503	0.0003467	78.26	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-23S	0.001	0.00044	0.015	No	25	0.000873	0.0003029	84	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-24SB	0.001	0.00036	0.015	No	24	0.0009043	0.000263	87.5	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-36A	0.001	0.00025	0.015	No	25	0.0006436	0.0004231	40	None	No	0.01	NP (normality)
Lead (mg/L)	YGWC-42	0.001	0.0002	0.015	No	23	0.0008431	0.0003506	82.61	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-43	0.001	0.00008	0.015	No	23	0.0009198	0.0002658	91.3	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-49	0.001	0.000071	0.015	No	22	0.000915	0.0002751	90.91	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-50	0.001	0.0002	0.015	No	8	0.0004613	0.0003402	25	None	No	0.004	NP (normality)
Lead (mg/L)	YAMW-1	0.001	0.00019	0.015	No	13	0.0009377	0.0002247	92.31	None	No	0.01	NP (NDs)
Lead (mg/L)	YAMW-2	0.001	0.00011	0.015	No	11	0.0008355	0.0003662	81.82	None	No	0.006	NP (NDs)

Appendix IV Confidence Intervals - All Results

Plant Yates Client: Southern Company Data: Yates AMA-R6 Printed 7/7/2025, 3:02 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	YAMW-4	0.001	0.00028	0.015	No	11	0.0008105	0.0003395	72.73	None	No	0.006	NP (NDs)
Lead (mg/L)	YAMW-5	0.001	0.000073	0.015	No	11	0.0007476	0.0004325	72.73	None	No	0.006	NP (NDs)
Lead (mg/L)	PZ-35	0.0014	0.00015	0.015	No	13	0.0008482	0.0003861	69.23	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-37D	0.001	0.000049	0.015	No	9	0.0008943	0.000317	88.89	None	No	0.002	NP (NDs)
Lead (mg/L)	PZ-37	0.001	0.0002	0.015	No	21	0.0007559	0.0003967	71.43	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-51	0.001	0.00019	0.015	No	7	0.0008843	0.0003062	85.71	None	No	0.008	NP (NDs)
Lead (mg/L)	PZ-52D	0.0031	0.001	0.015	No	8	0.001313	0.0007357	50	None	No	0.004	NP (normality)
Lithium (mg/L)	YGWC-38	0.008198	0.006785	0.04	No	23	0.007492	0.001351	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-41	0.004	0.0021	0.04	No	23	0.003946	0.004678	4.348	None	No	0.01	NP (normality)
Lithium (mg/L)	YGWC-23S	0.002654	0.002134	0.04	No	27	0.002394	0.0005458	3.704	None	No	0.01	Param.
Lithium (mg/L)	YGWC-24SB	0.03	0.000839	0.04	No	26	0.02888	0.005719	96.15	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-36A	0.00237	0.00089	0.04	No	11	0.002605	0.00414	9.091	None	No	0.006	NP (normality)
Lithium (mg/L)	**YGWC-42**	**0.05626**	**0.04899**	**0.04**	**Yes**	**9**	**0.05262**	**0.003766**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	YGWC-43	0.01742	0.01288	0.04	No	23	0.01515	0.004341	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-49	0.003694	0.003315	0.04	No	22	0.003505	0.0003525	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-50	0.003506	0.002916	0.04	No	8	0.003211	0.0002783	0	None	No	0.01	Param.
Lithium (mg/L)	YAMW-1	0.02063	0.01077	0.04	No	14	0.0157	0.006954	7.143	None	No	0.01	Param.
Lithium (mg/L)	**YAMW-3**	**0.05371**	**0.04062**	**0.04**	**Yes**	**8**	**0.04716**	**0.006175**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	YAMW-4	0.03677	0.02672	0.04	No	11	0.03149	0.006751	0	None	x^2	0.01	Param.
Lithium (mg/L)	YAMW-5	0.01566	0.01358	0.04	No	11	0.01462	0.00125	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-35	0.004654	0.001514	0.04	No	14	0.003777	0.004088	7.143	None	ln(x)	0.01	Param.
Lithium (mg/L)	PZ-37D	0.0114	0.006684	0.04	No	9	0.009044	0.002444	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-37	0.028	0.016	0.04	No	21	0.027	0.02336	4.762	None	No	0.01	NP (normality)
Lithium (mg/L)	PZ-51	0.005785	0.00462	0.04	No	8	0.005203	0.0005493	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-52D	0.03141	0.01787	0.04	No	8	0.02464	0.006387	0	None	No	0.01	Param.
Mercury (mg/L)	YGWC-38	0.0002	0.00008	0.002	No	20	0.0001858	0.00004411	90	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-41	0.0002	0.00006	0.002	No	20	0.000193	0.0000313	95	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-23S	0.0002	0.00015	0.002	No	22	0.0001904	0.00002624	86.36	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-24SB	0.0002	0.00014	0.002	No	21	0.0001971	0.00001309	95.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-42	0.0002	0.000048	0.002	No	20	0.0001924	0.00003399	95	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-43	0.0002	0.00009	0.002	No	20	0.0001871	0.00004018	90	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-49	0.0002	0.00014	0.002	No	19	0.0001895	0.00003402	89.47	None	No	0.01	NP (NDs)
Mercury (mg/L)	YAMW-1	0.0002	0.0002	0.002	No	11	0.0001945	0.00001809	90.91	None	No	0.006	NP (NDs)
Mercury (mg/L)	YAMW-3	0.0002	0.00016	0.002	No	7	0.0001943	0.00001512	85.71	None	No	0.008	NP (NDs)
Mercury (mg/L)	PZ-37	0.0002	0.00019	0.002	No	21	0.0001929	0.00003052	90.48	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-41	0.01	0.0019	0.1	No	23	0.009648	0.001689	95.65	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-23S	0.01	0.0016	0.1	No	23	0.009635	0.001752	95.65	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-36A	0.01	0.0071	0.1	No	23	0.008217	0.00323	73.91	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-42	0.01	0.00081	0.1	No	23	0.004309	0.004292	34.78	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-43	0.01	0.0013	0.1	No	23	0.005022	0.004203	39.13	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-49	0.01	0.0007	0.1	No	21	0.009557	0.002029	95.24	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YAMW-1	0.01	0.0014	0.1	No	12	0.006832	0.003995	58.33	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YAMW-2	0.01	0.01	0.1	No	11	0.009245	0.002503	90.91	None	No	0.006	NP (NDs)
Molybdenum (mg/L)	YAMW-3	0.00739	0.00341	0.1	No	7	0.0054	0.001675	0	None	No	0.01	Param.
Molybdenum (mg/L)	YAMW-4	0.007749	0.006615	0.1	No	11	0.007145	0.0008323	0	None	x^3	0.01	Param.
Molybdenum (mg/L)	PZ-35	0.01	0.0019	0.1	No	12	0.009325	0.002338	91.67	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-37D	0.006017	0.002494	0.1	No	9	0.004256	0.001825	0	None	No	0.01	Param.
Molybdenum (mg/L)	PZ-37	0.01	0.0021	0.1	No	21	0.006862	0.004107	61.9	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-52D	0.01061	0.002364	0.1	No	8	0.006488	0.00389	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-38	0.06541	0.04615	0.05	No	9	0.05578	0.009972	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-41	0.061	0.027	0.05	No	23	0.04456	0.01904	0	None	No	0.01	NP (normality)
Selenium (mg/L)	YGWC-23S	0.03761	0.02866	0.05	No	27	0.03314	0.009378	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-36A	0.005	0.0024	0.05	No	27	0.003611	0.001425	33.33	None	No	0.01	NP (normality)
Selenium (mg/L)	YGWC-42	0.05041	0.03804	0.05	No	23	0.04422	0.01182	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-49	0.007973	0.006127	0.05	No	22	0.00705	0.00172	4.545	None	No	0.01	Param.

Appendix IV Confidence Intervals - All Results

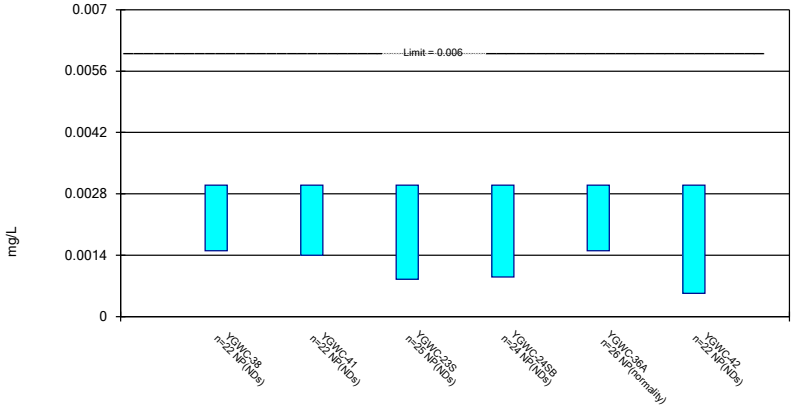
Plant Yates Client: Southern Company Data: Yates AMA-R6 Printed 7/7/2025, 3:02 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Selenium (mg/L)	YGWC-50	0.005	0.0012	0.05	No	8	0.0029	0.001762	37.5	None	No	0.004	NP (normality)
Selenium (mg/L)	YAMW-1	0.005442	0.003001	0.05	No	14	0.004814	0.001548	35.71	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	YAMW-2	0.005	0.0012	0.05	No	12	0.004683	0.001097	91.67	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	YAMW-3	0.028	0.005	0.05	No	8	0.01331	0.01092	50	None	No	0.004	NP (normality)
Selenium (mg/L)	YAMW-4	0.01755	0.006196	0.05	No	12	0.0139	0.006618	16.67	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	YAMW-5	0.05825	0.04605	0.05	No	12	0.05175	0.009265	0	None	x^2	0.01	Param.
Selenium (mg/L)	PZ-35	0.005	0.0033	0.05	No	14	0.004093	0.001017	42.86	None	No	0.01	NP (normality)
Selenium (mg/L)	**PZ-37**	**0.2513**	**0.177**	**0.05**	**Yes**	**21**	**0.2141**	**0.06742**	**0**	**None**	**No**	**0.01**	**Param.**
Selenium (mg/L)	PZ-51	0.02838	0.02133	0.05	No	7	0.02486	0.002968	0	None	No	0.01	Param.
Selenium (mg/L)	PZ-52D	0.01097	0.003373	0.05	No	8	0.00705	0.003475	0	None	sqrt(x)	0.01	Param.
Thallium (mg/L)	YGWC-36A	0.001	0.000057	0.002	No	23	0.000959	0.0001966	95.65	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-49	0.001	0.00009	0.002	No	20	0.0009545	0.0002035	95	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-50	0.001	0.00015	0.002	No	8	0.0008938	0.0003005	87.5	None	No	0.004	NP (NDs)

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Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

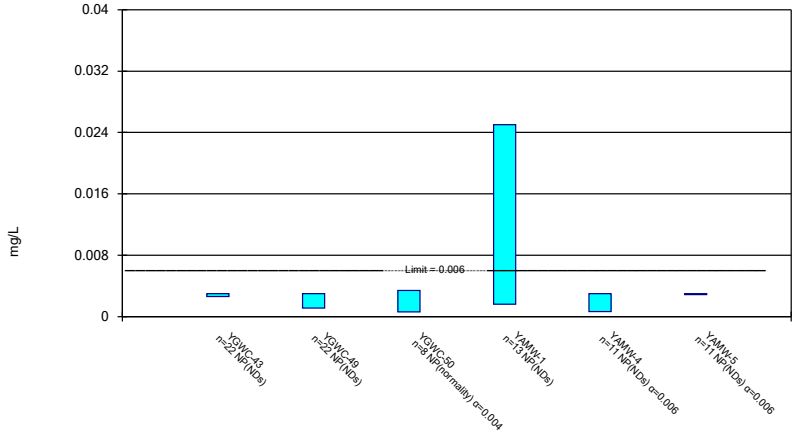


Constituent: Antimony Analysis Run 7/7/2025 2:59 PM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.

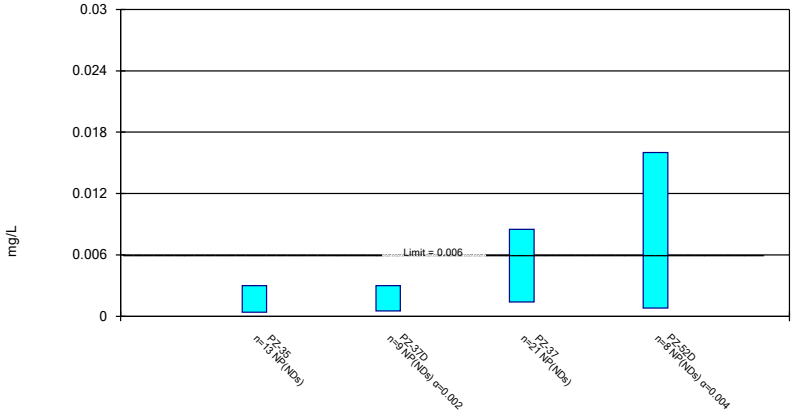


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Plant Yates Client: Southern Company Data: Yates AMA-R6

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Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.

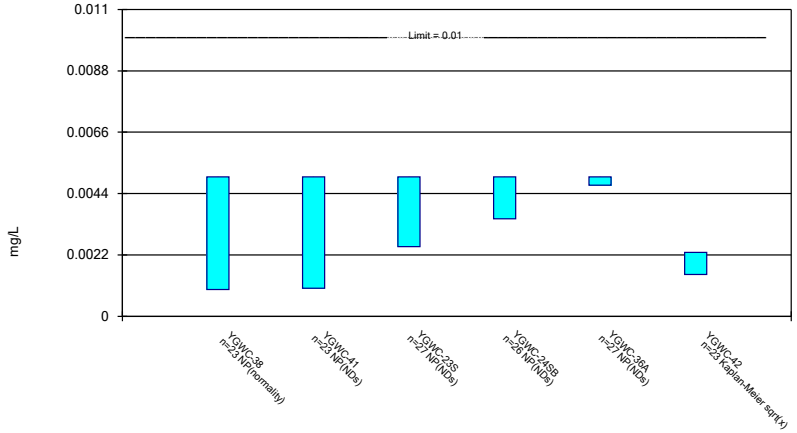


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Plant Yates Client: Southern Company Data: Yates AMA-R6

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Parametric and Non-Parametric (NP) Confidence Interval

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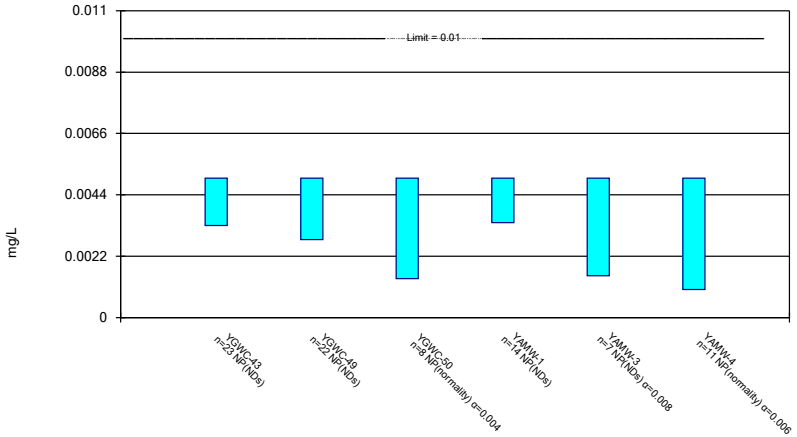


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Plant Yates Client: Southern Company Data: Yates AMA-R6

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Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.

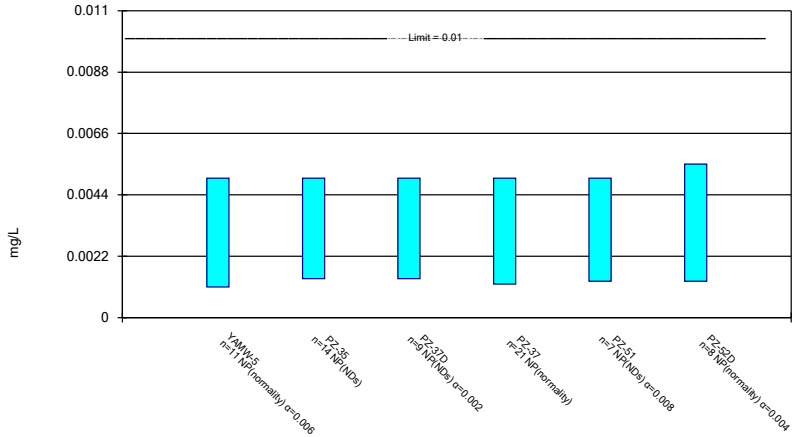


Constituent: Arsenic Analysis Run 7/7/2025 2:59 PM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.

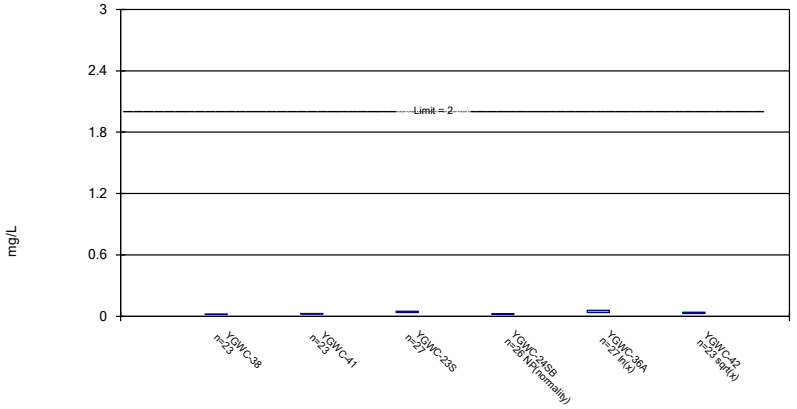


Constituent: Arsenic Analysis Run 7/7/2025 2:59 PM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AMA-R6

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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.

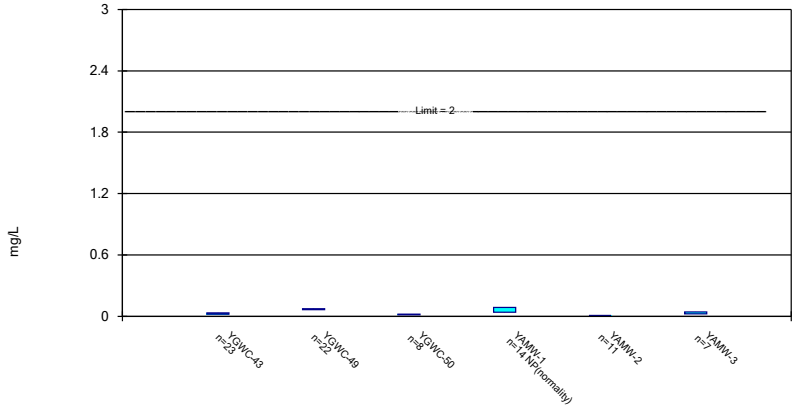


Constituent: Barium Analysis Run 7/7/2025 2:59 PM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AMA-R6

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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.

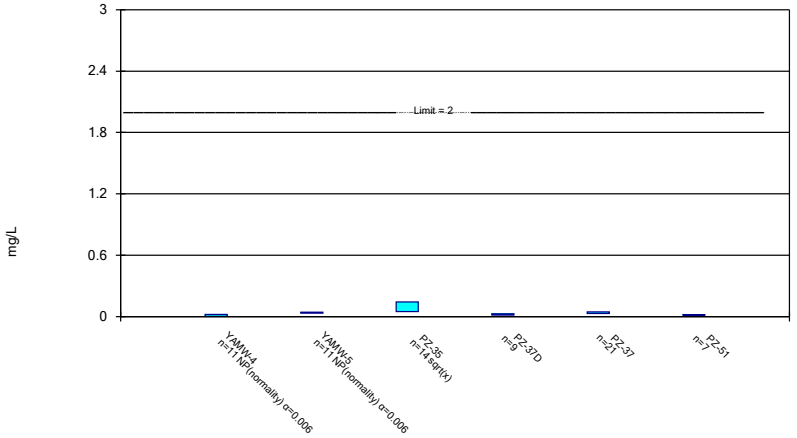


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Plant Yates Client: Southern Company Data: Yates AMA-R6

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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.

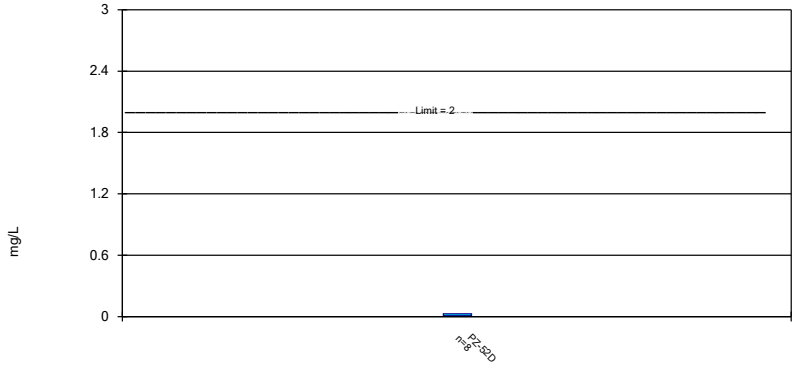


Constituent: Barium Analysis Run 7/7/2025 2:59 PM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

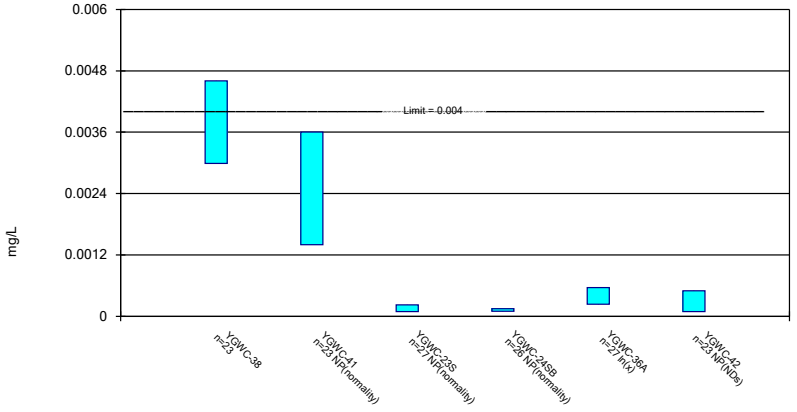


Constituent: Barium Analysis Run 7/7/2025 2:59 PM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AMA-R6

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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.

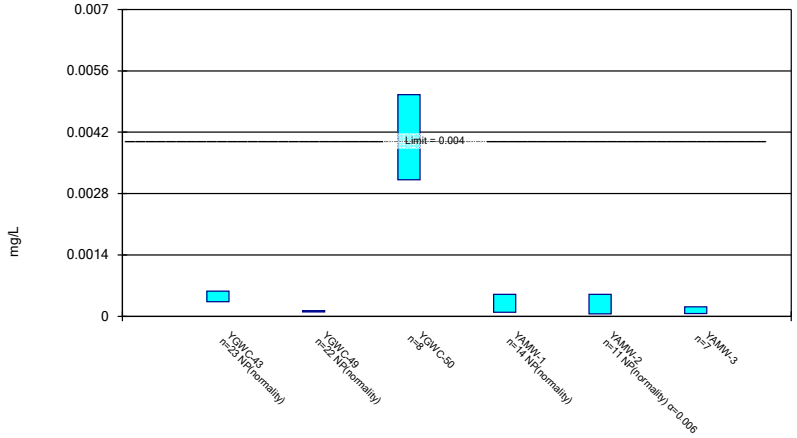


Constituent: Beryllium Analysis Run 7/7/2025 2:59 PM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

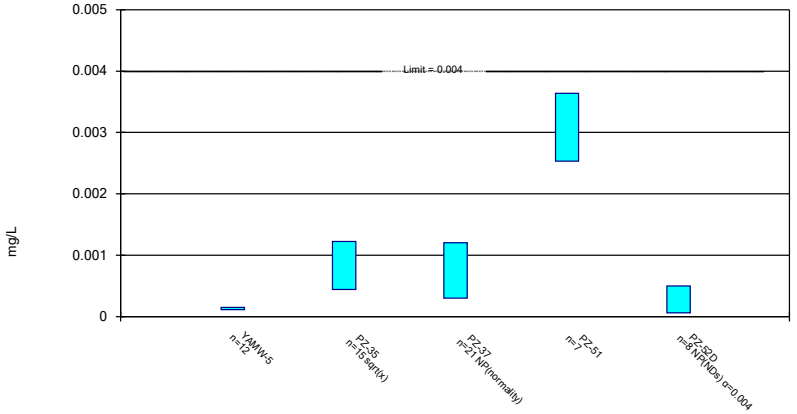


Constituent: Beryllium Analysis Run 7/7/2025 2:59 PM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

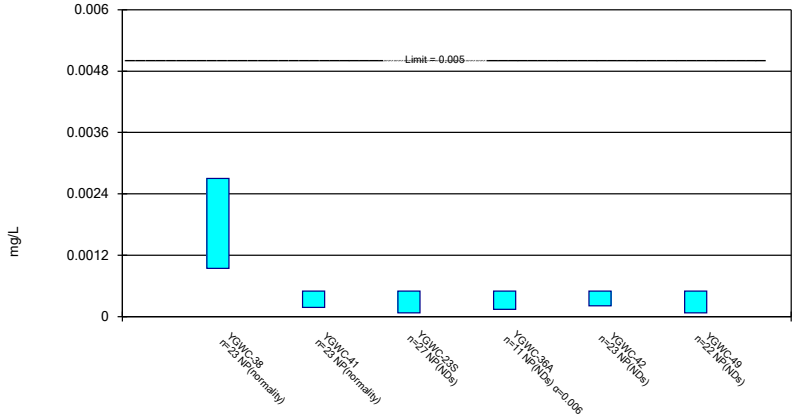


Constituent: Beryllium Analysis Run 7/7/2025 2:59 PM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.

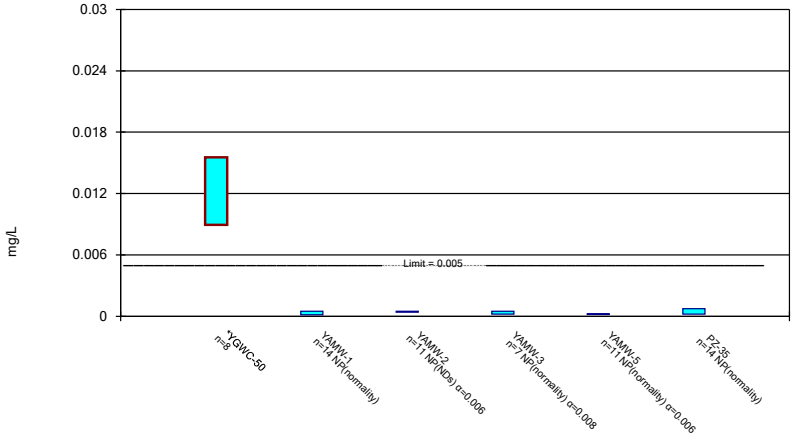


Constituent: Cadmium Analysis Run 7/7/2025 2:59 PM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG

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.

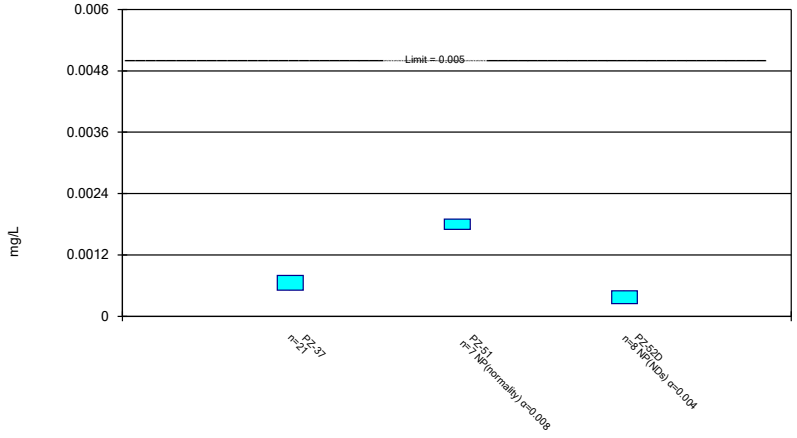


Constituent: Cadmium Analysis Run 7/7/2025 2:59 PM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AMA-R6

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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.

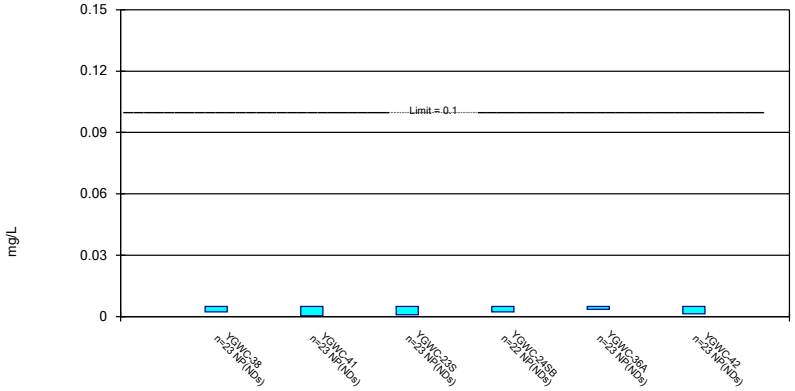


Constituent: Cadmium Analysis Run 7/7/2025 2:59 PM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

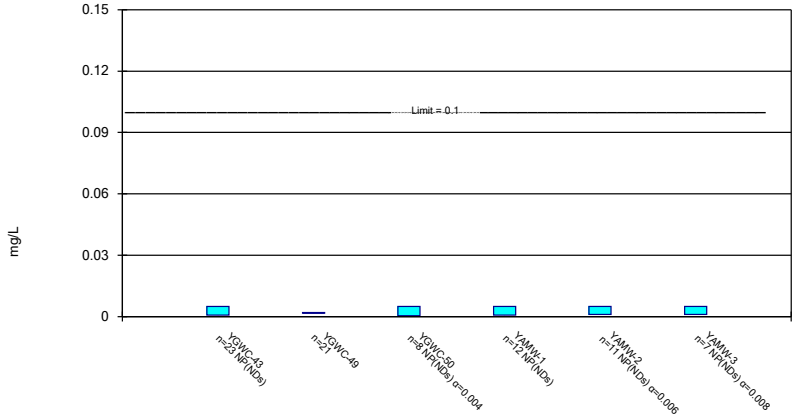


Constituent: Chromium Analysis Run 7/7/2025 2:59 PM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG

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.

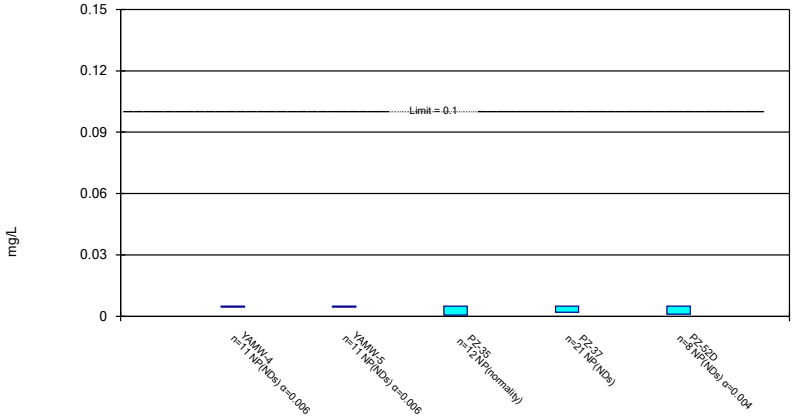


Constituent: Chromium Analysis Run 7/7/2025 2:59 PM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.

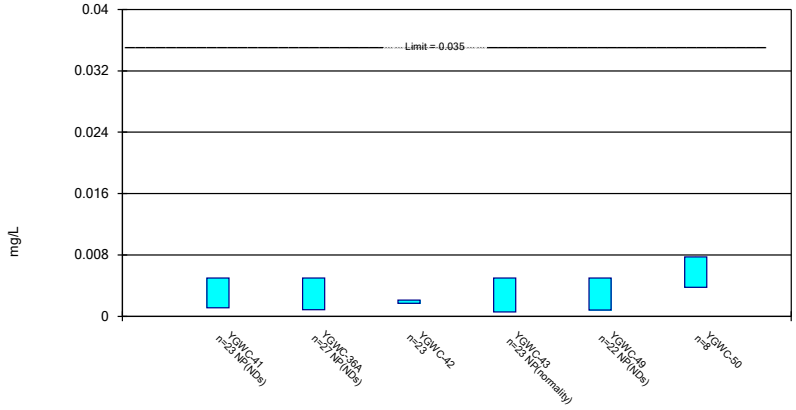


Constituent: Chromium Analysis Run 7/7/2025 2:59 PM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG

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.

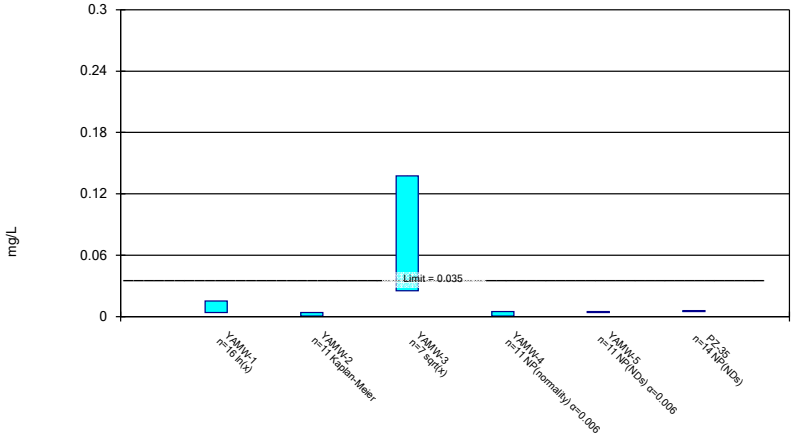


Constituent: Cobalt Analysis Run 7/7/2025 2:59 PM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AMA-R6

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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.

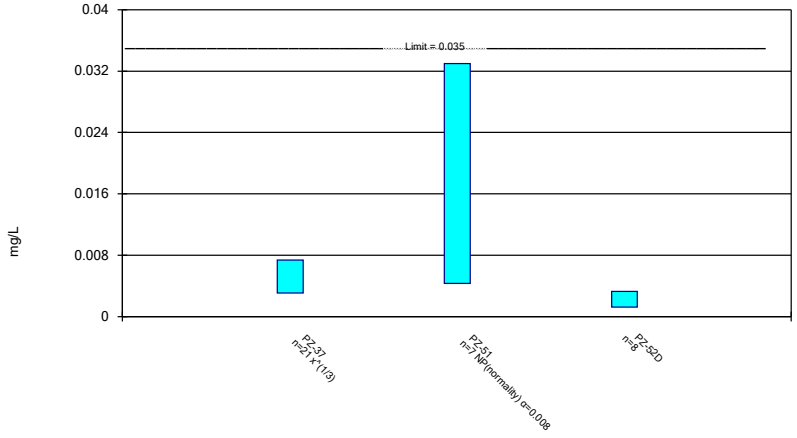


Constituent: Cobalt Analysis Run 7/7/2025 2:59 PM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG

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.

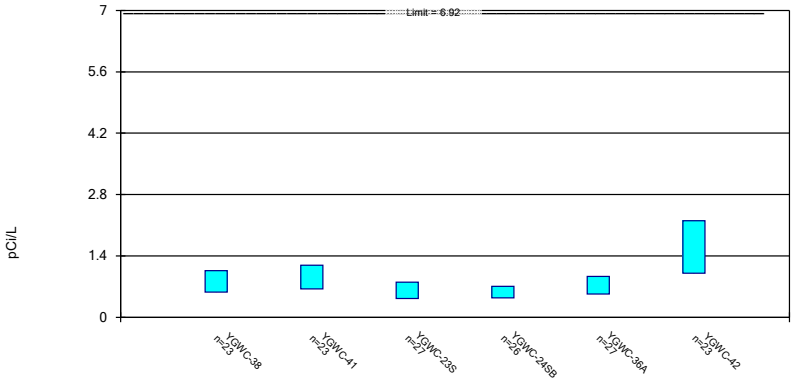


Constituent: Cobalt Analysis Run 7/7/2025 2:59 PM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

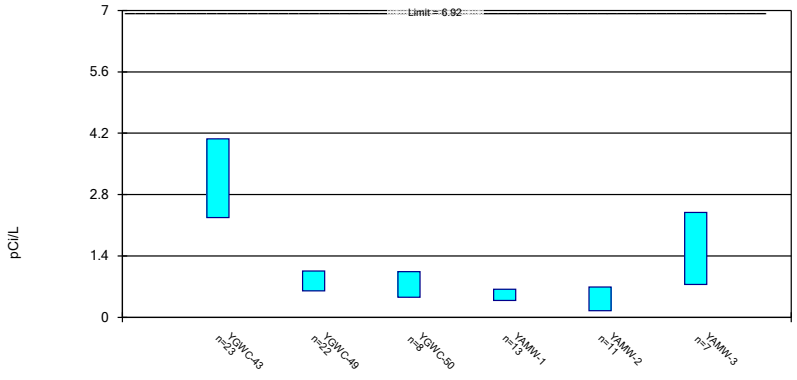


Constituent: Combined Radium 226 + 228 Analysis Run 7/7/2025 2:59 PM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

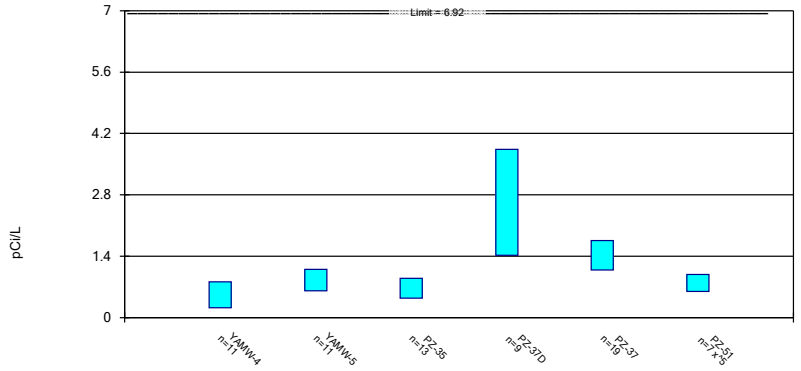


Constituent: Combined Radium 226 + 228 Analysis Run 7/7/2025 2:59 PM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

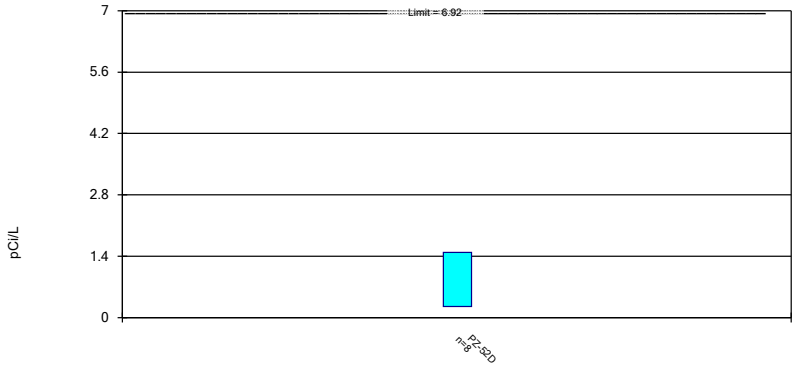


Constituent: Combined Radium 226 + 228 Analysis Run 7/7/2025 2:59 PM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

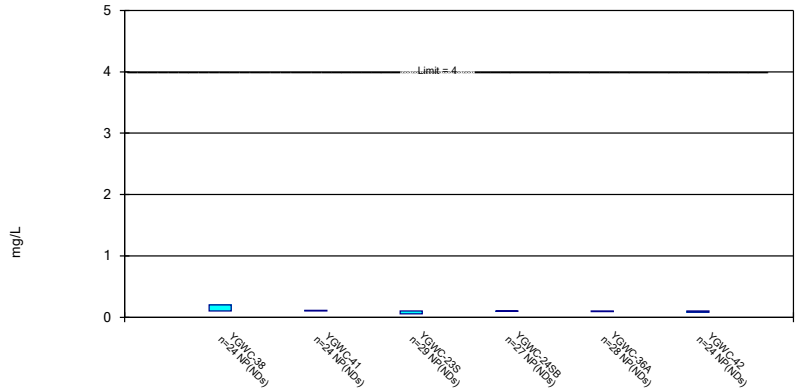


Constituent: Combined Radium 226 + 228 Analysis Run 7/7/2025 2:59 PM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

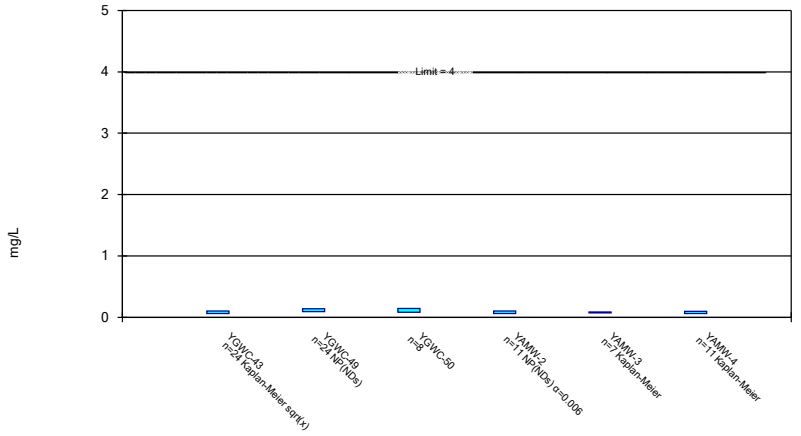


Constituent: Fluoride Analysis Run 7/7/2025 2:59 PM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG

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.

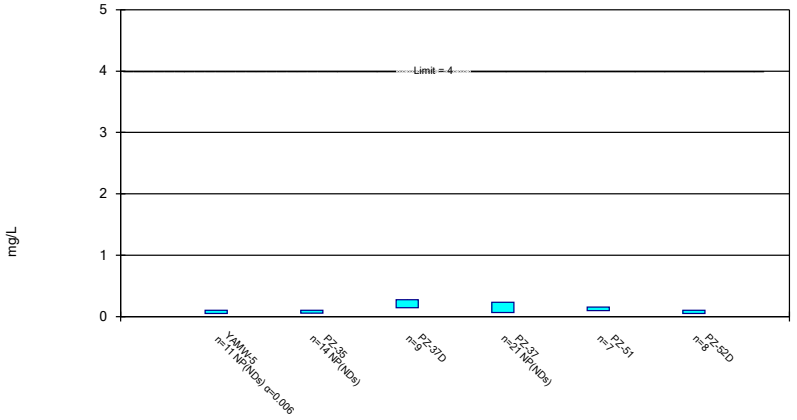


Constituent: Fluoride Analysis Run 7/7/2025 2:59 PM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG

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.

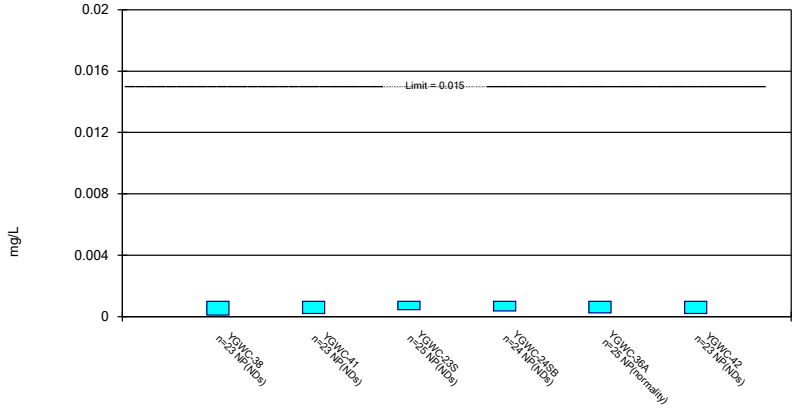


Constituent: Fluoride Analysis Run 7/7/2025 2:59 PM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

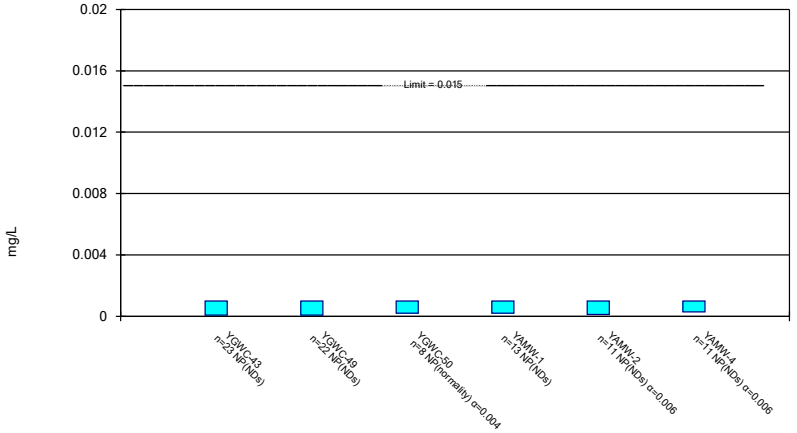


Constituent: Lead Analysis Run 7/7/2025 2:59 PM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.

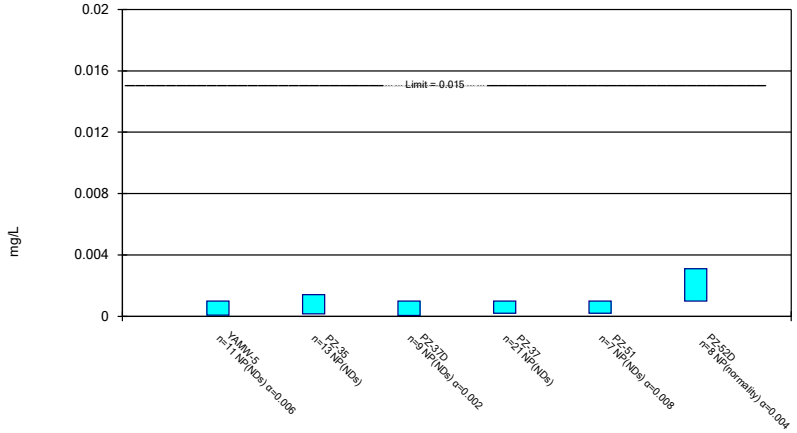


Constituent: Lead Analysis Run 7/7/2025 2:59 PM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.

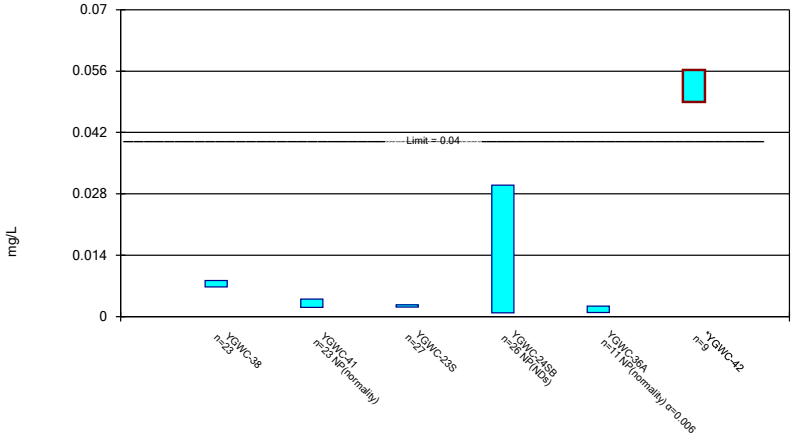


Constituent: Lead Analysis Run 7/7/2025 2:59 PM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG

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.

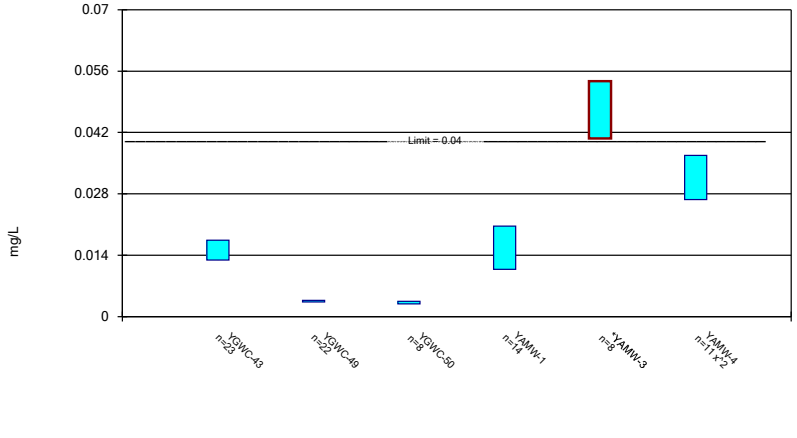


Constituent: Lithium Analysis Run 7/7/2025 2:59 PM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

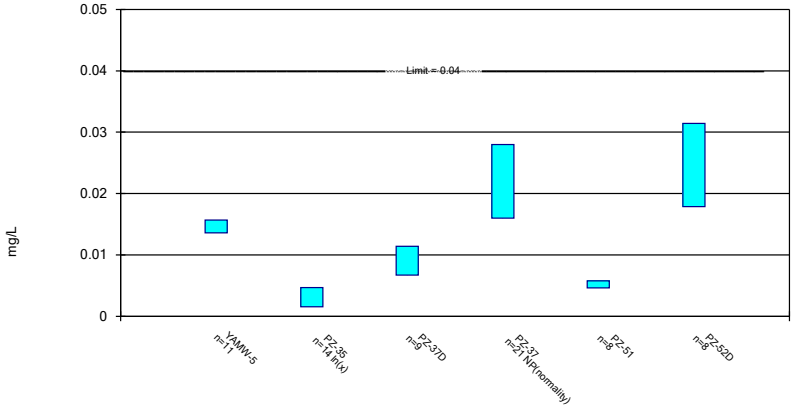


Constituent: Lithium Analysis Run 7/7/2025 2:59 PM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

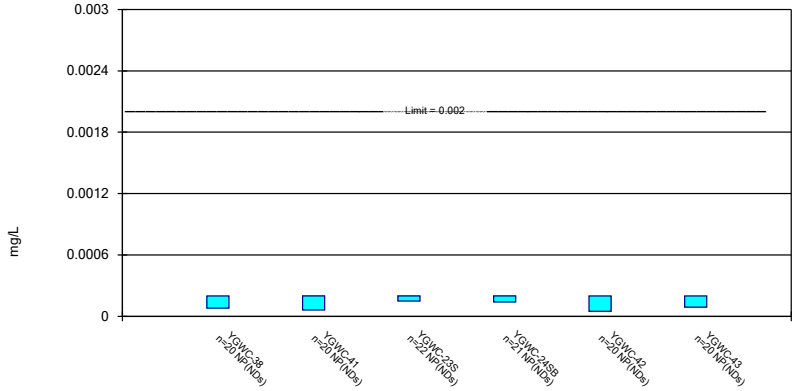


Constituent: Lithium Analysis Run 7/7/2025 3:00 PM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

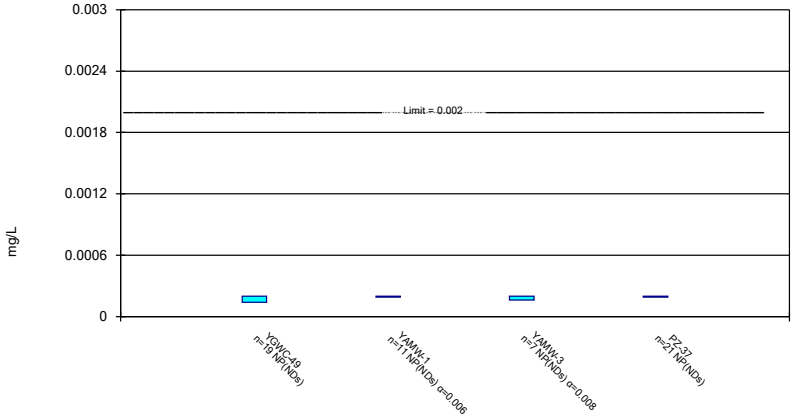


Constituent: Mercury Analysis Run 7/7/2025 3:00 PM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.

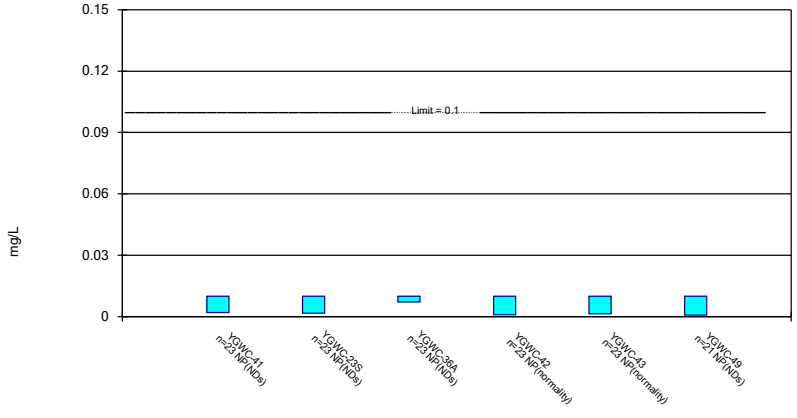


Constituent: Mercury Analysis Run 7/7/2025 3:00 PM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

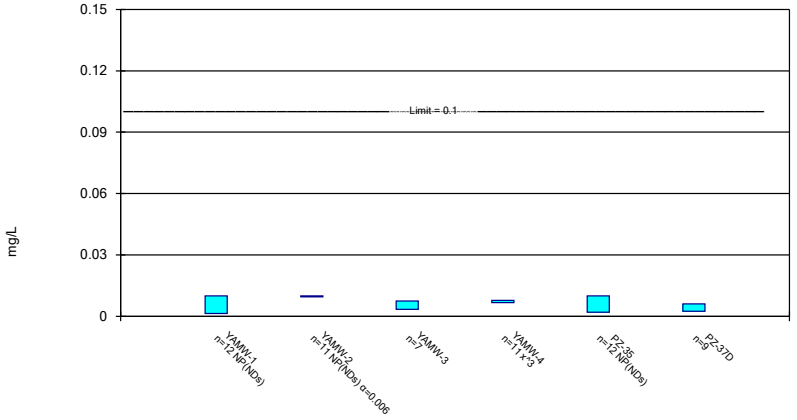


Constituent: Molybdenum Analysis Run 7/7/2025 3:00 PM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG

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.

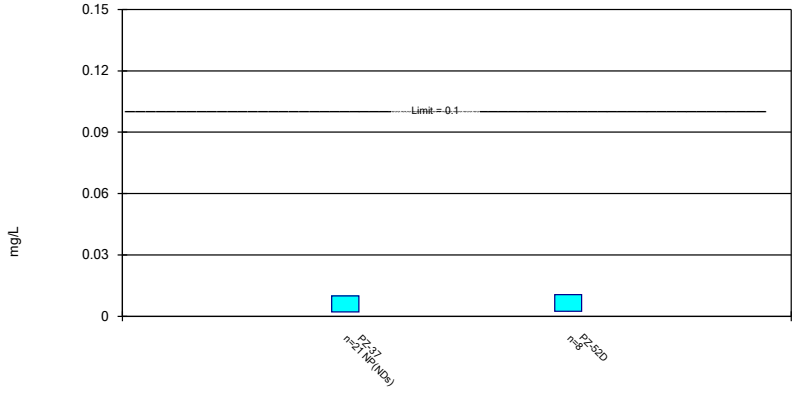


Constituent: Molybdenum Analysis Run 7/7/2025 3:00 PM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

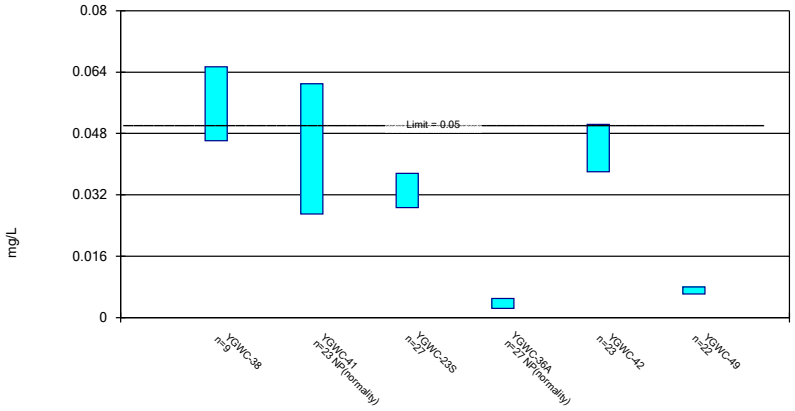


Constituent: Molybdenum Analysis Run 7/7/2025 3:00 PM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

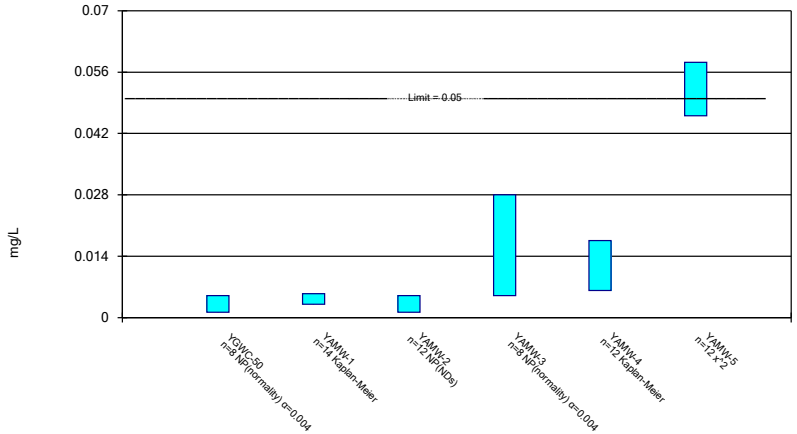


Constituent: Selenium Analysis Run 7/7/2025 3:00 PM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

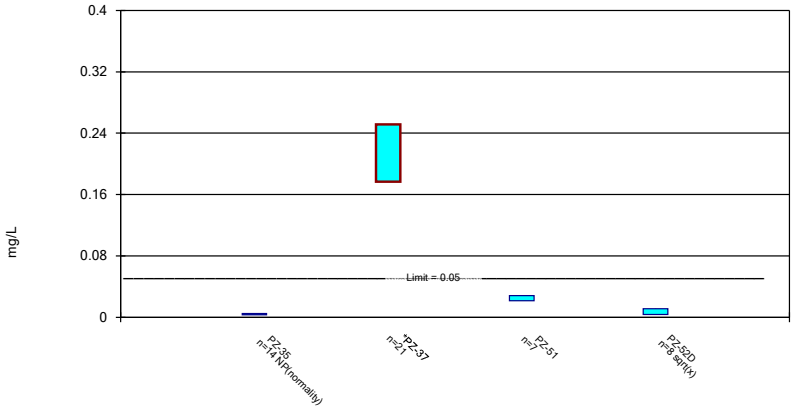


Constituent: Selenium Analysis Run 7/7/2025 3:00 PM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

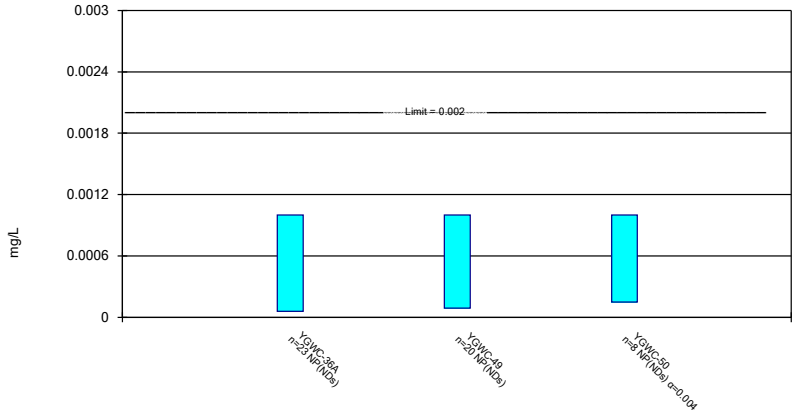


Constituent: Selenium Analysis Run 7/7/2025 3:00 PM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Thallium Analysis Run 7/7/2025 3:00 PM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AMA-R6

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 7/7/2025 3:02 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38	YGWC-41	YGWC-23S	YGWC-24SB	YGWC-36A	YGWC-42
6/7/2016			<0.003			
6/8/2016				<0.003		
7/28/2016			<0.003			
8/1/2016				<0.003		
8/30/2016						<0.003
9/2/2016					<0.003	
9/20/2016			<0.003	0.0009 (J)		
11/8/2016			<0.003	<0.003		
11/14/2016					0.0014 (J)	
11/16/2016						<0.003
1/16/2017			<0.003			
1/17/2017				<0.003		
2/27/2017						<0.003
2/28/2017					0.0004 (J)	
3/8/2017				<0.003		
3/9/2017			<0.003			
5/2/2017			<0.003	<0.003		
5/9/2017					<0.003	
5/10/2017						<0.003
7/7/2017				<0.003		
7/10/2017			<0.003			
7/11/2017						<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	<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	<0.003	<0.003	
4/3/2018	<0.003	<0.003				
4/4/2018						<0.003
6/27/2018		<0.003				
6/28/2018	<0.003					
8/7/2018	0.0015 (J)	<0.003				
9/20/2018						<0.003
9/24/2018	<0.003	<0.003				
3/5/2019				<0.003		
3/6/2019			<0.003		0.0011 (J)	
4/4/2019			<0.003	<0.003	0.0041	
8/22/2019	<0.003	<0.003				<0.003
9/26/2019				<0.003	0.0065	
9/27/2019			0.00029 (J)			
12/9/2019					0.0014 (J)	
2/13/2020				<0.003		
2/14/2020	0.00031 (J)	<0.003			0.0027 (J)	<0.003
2/17/2020			<0.003			
3/25/2020	0.00063 (J)	<0.003			0.0011 (J)	<0.003

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 7/7/2025 3:02 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38	YGWC-41	YGWC-23S	YGWC-24SB	YGWC-36A	YGWC-42
3/26/2020			<0.003	<0.003		
9/23/2020				<0.003		
9/24/2020			0.00085 (J)			<0.003
9/25/2020	0.00061 (J)	<0.003				
10/7/2020					<0.003	
2/9/2021	0.00031 (J)		0.00052 (J)	<0.003		
2/10/2021		0.0014 (J)			0.028	0.00053 (J)
3/3/2021				<0.003		
3/4/2021	<0.003	<0.003	<0.003		0.0015 (J)	<0.003
8/25/2021			<0.003			<0.003
8/26/2021	<0.003	<0.003				
9/1/2021				<0.003		
9/3/2021					0.0016 (J)	
2/8/2022		<0.003				
2/10/2022	<0.003		<0.003	<0.003		<0.003
2/11/2022					0.0023 (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
2/9/2023					<0.003	
2/10/2023				<0.003		
8/16/2023	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
2/21/2024			<0.003			
2/22/2024	<0.003	<0.003				<0.003
2/23/2024				<0.003	<0.003	
8/21/2024			0.00058 (J)			
8/22/2024				<0.003	0.0012 (J)	<0.003
8/23/2024	<0.003	<0.003				
2/26/2025	<0.003	<0.003			<0.003	<0.003
2/27/2025			<0.003			
3/17/2025				<0.003		
Mean	0.002471	0.002927	0.00261	0.002913	0.00355	0.002888
Std. Dev.	0.001021	0.0003411	0.0009166	0.0004287	0.005129	0.0005266
Upper Lim.	0.003	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.0015	0.0014	0.00085	0.0009	0.0015	0.00053

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 7/7/2025 3:02 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-43	YGWC-49	YGWC-50	YAMW-1	YAMW-4	YAMW-5
8/31/2016	<0.003					
9/1/2016		<0.003				
11/15/2016		<0.003				
11/16/2016	<0.003					
2/24/2017	<0.003					
2/27/2017		0.0011 (J)				
5/9/2017		<0.003				
5/10/2017	<0.003					
7/11/2017	<0.003					
7/13/2017		<0.003				
10/11/2017		<0.003				
10/12/2017	<0.003					
4/4/2018	<0.003	<0.003				
9/20/2018	<0.003	<0.003				
8/21/2019	<0.003					
9/26/2019		<0.003		<0.003		
2/17/2020	<0.003	<0.003				
3/25/2020	0.00031 (J)	0.00053 (J)		<0.003		
9/23/2020					0.00065 (J)	
9/24/2020		<0.003		<0.003		0.00033 (J)
9/25/2020	<0.003					
2/9/2021	<0.003	<0.003		0.00037 (J)	0.0011 (J)	<0.003
3/3/2021				0.025	0.00062 (J)	
3/4/2021	<0.003	<0.003				<0.003
8/25/2021					<0.003	
8/26/2021						<0.003
9/1/2021		<0.003		0.0024 (J)		
9/27/2021	<0.003					
2/8/2022	<0.003	<0.003				
2/10/2022				<0.003	<0.003	<0.003
8/31/2022		<0.003		0.0016 (J)		
9/1/2022	<0.003				<0.003	<0.003
2/8/2023	<0.003				<0.003	<0.003
2/9/2023		<0.003		<0.003		
8/16/2023	0.0026 (J)	<0.003		<0.003	<0.003	<0.003
8/17/2023			<0.003			
12/20/2023			<0.003			
2/21/2024		<0.003				
2/22/2024	<0.003		0.00076 (J)		<0.003	<0.003
2/23/2024				0.0023 (J)		
6/10/2024			0.0034			
8/22/2024	<0.003	<0.003		<0.003		
8/23/2024			0.00078 (J)		0.0013 (J)	<0.003
11/26/2024			0.00092 (J)			
2/26/2025		<0.003	0.00062 (J)	<0.003	<0.003	
2/27/2025	<0.003					<0.003
5/21/2025			<0.003			
Mean	0.00286	0.002801	0.001935	0.004282	0.002243	0.002757
Std. Dev.	0.0005758	0.0006489	0.001255	0.006274	0.001067	0.000805
Upper Lim.	0.003	0.003	0.0034	0.025	0.003	0.003
Lower Lim.	0.0026	0.0011	0.00062	0.0016	0.00065	0.003

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 7/7/2025 3:02 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AMA-R6

	PZ-35	PZ-37D	PZ-37	PZ-52D
10/12/2017			<0.003	
11/21/2017			<0.003	
1/11/2018			<0.003	
2/20/2018			<0.003	
4/3/2018			<0.003	
6/29/2018			<0.003	
8/6/2018			<0.003	
9/24/2018			<0.003	
9/26/2019	<0.003			
3/25/2020	<0.003			
9/24/2020	<0.003			
9/25/2020			0.0014 (J)	
2/9/2021			0.00035 (J)	
2/10/2021	<0.003			
3/4/2021	0.00039 (J)		<0.003	
5/13/2021		0.00052		
8/25/2021			<0.003	
9/1/2021	<0.003			
9/3/2021		<0.003		
11/4/2021				<0.003
2/10/2022	<0.003		<0.003	
2/11/2022		<0.003		<0.003
4/4/2022			<0.003	
4/7/2022			<0.003	
8/31/2022	<0.003			
9/1/2022		<0.003	0.00091 (J)	<0.003
2/8/2023		0.0015 (J)	<0.003	<0.003
2/9/2023	<0.003			
8/16/2023	<0.003	<0.003		
8/17/2023			<0.003	<0.003
2/21/2024		<0.003	<0.003	<0.003
2/23/2024	<0.003			
8/21/2024		0.0013 (J)	0.0085	0.00081 (J)
8/22/2024	<0.003			
2/25/2025	<0.003			
2/27/2025		<0.003	0.001 (J)	0.016
Mean	0.002799	0.002369	0.002865	0.004351
Std. Dev.	0.0007239	0.0009814	0.001546	0.004769
Upper Lim.	0.003	0.003	0.0085	0.016
Lower Lim.	0.00039	0.00052	0.0014	0.00081

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 7/7/2025 3:02 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38	YGWC-41	YGWC-23S	YGWC-24SB	YGWC-36A	YGWC-42
6/7/2016			<0.005			
6/8/2016				<0.005		
7/28/2016			<0.005			
8/1/2016				<0.005		
8/30/2016						0.0023 (J)
9/2/2016					<0.005	
9/20/2016			<0.005	<0.005		
11/8/2016			<0.005	<0.005		
11/14/2016					<0.005	
11/16/2016						0.0017 (J)
1/16/2017			<0.005			
1/17/2017				<0.005		
2/27/2017						0.002 (J)
2/28/2017					0.0006 (J)	
3/8/2017				<0.005		
3/9/2017			<0.005			
5/2/2017			0.0004 (J)	0.0005 (J)		
5/9/2017					0.0006 (J)	
5/10/2017						0.0022 (J)
7/7/2017				<0.005		
7/10/2017			<0.005			
7/11/2017						0.003 (J)
7/13/2017					<0.005	
9/22/2017					<0.005	
9/29/2017					<0.005	
10/6/2017					<0.005	
10/12/2017	0.0023 (J)	0.0011 (J)				0.0031 (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	<0.005	<0.005	
4/3/2018	0.0015 (J)	0.00072 (J)				
4/4/2018						0.0023 (J)
6/12/2018			<0.005	<0.005		
6/13/2018					0.00066 (J)	
6/27/2018		0.00062 (J)				
6/28/2018	0.0017 (J)					
8/7/2018	0.00072 (J)	<0.005				
9/20/2018						0.0018 (J)
9/24/2018	0.0017 (J)	0.001 (J)				
9/26/2018				<0.005	<0.005	
9/27/2018			<0.005			
3/5/2019				<0.005		
3/6/2019			<0.005		<0.005	
4/4/2019			<0.005	<0.005	<0.005	
8/22/2019	0.00055 (J)	0.00036 (J)				0.00089 (J)
9/26/2019				<0.005	<0.005	
9/27/2019			<0.005			
10/9/2019	0.00057 (J)	0.00052 (J)				0.00078 (J)

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 7/7/2025 3:02 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38	YGWC-41	YGWC-23S	YGWC-24SB	YGWC-36A	YGWC-42
2/13/2020				<0.005		
2/14/2020	0.0021 (J)	0.0014 (J)			0.0026 (J)	0.0033 (J)
2/17/2020			0.0019 (J)			
3/25/2020	0.00068 (J)	0.001 (J)			<0.005	0.0013 (J)
3/26/2020			0.0012 (J)	0.0015 (J)		
9/23/2020				<0.005		
9/24/2020			<0.005			<0.005
9/25/2020	<0.005	<0.005				
10/7/2020					<0.005	
2/9/2021	0.00098 (J)		<0.005	<0.005		
2/10/2021		<0.005			0.00088 (J)	0.0016 (J)
3/3/2021				<0.005		
3/4/2021	<0.005	<0.005	<0.005		<0.005	<0.005
8/25/2021			<0.005			0.0014 (J)
8/26/2021	0.0013 (J)	<0.005				
9/1/2021				<0.005		
9/3/2021					<0.005	
2/8/2022		0.0021 (J)				
2/10/2022	0.0017 (J)		0.0025 (J)	0.0024 (J)		0.0026 (J)
2/11/2022					0.0014 (J)	
9/1/2022	<0.005	<0.005	<0.005		<0.005	<0.005
2/8/2023	<0.005	0.0027 (J)	<0.005			0.0025 (J)
2/9/2023					0.0047 (J)	
2/10/2023				0.0035 (J)		
8/16/2023	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/21/2024			<0.005			
2/22/2024	<0.005	<0.005				0.0014 (J)
2/23/2024				<0.005	<0.005	
8/21/2024			<0.005			
8/22/2024				<0.005	<0.005	0.0021 (J)
8/23/2024	<0.005	<0.005				
2/26/2025	<0.005	<0.005			<0.005	<0.005
2/27/2025			<0.005			
3/17/2025				<0.005		
Mean	0.002546	0.003327	0.004481	0.004535	0.004127	0.002664
Std. Dev.	0.001887	0.002007	0.001304	0.001198	0.001673	0.001411
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.002289
Lower Lim.	0.00096	0.001	0.0025	0.0035	0.0047	0.001498

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 7/7/2025 3:02 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-43	YGWC-49	YGWC-50	YAMW-1	YAMW-3	YAMW-4
8/31/2016	<0.005					
9/1/2016		<0.005				
11/15/2016		<0.005				
11/16/2016	<0.005					
2/24/2017	<0.005					
2/27/2017		<0.005				
5/9/2017		<0.005				
5/10/2017	<0.005					
7/11/2017	<0.005					
7/13/2017		<0.005				
10/11/2017		0.0006 (J)				
10/12/2017	<0.005					
4/4/2018	<0.005	<0.005				
9/20/2018	0.00099 (J)	0.001 (J)				
10/16/2018				<0.005		
8/21/2019	<0.005					
9/26/2019		<0.005		<0.005		
10/9/2019	0.00051 (J)					
2/17/2020	<0.005	0.0028 (J)				
3/25/2020	0.0007 (J)	0.00086 (J)		<0.005		
9/23/2020						<0.005
9/24/2020		<0.005		<0.005		
9/25/2020	<0.005					
2/9/2021	<0.005	<0.005		<0.005		0.001 (J)
3/3/2021				<0.005		0.00079 (J)
3/4/2021	<0.005	<0.005				
8/25/2021						<0.005
9/1/2021		<0.005		<0.005		
9/27/2021	<0.005					
2/8/2022	0.0022 (J)	<0.005				
2/10/2022				0.0023 (J)	0.0038 (J)	0.0026 (J)
8/31/2022		<0.005		<0.005		
9/1/2022	<0.005				<0.005	<0.005
2/8/2023	0.0033 (J)					0.0037 (J)
2/9/2023		<0.005		0.0034 (J)	<0.005	
8/16/2023	<0.005	<0.005		<0.005	<0.005	<0.005
8/17/2023			<0.005			
12/20/2023			0.0019 (J)			
2/21/2024		<0.005			0.0015 (J)	
2/22/2024	<0.005		0.0016 (J)			0.001 (J)
2/23/2024				<0.005		
6/10/2024			0.0014 (J)			
8/22/2024	0.00095 (J)	<0.005		0.00093 (J)	0.0022 (J)	
8/23/2024			0.0044 (J)			0.0024 (J)
11/26/2024			0.0045 (J)			
2/26/2025		<0.005	<0.005	<0.005	<0.005	<0.005
2/27/2025	<0.005					
5/21/2025			<0.005			
Mean	0.004072	0.00433	0.0036	0.004402	0.003929	0.003317
Std. Dev.	0.001679	0.001503	0.00165	0.001283	0.0015	0.001811
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.0033	0.0028	0.0014	0.0034	0.0015	0.001

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 7/7/2025 3:02 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-5	PZ-35	PZ-37D	PZ-37	PZ-51	PZ-52D
10/12/2017				0.0014 (J)		
11/21/2017				0.0008 (J)		
1/11/2018				0.0006 (J)		
2/20/2018				<0.005		
4/3/2018				0.0012 (J)		
6/29/2018				0.0011 (J)		
8/6/2018				<0.005		
9/24/2018				0.00094 (J)		
10/16/2018		0.00069 (J)				
9/26/2019		<0.005				
3/25/2020		<0.005				
9/24/2020	0.0015 (J)	<0.005				
9/25/2020				<0.005		
2/9/2021	0.00095 (J)			0.0015 (J)		
2/10/2021		0.00096 (J)				
3/4/2021	<0.005	<0.005		<0.005		
5/13/2021			<0.005			
8/25/2021				0.0014 (J)		
8/26/2021	<0.005					
9/1/2021		<0.005				
9/3/2021			<0.005			
11/4/2021						0.0019 (J)
2/10/2022	0.0024 (J)	0.0018 (J)		0.0017 (J)	0.0013 (J)	
2/11/2022			<0.005			0.0014 (J)
4/4/2022				0.0034 (J)		
4/7/2022				0.0035 (J)		
8/31/2022		<0.005				
9/1/2022	<0.005		<0.005	<0.005	<0.005	<0.005
2/8/2023	0.0038 (J)		<0.005	<0.005		0.0032 (J)
2/9/2023		0.0028 (J)			<0.005	
8/16/2023	<0.005	<0.005	<0.005		<0.005	
8/17/2023				<0.005		<0.005
2/21/2024			0.0014 (J)	0.0023 (J)		0.0013 (J)
2/22/2024	0.0011 (J)				<0.005	
2/23/2024		<0.005				
8/21/2024			0.0038 (J)	0.0037 (J)		0.0055
8/22/2024		0.0014 (J)			0.0017 (J)	
8/23/2024	0.0025 (J)					
2/25/2025		<0.005				
2/27/2025	<0.005		<0.005	<0.005	<0.005	<0.005
Mean	0.003386	0.003761	0.004467	0.003026	0.004	0.003537
Std. Dev.	0.001723	0.001785	0.001217	0.001791	0.001712	0.001798
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.0055
Lower Lim.	0.0011	0.0014	0.0014	0.0012	0.0013	0.0013

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 7/7/2025 3:02 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38	YGWC-41	YGWC-23S	YGWC-24SB	YGWC-36A	YGWC-42
6/7/2016			0.045			
6/8/2016				0.02		
7/28/2016			0.0511			
8/1/2016				0.02		
8/30/2016						0.0455
9/2/2016					0.0409	
9/20/2016			0.0561	0.0203		
11/8/2016			0.054	0.0191		
11/14/2016					0.0182	
11/16/2016						0.0541
1/16/2017			0.0528			
1/17/2017				0.0192		
2/27/2017						0.0573
2/28/2017					0.023	
3/8/2017				0.0189		
3/9/2017			0.0469			
5/2/2017			0.0427	0.019		
5/9/2017					0.0349	
5/10/2017						0.0517
7/7/2017				0.019		
7/10/2017			0.0395			
7/11/2017						0.0451
7/13/2017					0.0484	
9/22/2017					0.0491	
9/29/2017					0.0452	
10/6/2017					0.0508	
10/12/2017	0.0269	0.0394				0.0429
11/20/2017	0.0255					
11/21/2017		0.032				
1/11/2018		0.03				
1/12/2018	0.0236					
2/19/2018		0.031				
2/20/2018	0.026					
3/30/2018			0.03	0.02	0.043	
4/3/2018	0.023	0.03				
4/4/2018						0.041
6/12/2018			0.024	0.018		
6/13/2018					0.046	
6/27/2018		0.028				
6/28/2018	0.024					
8/7/2018	0.023	0.027				
9/20/2018						0.038
9/24/2018	0.021	0.026				
9/26/2018				0.019	0.048	
9/27/2018			0.022			
3/5/2019				0.019		
3/6/2019			0.019		0.041	
4/4/2019			0.019	0.02	0.042	
8/22/2019	0.019	0.021				0.031
9/26/2019				0.017	0.025	
9/27/2019			0.018			
10/9/2019	0.019	0.021				0.027

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 7/7/2025 3:02 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38	YGWC-41	YGWC-23S	YGWC-24SB	YGWC-36A	YGWC-42
2/13/2020				0.016		
2/14/2020	0.019	0.024			0.026	0.031
2/17/2020			0.024			
3/25/2020	0.018	0.021			0.025	0.03
3/26/2020			0.027	0.019		
9/23/2020				0.026		
9/24/2020			0.035			0.026
9/25/2020	0.015	0.016				
10/7/2020					0.04	
2/9/2021	0.016		0.042	0.031		
2/10/2021		0.017			0.035	0.031
3/3/2021				0.025		
3/4/2021	0.016	0.017	0.043		0.028	0.03
8/25/2021			0.049			0.027
8/26/2021	0.016	0.018				
9/1/2021				0.025		
9/3/2021					0.038	
2/8/2022		0.021				
2/10/2022	0.016		0.058	0.026		0.026
2/11/2022					0.044	
9/1/2022	0.014	0.019	0.053		0.059	0.023
2/8/2023	0.016	0.022	0.053			0.023
2/9/2023					0.097	
2/10/2023				0.031		
8/16/2023	0.015	0.02	0.052	0.025	0.19	0.024
2/21/2024			0.053			
2/22/2024	0.015	0.019				0.021
2/23/2024				0.032	0.13	
8/21/2024			0.057			
8/22/2024				0.025	0.089	0.022
8/23/2024	0.016	0.019				
2/26/2025	0.017	0.021			0.073	0.023
2/27/2025			0.08			
3/17/2025				0.027		
Mean	0.01913	0.02345	0.04245	0.02217	0.05294	0.0335
Std. Dev.	0.004087	0.005963	0.01534	0.004565	0.0368	0.01111
Upper Lim.	0.02127	0.02657	0.04976	0.025	0.05832	0.03844
Lower Lim.	0.01699	0.02033	0.03513	0.019	0.0352	0.0274

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 7/7/2025 3:02 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-43	YGWC-49	YGWC-50	YAMW-1	YAMW-2	YAMW-3
8/31/2016	0.0065 (J)					
9/1/2016		0.077				
11/15/2016		0.0772				
11/16/2016	0.0092 (J)					
2/24/2017	0.0144					
2/27/2017		0.0888				
5/9/2017		0.0792				
5/10/2017	0.0173					
7/11/2017	0.0183					
7/13/2017		0.0839				
10/11/2017		0.078				
10/12/2017	0.0205					
4/4/2018	0.024	0.074				
9/20/2018	0.035	0.074				
10/16/2018				0.048		
8/21/2019	0.03					
9/26/2019		0.065		0.047		
10/9/2019	0.04					
2/17/2020	0.037	0.071				
3/25/2020	0.033	0.071		0.04		
9/23/2020					0.0092 (J)	
9/24/2020		0.066		0.028		
9/25/2020	0.046					
2/9/2021	0.041	0.071		0.039	0.0085 (J)	
3/3/2021				0.035	0.0082	
3/4/2021	0.039	0.069				
9/1/2021		0.066		0.075	0.0072	
9/27/2021	0.0097					
2/8/2022	0.029	0.07				
2/10/2022				0.084	0.0074	0.038
8/31/2022		0.058		0.085		
9/1/2022	0.029				0.0092	0.024
2/8/2023	0.031				0.0064	
2/9/2023		0.063		0.078		0.045
8/16/2023	0.029	0.058		0.092		0.026
8/17/2023			0.022		0.0092	
12/20/2023			0.02			
2/21/2024		0.054				0.032
2/22/2024	0.028		0.018		0.0068	
2/23/2024				0.087		
6/10/2024			0.016			
8/21/2024					0.0089	
8/22/2024	0.035	0.054		0.086		0.031
8/23/2024			0.017			
11/26/2024			0.019			
2/26/2025		0.055	0.017	0.083	0.01	0.034
2/27/2025	0.031					
5/21/2025			0.015 (J)			
Mean	0.02752	0.06923	0.018	0.06479	0.008273	0.03286
Std. Dev.	0.01087	0.009637	0.002268	0.02352	0.001166	0.007128
Upper Lim.	0.0332	0.0744	0.0204	0.086	0.009245	0.04132
Lower Lim.	0.02183	0.06406	0.0156	0.039	0.007301	0.02439

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 7/7/2025 3:02 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-4	YAMW-5	PZ-35	PZ-37D	PZ-37	PZ-51
10/12/2017					0.064	
11/21/2017					0.0579	
1/11/2018					0.0549	
2/20/2018					0.059	
4/3/2018					0.051	
6/29/2018					0.054	
8/6/2018					0.048	
9/24/2018					0.047	
10/16/2018			0.063			
9/26/2019			0.039			
3/25/2020			0.039			
9/23/2020	0.0063 (J)					
9/24/2020		0.057	0.034			
9/25/2020					0.034	
2/9/2021	0.02	0.042			0.036	
2/10/2021			0.032			
3/3/2021	0.021					
3/4/2021		0.039	0.033		0.036	
5/13/2021				0.015		
8/25/2021	0.0037 (J)				0.035	
8/26/2021		0.036				
9/1/2021			0.067			
9/3/2021				0.015		
2/10/2022	0.0033 (J)	0.034	0.074		0.029	0.017
2/11/2022				0.013		
4/4/2022					0.024	
4/7/2022					0.026	
8/31/2022			0.1			
9/1/2022	0.003 (J)	0.034		0.033	0.023	0.013
2/8/2023	0.003 (J)	0.039		0.018	0.022	
2/9/2023			0.13			0.015
8/16/2023	0.0031 (J)	0.036	0.18	0.021		0.014
8/17/2023					0.023	
2/21/2024				0.02	0.021	
2/22/2024	0.003 (J)	0.035				0.015
2/23/2024			0.21			
8/21/2024				0.028	0.022	
8/22/2024			0.15			0.014
8/23/2024	0.0031 (J)	0.035				
2/25/2025			0.25			
2/26/2025	0.0033 (J)					
2/27/2025		0.038		0.021	0.023	0.015
Mean	0.006618	0.03864	0.1001	0.02044	0.03761	0.01471
Std. Dev.	0.006932	0.006577	0.07256	0.006483	0.01472	0.001254
Upper Lim.	0.02	0.042	0.1416	0.0267	0.04573	0.0162
Lower Lim.	0.003	0.034	0.04804	0.01419	0.02949	0.01323

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 7/7/2025 3:02 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AMA-R6

	PZ-52D
11/4/2021	0.026
2/11/2022	0.032
9/1/2022	0.015
2/8/2023	0.012
8/17/2023	0.011
2/21/2024	0.0091
8/21/2024	0.0079
2/27/2025	0.016
Mean	0.01613
Std. Dev.	0.008545
Upper Lim.	0.02518
Lower Lim.	0.007068

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 7/7/2025 3:02 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38	YGWC-41	YGWC-23S	YGWC-24SB	YGWC-36A	YGWC-42
6/7/2016			<0.003			
6/8/2016				<0.003		
7/28/2016			<0.003			
8/1/2016				0.0001 (J)		
8/30/2016						9E-05 (J)
9/2/2016					0.0003 (J)	
9/20/2016			0.0001 (J)	0.0001 (J)		
11/8/2016			0.0001 (J)	0.0001 (J)		
11/14/2016					9E-05 (J)	
11/16/2016						<0.0005
1/16/2017			0.0001 (J)			
1/17/2017				0.0001 (J)		
2/27/2017						<0.0005
2/28/2017					0.0001 (J)	
3/8/2017				0.0001 (J)		
3/9/2017			0.0001 (J)			
5/2/2017			9E-05 (J)	0.0001 (J)		
5/9/2017					0.0002 (J)	
5/10/2017						9E-05 (J)
7/7/2017				0.0001 (J)		
7/10/2017			<0.003			
7/11/2017						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	0.0057	0.0036				<0.0005
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	<0.003	<0.003	
4/3/2018	0.0056	0.0037				
4/4/2018						<0.0005
6/12/2018			8.1E-05 (J)	0.00012 (J)		
6/13/2018					0.00035 (J)	
6/27/2018		0.0038				
6/28/2018	0.0059					
8/7/2018	0.0058	0.0037				
9/20/2018						<0.0005
9/24/2018	0.0051	0.0032				
9/26/2018				0.00014 (J)	0.00032 (J)	
9/27/2018			9E-05 (J)			
3/5/2019				0.00016 (J)		
3/6/2019			6.6E-05 (J)		0.00029 (J)	
4/4/2019			7.2E-05 (J)	0.00015 (J)	0.00033 (J)	
8/22/2019	0.0049	0.0026 (J)				<0.0005
9/26/2019				0.00014 (J)	0.00029 (J)	
9/27/2019			7.7E-05 (J)			
10/9/2019	0.0046	0.0026 (J)				<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 7/7/2025 3:02 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38	YGWC-41	YGWC-23S	YGWC-24SB	YGWC-36A	YGWC-42
2/13/2020				0.00014 (J)		
2/14/2020	0.0042	0.0026 (J)			0.00019 (J)	<0.0005
2/17/2020			8.1E-05 (J)			
3/25/2020	0.0038	0.0026 (J)			0.00022 (J)	<0.0005
3/26/2020			9E-05 (J)	0.00016 (J)		
9/23/2020				6.1E-05 (J)		
9/24/2020			0.00015 (J)			6.7E-05
9/25/2020	0.0033	0.002 (J)				
10/7/2020					0.00014 (J)	
2/9/2021	0.0029 (J)		0.00015 (J)	0.00013 (J)		
2/10/2021		0.0015 (J)			9.9E-05 (J)	5.7E-05 (J)
3/3/2021				9.9E-05 (J)		
3/4/2021	0.0029	0.0015	0.00013 (J)		0.00016 (J)	<0.0005
8/25/2021			0.00019 (J)			<0.0005
8/26/2021	0.0028	0.0012				
9/1/2021				0.00014 (J)		
9/3/2021					0.00035 (J)	
2/8/2022		0.0016				
2/10/2022	0.0027		0.00023 (J)	0.00016 (J)		6.1E-05 (J)
2/11/2022					0.00043 (J)	
9/1/2022	0.0022	0.0013	0.00019 (J)		0.00053	<0.0005
2/8/2023	0.002	0.0013	0.00022 (J)			6.2E-05 (J)
2/9/2023					0.00066	
2/10/2023				5.4E-05 (J)		
8/16/2023	0.0018	0.0012	0.0002 (J)	9.6E-05 (J)	0.0011	5.7E-05 (J)
2/21/2024			0.00019 (J)			
2/22/2024	0.0019	0.0014				<0.0005
2/23/2024				0.00015 (J)	0.0018	
8/21/2024			0.00019 (J)			
8/22/2024				0.00012 (J)	0.0021	<0.0005
8/23/2024	0.0015	0.0011				
2/26/2025	0.0018	0.0015			0.003	<0.0005
2/27/2025			0.0003 (J)			
3/17/2025				0.00016 (J)		
Mean	0.003796	0.0024	0.0003403	0.0002262	0.0005833	0.0003515
Std. Dev.	0.001545	0.001048	0.0004963	0.0003762	0.0007097	0.0002082
Upper Lim.	0.004604	0.0036	0.00022	0.00015	0.0005623	0.0005
Lower Lim.	0.002988	0.0014	9E-05	0.0001	0.0002334	9E-05

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 7/7/2025 3:02 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-43	YGWC-49	YGWC-50	YAMW-1	YAMW-2	YAMW-3
8/31/2016	<0.003					
9/1/2016		0.0001 (J)				
11/15/2016		0.0001 (J)				
11/16/2016	<0.003					
2/24/2017	<0.003					
2/27/2017		0.0001 (J)				
5/9/2017		0.0001 (J)				
5/10/2017	<0.003					
7/11/2017	<0.003					
7/13/2017		0.0001 (J)				
10/11/2017		0.0001 (J)				
10/12/2017	0.0001 (J)					
4/4/2018	<0.003	<0.0005				
9/20/2018	0.00029 (J)	0.00011 (J)				
10/16/2018				<0.0005		
8/21/2019	0.0003 (J)					
9/26/2019		0.00013 (J)		<0.0005		
10/9/2019	0.00034 (J)					
2/17/2020	0.00034 (J)	0.00011 (J)				
3/25/2020	0.00034 (J)	0.00013 (J)		0.00037 (J)		
9/23/2020					<0.0005	
9/24/2020		0.00013 (J)		5.8E-05 (J)		
9/25/2020	0.00054 (J)					
2/9/2021	0.00053 (J)	0.00013 (J)		<0.0005	5.1E-05 (J)	
3/3/2021				<0.0005	<0.0005	
3/4/2021	0.00056	0.0001 (J)				
9/1/2021		0.00012 (J)		9.5E-05 (J)	6.5E-05 (J)	
9/27/2021	0.00015 (J)					
2/8/2022	0.00037 (J)	0.00015 (J)				
2/10/2022				0.00016 (J)	7.4E-05 (J)	7.8E-05 (J)
8/31/2022		0.00017 (J)		0.00011 (J)		
9/1/2022	0.00033 (J)				5.7E-05 (J)	0.00011 (J)
2/8/2023	0.00036 (J)				5.5E-05 (J)	
2/9/2023		0.00012 (J)		0.00012 (J)		6.2E-05 (J)
8/16/2023	0.00034 (J)	0.00011 (J)		0.00028 (J)		0.00017 (J)
8/17/2023			0.0047		6.9E-05 (J)	
12/20/2023			0.0051			
2/21/2024		0.0001 (J)				0.00019 (J)
2/22/2024	0.00032 (J)		0.0049		<0.0005	
2/23/2024				0.00015 (J)		
6/10/2024			0.0046			
8/21/2024					<0.0005	
8/22/2024	0.00043 (J)	0.0001 (J)		9.5E-05 (J)		0.00012 (J)
8/23/2024			0.0041			
11/26/2024			0.0037			
2/26/2025		<0.0005	0.003	<0.0005	<0.0005	<0.0005
2/27/2025	0.00057					
5/21/2025			0.0026 (J)			
Mean	0.001053	0.0001277	0.004088	0.0002813	0.000261	0.00014
Std. Dev.	0.001188	4.375E-05	0.0009156	0.0001868	0.0002289	6.674E-05
Upper Lim.	0.00057	0.00013	0.005058	0.0005	0.0005	0.0002193
Lower Lim.	0.00033	0.0001	0.003117	9.5E-05	5.5E-05	6.072E-05

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 7/7/2025 3:02 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-5	PZ-35	PZ-37	PZ-51	PZ-52D
10/12/2017			0.0004 (J)		
11/21/2017			0.0004 (J)		
1/11/2018			0.0003 (J)		
2/20/2018			<0.003		
4/3/2018			<0.003		
6/29/2018			0.00033 (J)		
8/6/2018			0.0002 (J)		
8/30/2018		0.00052 (J)			
9/24/2018			0.00029 (J)		
10/16/2018		0.00036 (J)			
9/26/2019		<0.003			
1/15/2020	0.00017 (J)				
3/25/2020		<0.003			
9/24/2020	8.6E-05 (J)	0.00033 (J)			
9/25/2020			0.00031 (J)		
2/9/2021	0.00015 (J)		0.00029 (J)		
2/10/2021		0.00025 (J)			
3/4/2021	0.00013 (J)	0.00025 (J)	0.00017 (J)		
8/25/2021			0.00059		
8/26/2021	0.00012 (J)				
9/1/2021		0.00045 (J)			
11/4/2021					<0.0005
2/10/2022	0.00013 (J)	0.00055	0.001	0.0033	
2/11/2022					5.9E-05 (J)
4/4/2022			0.0012		
4/7/2022			0.00096		
8/31/2022		0.00061			
9/1/2022	0.00011 (J)		0.0011	0.0031	<0.0005
2/8/2023	0.00013 (J)		0.0011		<0.0005
2/9/2023		0.0008		0.0024	
8/16/2023	0.00011 (J)	0.0011		0.0028	
8/17/2023			0.0012		8.6E-05 (J)
2/21/2024			0.0012		<0.0005
2/22/2024	0.00013 (J)			0.0029	
2/23/2024		0.0015			
8/21/2024			0.0011		<0.0005
8/22/2024		0.00095		0.0032	
8/23/2024	0.00012 (J)				
2/25/2025		0.0026			
2/27/2025	0.00016 (J)		0.0015	0.0039	<0.0005
Mean	0.0001288	0.0008847	0.0007924	0.003086	0.0003931
Std. Dev.	2.3E-05	0.0006565	0.0004815	0.000467	0.000198
Upper Lim.	0.0001469	0.001226	0.0012	0.00364	0.0005
Lower Lim.	0.0001108	0.0004426	0.0003	0.002531	5.9E-05

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 7/7/2025 3:02 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38	YGWC-41	YGWC-23S	YGWC-36A	YGWC-42	YGWC-49
6/7/2016			<0.0005			
7/28/2016			<0.0005			
8/30/2016					<0.0005	
9/1/2016						<0.0005
9/2/2016				<0.001		
9/20/2016			<0.0005			
11/8/2016			7E-05 (J)			
11/14/2016				9E-05 (J)		
11/15/2016						<0.0005
11/16/2016					<0.0005	
1/16/2017			<0.0005			
2/27/2017					<0.0005	7E-05 (J)
2/28/2017				0.0001 (J)		
3/9/2017			<0.0005			
5/2/2017			<0.0005			
5/9/2017				0.0002 (J)		<0.0005
5/10/2017					0.0002 (J)	
7/10/2017			<0.0005			
7/11/2017					0.0005 (J)	
7/13/2017				0.0002 (J)		<0.0005
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	0.003	0.0002 (J)			0.0006 (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	<0.001		
4/3/2018	0.0027	<0.0005				
4/4/2018					<0.0005	<0.0005
6/12/2018			<0.0005			
6/13/2018				0.00019 (J)		
6/27/2018		0.00025 (J)				
6/28/2018	0.0029					
8/7/2018	0.0027	0.00024 (J)				
9/20/2018					0.0002 (J)	<0.0005
9/24/2018	0.0027	0.00021 (J)				
9/26/2018				0.00018 (J)		
9/27/2018			<0.0005			
3/6/2019			<0.0005	0.00015 (J)		
4/4/2019			<0.0005	0.00019 (J)		
8/22/2019	0.0023 (J)	0.00015 (J)			0.00017 (J)	
9/26/2019				0.00017 (J)		<0.0005
9/27/2019			<0.0005			
10/9/2019	0.0021 (J)	0.00017 (J)			0.00025 (J)	
2/14/2020	0.0021 (J)	0.0002 (J)		0.00017 (J)	0.00025 (J)	
2/17/2020			<0.0005			<0.0005
3/25/2020	0.0018 (J)	0.00018 (J)		0.00019 (J)	0.00021 (J)	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 7/7/2025 3:02 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38	YGWC-41	YGWC-23S	YGWC-36A	YGWC-42	YGWC-49
3/26/2020			<0.0005			
9/24/2020			<0.0005		0.00014 (J)	<0.0005
9/25/2020	0.0015 (J)	0.00014 (J)				
10/7/2020				0.00012 (J)		
2/9/2021	0.0014 (J)		<0.0005			<0.0005
2/10/2021		<0.0005		<0.0005	<0.0005	
3/4/2021	0.0013	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
8/25/2021			<0.0005		<0.0005	
8/26/2021	0.0011	<0.0005				
9/1/2021						<0.0005
9/3/2021				<0.0005		
2/8/2022		0.00012 (J)				<0.0005
2/10/2022	0.0011		<0.0005		<0.0005	
2/11/2022				<0.0005		
8/31/2022						<0.0005
9/1/2022	0.00094	<0.0005	<0.0005	<0.0005	<0.0005	
2/8/2023	0.00068	<0.0005	<0.0005		0.00014 (J)	
2/9/2023				<0.0005		<0.0005
8/16/2023	0.00074	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2/21/2024			<0.0005			<0.0005
2/22/2024	0.00074	<0.0005			<0.0005	
2/23/2024				<0.0005		
8/21/2024			<0.0005			
8/22/2024				0.00014 (J)	<0.0005	<0.0005
8/23/2024	0.00063	<0.0005				
2/26/2025	0.00064	<0.0005		0.00019 (J)	<0.0005	<0.0005
2/27/2025			<0.0005			
Mean	0.001807	0.0003417	0.0004841	0.0004045	0.0003983	0.0004805
Std. Dev.	0.0008835	0.000159	8.275E-05	0.0001643	0.0001551	9.168E-05
Upper Lim.	0.0027	0.0005	0.0005	0.0005	0.0005	0.0005
Lower Lim.	0.00094	0.00018	7E-05	0.00014	0.00021	7E-05

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 7/7/2025 3:02 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-50	YAMW-1	YAMW-2	YAMW-3	YAMW-5	PZ-35
10/16/2018		0.00014 (J)				<0.0005
9/26/2019		<0.0005				<0.0005
3/25/2020		<0.0005				0.00016 (J)
9/23/2020			<0.0005			
9/24/2020		0.00017 (J)			0.00018 (J)	<0.0005
2/9/2021		0.00013 (J)	<0.0005		0.00025 (J)	
2/10/2021						<0.0005
3/3/2021		<0.0005	<0.0005			
3/4/2021					0.00018 (J)	<0.0005
8/26/2021					0.00021 (J)	
9/1/2021		0.00023 (J)	<0.0005			<0.0005
2/10/2022		0.00018 (J)	<0.0005	<0.0005	0.00022 (J)	<0.0005
8/31/2022		0.00015 (J)				0.00011 (J)
9/1/2022			0.00015 (J)	<0.0005	0.00023 (J)	
2/8/2023			<0.0005		0.00046 (J)	
2/9/2023		<0.0005		<0.0005		0.00025 (J)
8/16/2023		0.00021 (J)		0.00048 (J)	0.00022 (J)	0.0002 (J)
8/17/2023	0.018		<0.0005			
12/20/2023	0.012					
2/21/2024				0.00035 (J)		
2/22/2024	0.011		<0.0005		0.00022 (J)	
2/23/2024		0.00023 (J)				0.00027 (J)
6/10/2024	0.013					
8/21/2024			<0.0005			
8/22/2024		0.00018 (J)		0.00025 (J)		0.00021 (J)
8/23/2024	0.01				0.00023 (J)	
11/26/2024	0.015					
2/25/2025						0.00074
2/26/2025	0.011	0.00021 (J)	<0.0005	0.00022 (J)		
2/27/2025					0.00021 (J)	
5/21/2025	0.0079					
Mean	0.01224	0.0002736	0.0004682	0.0004	0.0002373	0.0003886
Std. Dev.	0.003125	0.0001516	0.0001055	0.000125	7.669E-05	0.0001842
Upper Lim.	0.01555	0.0005	0.0005	0.0005	0.00025	0.00074
Lower Lim.	0.008925	0.00015	0.0005	0.00022	0.00018	0.0002

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 7/7/2025 3:02 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AMA-R6

	PZ-37	PZ-51	PZ-52D
10/12/2017	0.0002 (J)		
11/21/2017	0.0002 (J)		
1/11/2018	0.0004 (J)		
2/20/2018	<0.001		
4/3/2018	<0.001		
6/29/2018	0.00099 (J)		
8/6/2018	0.00063 (J)		
9/24/2018	0.00069 (J)		
9/25/2020	0.00039 (J)		
2/9/2021	0.00042 (J)		
3/4/2021	0.00028 (J)		
8/25/2021	0.00094		
11/4/2021			<0.0005
2/10/2022	0.00093	0.0019	
2/11/2022			<0.0005
4/4/2022	0.00089		
4/7/2022	0.00082		
9/1/2022	0.0009	0.0017	<0.0005
2/8/2023	0.00076		<0.0005
2/9/2023		0.0018	
8/16/2023		0.0017	
8/17/2023	0.00085		<0.0005
2/21/2024	0.00086		<0.0005
2/22/2024		0.0017	
8/21/2024	0.00081		<0.0005
8/22/2024		0.0017	
2/27/2025	0.00078	0.0018	0.00025 (J)
Mean	0.0006543	0.001757	0.0004688
Std. Dev.	0.0002586	7.868E-05	8.839E-05
Upper Lim.	0.0007969	0.0019	0.0005
Lower Lim.	0.0005116	0.0017	0.00025

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 7/7/2025 3:02 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38	YGWC-41	YGWC-23S	YGWC-24SB	YGWC-36A	YGWC-42
6/7/2016			<0.005			
6/8/2016				0.0022 (J)		
7/28/2016			0.0008 (J)			
8/1/2016				<0.005		
8/30/2016						<0.005
9/2/2016					<0.005	
9/20/2016			<0.005	<0.005		
11/8/2016			<0.005	<0.005		
11/14/2016					0.0035 (J)	
11/16/2016						<0.005
1/16/2017			<0.005			
1/17/2017				<0.005		
2/27/2017						<0.005
2/28/2017					<0.005	
3/8/2017				0.001 (J)		
3/9/2017			0.0008 (J)			
5/2/2017			0.0007 (J)	0.0011 (J)		
5/9/2017					<0.005	
5/10/2017						0.0006 (J)
7/7/2017				<0.005		
7/10/2017			0.0007 (J)			
7/11/2017						<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	0.0005 (J)	<0.005				<0.005
11/20/2017	<0.005					
11/21/2017		<0.005				
1/11/2018		<0.005				
1/12/2018	<0.005					
2/19/2018		<0.005				
2/20/2018	<0.005					
3/30/2018			<0.005	<0.005	<0.005	
4/3/2018	<0.005	<0.005				
4/4/2018						<0.005
6/27/2018		<0.005				
6/28/2018	<0.005					
8/7/2018	<0.005	<0.005				
9/20/2018						<0.005
9/24/2018	<0.005	<0.005				
3/5/2019				<0.005		
3/6/2019			<0.005		<0.005	
8/22/2019	<0.005	<0.005				<0.005
10/9/2019	<0.005	<0.005				0.00043 (J)
2/13/2020				<0.005		
2/14/2020	0.0023 (J)	<0.005			<0.005	<0.005
2/17/2020			0.00087 (J)			
3/25/2020	0.00065 (J)	0.00039 (J)			0.00074 (J)	0.0013 (J)
3/26/2020			0.0019 (J)	0.00094 (J)		
9/23/2020				<0.005		
9/24/2020			0.0011 (J)			<0.005

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 7/7/2025 3:02 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38	YGWC-41	YGWC-23S	YGWC-24SB	YGWC-36A	YGWC-42
9/25/2020	<0.005	<0.005				
10/7/2020					0.0013 (J)	
2/9/2021	<0.005		0.00086 (J)	0.0011 (J)		
2/10/2021		<0.005			0.00094 (J)	<0.005
3/3/2021				<0.005		
3/4/2021	<0.005	<0.005	0.00078 (J)		<0.005	<0.005
8/25/2021			<0.005			<0.005
8/26/2021	<0.005	<0.005				
9/1/2021				<0.005		
9/3/2021					<0.005	
2/8/2022		<0.005				
2/10/2022	<0.005		<0.005	<0.005		<0.005
2/11/2022					<0.005	
9/1/2022	<0.005	<0.005	<0.005		<0.005	<0.005
2/8/2023	<0.005	<0.005	0.0014 (J)			<0.005
2/9/2023					<0.005	
2/10/2023				<0.005		
8/16/2023	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/21/2024			<0.005			
2/22/2024	<0.005	<0.005				<0.005
2/23/2024				<0.005	<0.005	
8/21/2024			<0.005			
8/22/2024				<0.005	<0.005	<0.005
8/23/2024	<0.005	<0.005				
2/26/2025	<0.005	<0.005			<0.005	<0.005
2/27/2025			<0.005			
3/17/2025				<0.005		
Mean	0.004498	0.0048	0.003257	0.004152	0.004412	0.004449
Std. Dev.	0.00136	0.0009613	0.002047	0.001617	0.001392	0.001461
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.0023	0.00039	0.00086	0.0022	0.0035	0.0013

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 7/7/2025 3:02 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-43	YGWC-49	YGWC-50	YAMW-1	YAMW-2	YAMW-3
8/31/2016	<0.005					
9/1/2016		0.0013 (J)				
11/15/2016		0.0014 (J)				
11/16/2016	<0.005					
2/24/2017	<0.005					
2/27/2017		0.0016 (J)				
5/9/2017		0.0017 (J)				
5/10/2017	0.0005 (J)					
7/11/2017	<0.005					
7/13/2017		0.0019 (J)				
10/11/2017		0.0014 (J)				
10/12/2017	<0.005					
4/4/2018	<0.005	<0.005				
9/20/2018	<0.005	0.0017 (J)				
8/21/2019	0.00062 (J)					
10/9/2019	0.00074 (J)					
2/17/2020	<0.005	0.002 (J)				
3/25/2020	<0.005	0.0019 (J)		0.00058 (J)		
9/23/2020					0.00071 (J)	
9/24/2020		0.0019 (J)		0.00074 (J)		
9/25/2020	0.00071 (J)					
2/9/2021	<0.005	0.002 (J)		0.001 (J)	0.0011 (J)	
3/3/2021				0.00076 (J)	0.0012 (J)	
3/4/2021	<0.005	0.0017 (J)				
9/1/2021		0.002 (J)		<0.005	0.003 (J)	
9/27/2021	<0.005					
2/8/2022	<0.005	0.0021 (J)				
2/10/2022				0.0013 (J)	<0.005	0.0011 (J)
8/31/2022		0.002 (J)		<0.005		
9/1/2022	<0.005				<0.005	<0.005
2/8/2023	<0.005				<0.005	
2/9/2023		0.002 (J)		<0.005		<0.005
8/16/2023	<0.005	0.0017 (J)		<0.005		<0.005
8/17/2023			<0.005		<0.005	
12/20/2023			<0.005			
2/21/2024		0.0021 (J)				<0.005
2/22/2024	<0.005		<0.005		<0.005	
2/23/2024				<0.005		
6/10/2024			<0.005			
8/21/2024					<0.005	
8/22/2024	<0.005	0.002 (J)		<0.005		<0.005
8/23/2024			<0.005			
11/26/2024			0.00041 (J)			
2/26/2025		0.0021 (J)	<0.005	<0.005	<0.005	<0.005
2/27/2025	<0.005					
5/21/2025			<0.005			
Mean	0.004242	0.001857	0.004426	0.003282	0.003728	0.004443
Std. Dev.	0.001689	0.0002839	0.001623	0.00213	0.001851	0.001474
Upper Lim.	0.005	0.002014	0.005	0.005	0.005	0.005
Lower Lim.	0.00074	0.001701	0.00041	0.00074	0.0011	0.0011

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 7/7/2025 3:02 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-4	YAMW-5	PZ-35	PZ-37	PZ-52D
10/12/2017				0.0019 (J)	
11/21/2017				0.0017 (J)	
1/11/2018				0.001 (J)	
2/20/2018				<0.005	
4/3/2018				<0.005	
6/29/2018				<0.005	
8/6/2018				<0.005	
9/24/2018				<0.005	
3/25/2020			0.0012 (J)		
9/23/2020	<0.005				
9/24/2020		<0.005	0.00061 (J)		
9/25/2020				<0.005	
2/9/2021	0.00057 (J)	<0.005		<0.005	
2/10/2021			0.0006 (J)		
3/3/2021	<0.005				
3/4/2021		<0.005	0.0007 (J)	<0.005	
8/25/2021	<0.005			<0.005	
8/26/2021		<0.005			
9/1/2021			<0.005		
11/4/2021					<0.005
2/10/2022	<0.005	0.0016 (J)	<0.005	<0.005	
2/11/2022					0.0011 (J)
4/4/2022				<0.005	
4/7/2022				<0.005	
8/31/2022			<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			0.0016 (J)		
8/16/2023	<0.005	<0.005	<0.005		
8/17/2023				<0.005	<0.005
2/21/2024				<0.005	<0.005
2/22/2024	<0.005	<0.005			
2/23/2024			<0.005		
8/21/2024				<0.005	<0.005
8/22/2024			<0.005		
8/23/2024	<0.005	<0.005			
2/25/2025			0.0015 (J)		
2/26/2025	<0.005				
2/27/2025		<0.005		<0.005	0.0013 (J)
Mean	0.004597	0.004691	0.003017	0.004505	0.00405
Std. Dev.	0.001336	0.001025	0.002093	0.001252	0.00176
Upper Lim.	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.005	0.005	0.00061	0.0019	0.0011

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 7/7/2025 3:02 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-41	YGWC-36A	YGWC-42	YGWC-43	YGWC-49	YGWC-50
8/30/2016			0.0025 (J)			
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			0.002 (J)	<0.005		
2/24/2017				<0.005		
2/27/2017			0.0021 (J)		0.0008 (J)	
2/28/2017		<0.005				
5/9/2017		<0.005			<0.005	
5/10/2017			0.0021 (J)	<0.005		
7/11/2017			0.0014 (J)	<0.005		
7/13/2017		<0.005			0.0005 (J)	
9/22/2017		<0.005				
9/29/2017		<0.005				
10/6/2017		<0.005				
10/11/2017					0.0006 (J)	
10/12/2017	0.0011 (J)		0.0017 (J)	0.0006 (J)		
11/21/2017	0.0003 (J)					
1/11/2018	0.0003 (J)					
2/19/2018	<0.005					
3/30/2018		<0.005				
4/3/2018	<0.005					
4/4/2018			<0.005	<0.005	<0.005	
6/13/2018		<0.005				
6/27/2018	0.00069 (J)					
8/7/2018	<0.005					
9/20/2018			0.003 (J)	0.0034 (J)	<0.005	
9/24/2018	<0.005					
9/26/2018		<0.005				
3/6/2019		<0.005				
4/4/2019		<0.005				
8/21/2019				0.0026 (J)		
8/22/2019	<0.005		0.0019 (J)			
9/26/2019		0.00048 (J)			<0.005	
10/9/2019	<0.005		0.0019 (J)	0.0023 (J)		
2/14/2020	<0.005	0.00041 (J)	0.0019 (J)			
2/17/2020				0.00088 (J)	<0.005	
3/25/2020	<0.005	0.00038 (J)	0.0018 (J)	0.0016 (J)	<0.005	
9/24/2020			0.0017 (J)		<0.005	
9/25/2020	<0.005			0.0018 (J)		
10/7/2020		0.00086 (J)				
2/9/2021				0.0017 (J)	<0.005	
2/10/2021	<0.005	0.00038 (J)	0.0019 (J)			
3/4/2021	<0.005	<0.005	0.0018 (J)	0.0015 (J)	<0.005	
8/25/2021			0.0014 (J)			
8/26/2021	<0.005					
9/1/2021					<0.005	
9/3/2021		<0.005				
9/27/2021				<0.005		
2/8/2022	<0.005			0.00045 (J)	<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 7/7/2025 3:02 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-41	YGWC-36A	YGWC-42	YGWC-43	YGWC-49	YGWC-50
2/10/2022			0.0017 (J)			
2/11/2022		<0.005				
8/31/2022					<0.005	
9/1/2022	<0.005	<0.005	0.0015 (J)	0.0005 (J)		
2/8/2023	<0.005		0.0018 (J)	0.00049 (J)		
2/9/2023		<0.005			<0.005	
8/16/2023	<0.005	<0.005	0.0014 (J)	0.00046 (J)	<0.005	
8/17/2023						0.0086
12/20/2023						0.0052
2/21/2024					<0.005	
2/22/2024	<0.005		0.0023 (J)	0.00038 (J)		0.0063
2/23/2024		<0.005				
6/10/2024						0.0055
8/22/2024		<0.005	0.0017 (J)	0.00057 (J)	<0.005	
8/23/2024	<0.005					0.006
11/26/2024						0.0075
2/26/2025	<0.005	<0.005	0.002 (J)		<0.005	0.0044 (J)
2/27/2025				<0.005		
5/21/2025						<0.005
Mean	0.004234	0.004004	0.001913	0.002575	0.004205	0.00575
Std. Dev.	0.001712	0.0019	0.0003865	0.00196	0.001728	0.001863
Upper Lim.	0.005	0.005	0.002115	0.005	0.005	0.007725
Lower Lim.	0.0011	0.00086	0.001711	0.00057	0.0008	0.003775

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 7/7/2025 3:02 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	PZ-35
10/16/2018	0.032					<0.005
9/26/2019	0.015					<0.005
12/9/2019	0.031					
1/3/2020	<0.005					
3/25/2020	<0.005					0.0059
9/23/2020		0.0025 (J)		0.00052 (J)		
9/24/2020	0.01				0.00077 (J)	<0.005
2/9/2021	0.03	0.001 (J)		0.00063 (J)	<0.005	
2/10/2021						<0.005
3/3/2021	0.018	0.00082 (J)		0.001 (J)		
3/4/2021					<0.005	<0.005
8/25/2021				0.00041 (J)		
8/26/2021					<0.005	
9/1/2021	0.022	0.00093 (J)				<0.005
2/10/2022	0.011	0.00052 (J)	0.16	0.00044 (J)	<0.005	<0.005
8/31/2022	0.0041 (J)					<0.005
9/1/2022		0.0068	0.058	0.00048 (J)	<0.005	
2/8/2023		<0.005		0.00085 (J)	<0.005	
2/9/2023	0.0045 (J)		0.066			<0.005
8/16/2023	0.0027 (J)		0.14	<0.005	<0.005	<0.005
8/17/2023		0.0053				
2/21/2024			0.051			
2/22/2024		0.00044 (J)		<0.005	<0.005	
2/23/2024	0.0044 (J)					<0.005
8/21/2024		0.0023 (J)				
8/22/2024	0.0018 (J)		0.035			<0.005
8/23/2024				<0.005	<0.005	
2/25/2025						<0.005
2/26/2025	0.004 (J)	<0.005	0.028	<0.005		
2/27/2025					<0.005	
Mean	0.01222	0.002783	0.07686	0.002212	0.004615	0.005064
Std. Dev.	0.01109	0.002317	0.05193	0.002217	0.001275	0.0002405
Upper Lim.	0.01512	0.003776	0.1375	0.005	0.005	0.0059
Lower Lim.	0.004036	0.0004137	0.0251	0.00044	0.005	0.005

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 7/7/2025 3:02 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AMA-R6

	PZ-37	PZ-51	PZ-52D
10/12/2017	0.0078 (J)		
11/21/2017	0.0097 (J)		
1/11/2018	0.0131		
2/20/2018	0.016		
4/3/2018	0.015		
6/29/2018	0.013		
8/6/2018	0.0053 (J)		
9/24/2018	0.0071 (J)		
9/25/2020	0.0023 (J)		
2/9/2021	0.0023 (J)		
3/4/2021	0.003 (J)		
8/25/2021	0.0068		
11/4/2021			0.00082 (J)
2/10/2022	0.0036 (J)	0.033	
2/11/2022			0.0011 (J)
4/4/2022	0.0032 (J)		
4/7/2022	0.0017 (J)		
9/1/2022	0.0025 (J)	0.018	0.0016 (J)
2/8/2023	0.0022 (J)		0.0026 (J)
2/9/2023		0.0071	
8/16/2023		0.0056	
8/17/2023	0.0027 (J)		0.0031 (J)
2/21/2024	0.0017 (J)		0.0029 (J)
2/22/2024		0.0051	
8/21/2024	0.0037 (J)		0.0024 (J)
8/22/2024		0.0048 (J)	
2/27/2025	0.0019 (J)	0.0043 (J)	0.0035 (J)
Mean	0.005933	0.01113	0.002253
Std. Dev.	0.004723	0.01077	0.0009741
Upper Lim.	0.007377	0.033	0.003285
Lower Lim.	0.003059	0.0043	0.00122

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/7/2025 3:02 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38	YGWC-41	YGWC-23S	YGWC-24SB	YGWC-36A	YGWC-42
6/7/2016			0.303 (U)			
6/8/2016				1.06		
7/28/2016			0.386			
8/1/2016				0.467		
8/30/2016						2.99
9/2/2016					0.873	
9/20/2016			1.47	0.853		
11/8/2016			0.22	0.433		
11/14/2016					0.0451	
11/16/2016						4.01
1/16/2017			0.147			
1/17/2017				0.0759 (U)		
2/27/2017						2.5
2/28/2017					1.34	
3/8/2017				0.479		
3/9/2017			0.0892			
5/2/2017			0.149	0.506		
5/9/2017					0.309	
5/10/2017						2.55
7/7/2017				0.713 (U)		
7/10/2017			0.815 (U)			
7/11/2017						3.94
7/13/2017					0.618 (U)	
9/22/2017					0.667 (U)	
9/29/2017					1.63	
10/6/2017					0.641 (U)	
10/12/2017	1.24	0.641 (U)				3.57
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					
3/30/2018			0.659	0.409	0.721	
4/3/2018	0.726 (U)	0.911 (U)				
4/4/2018						1.9
6/12/2018			1.03 (U)	0.728 (U)		
6/13/2018					1.04 (U)	
6/27/2018		0.429 (U)				
6/28/2018	1.06 (U)					
8/7/2018	1.21	0.579 (U)				
9/20/2018						1.94
9/24/2018	1.52	1.39				
9/26/2018				0.981	0.604 (U)	
9/27/2018			1.06			
3/5/2019				0.837 (U)		
3/6/2019			0.736 (U)		0.919 (U)	
4/4/2019			0.474 (U)		1.05 (U)	
4/9/2019				0.502 (U)		
8/22/2019	1.97	2.03				1.59
9/26/2019				0.964 (U)	0.979 (U)	
9/27/2019			0.684 (U)			

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/7/2025 3:02 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38	YGWC-41	YGWC-23S	YGWC-24SB	YGWC-36A	YGWC-42
10/9/2019	0.751 (U)	0.609 (U)				0.995
2/13/2020				0.474 (U)		
2/14/2020	1.12 (U)	1.16 (U)			1.06 (U)	1.56
2/17/2020			1.46			
3/25/2020	0.321 (U)	0.568 (U)			1.22 (U)	1.17 (U)
3/26/2020			0.281 (U)	0.511 (U)		
9/23/2020				0.786 (U)		
9/24/2020			0.788 (U)			0.751 (U)
9/25/2020	0.246 (U)	0.769 (U)				
10/7/2020					1.58	
2/9/2021	0.626 (U)		0.464 (U)	0.678 (U)		
2/10/2021		0.548 (U)			0.466 (U)	0.612 (U)
3/3/2021				0.415 (U)		
3/4/2021	0.816 (U)	1.23	0.771 (U)		0.0671 (U)	1.02
8/25/2021			0.624 (U)			0.978 (U)
8/26/2021	0.427 (U)	0.356 (U)				
9/1/2021				0.444 (U)		
9/3/2021					0.622 (U)	
2/8/2022		0.594 (U)				
2/10/2022	0.791 (U)		0.197 (U)	0.846 (U)		0.307 (U)
2/11/2022					0.395 (U)	
9/1/2022	0.52 (U)	0.0906 (U)	1.23 (U)		0.189 (U)	0.596 (U)
2/8/2023	0.361 (U)	0.852 (U)	0.4 (U)			0.817
2/9/2023					0.326 (U)	
2/10/2023				0.137 (U)		
8/16/2023	0.617 (U)	1.23	0.502 (U)	0.889 (U)	0.319 (U)	1.08 (U)
2/21/2024			0.345 (U)			
2/22/2024	0.416 (U)	0.752 (U)				1.05 (U)
2/23/2024				0.311 (U)	0.536 (U)	
8/21/2024			0.285 (U)			
8/22/2024				0.103 (U)	0.936 (U)	0.134 (U)
8/23/2024	0.22 (U)	1.01 (U)				
2/26/2025	0.925 (U)	0.612 (U)			0.507 (U)	0.798 (U)
2/27/2025			0.923 (U)			
3/17/2025				0.327 (U)		
Mean	0.8202	0.9178	0.6108	0.5742	0.7281	1.603
Std. Dev.	0.4688	0.5119	0.3918	0.2755	0.4227	1.141
Upper Lim.	1.065	1.186	0.7977	0.7085	0.9297	2.199
Lower Lim.	0.575	0.65	0.4239	0.4399	0.5265	1.006

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/7/2025 3:02 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-43	YGWC-49	YGWC-50	YAMW-1	YAMW-2	YAMW-3
8/31/2016	0.926					
9/1/2016		1.2				
11/15/2016		0.645				
11/16/2016	0.773					
2/24/2017	0.661					
2/27/2017		0.244				
5/9/2017		0.519				
5/10/2017	1.27					
7/11/2017	1.02					
7/13/2017		0.5 (U)				
10/11/2017		1.41				
10/12/2017	1.58					
4/4/2018	1.71	0.442				
9/20/2018	2.8	1.14 (U)				
10/16/2018				0.384 (U)		
8/21/2019	3.16					
9/26/2019		1.16 (U)				
10/9/2019	3.65					
2/17/2020	4.19	1.52				
3/25/2020	3.04	1.2 (U)		0.525 (U)		
9/23/2020					0.0813 (U)	
9/24/2020		1.57 (U)		0.547 (U)		
9/25/2020	4.75					
2/9/2021	6.38	0.137 (U)		0.866 (U)	0.492 (U)	
3/3/2021				0.377 (U)	0.563 (U)	
3/4/2021	6.02	0.579 (U)				
9/1/2021		0.686 (U)		0.676 (U)	0.761 (U)	
9/27/2021	1.54					
2/8/2022	3.11	0.201 (U)				
2/10/2022				0.233 (U)	0 (U)	0.988 (U)
8/31/2022		0.823 (U)		0.313 (U)		
9/1/2022	4.16				0.959 (U)	0.975 (U)
2/8/2023	3.73				0.0994 (U)	
2/9/2023		0.667 (U)		0.595 (U)		2.19
8/16/2023	4.92	0.982 (U)		0.575 (U)		2.77
8/17/2023			1.09 (U)		0.686 (U)	
12/20/2023			0.477 (U)			
2/21/2024		0.595 (U)				0.973 (U)
2/22/2024	4.56		0.871 (U)		0.463 (U)	
2/23/2024				0.566 (U)		
6/10/2024			0.828 (U)			
8/21/2024					0.465 (U)	
8/22/2024	4.45	0.852		0.386 (U)		1.47
8/23/2024			0.433 (U)			
11/26/2024			0.398 (U)			
2/26/2025		1.19	1.03 (U)	0.645 (U)	0.0371 (U)	1.63
2/27/2025	4.55					
5/21/2025			0.863 (U)			
Mean	3.172	0.8301	0.7488	0.5145	0.4188	1.571
Std. Dev.	1.716	0.4236	0.2742	0.1715	0.3237	0.6937
Upper Lim.	4.069	1.057	1.039	0.642	0.6885	2.395
Lower Lim.	2.274	0.6027	0.4581	0.3869	0.1491	0.7469

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/7/2025 3:02 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-4	YAMW-5	PZ-35	PZ-37D	PZ-37	PZ-51
10/12/2017					1.83	
11/21/2017					1.33	
1/11/2018					1.53	
2/20/2018					2.75	
4/3/2018					1.47	
6/29/2018					1.69	
8/6/2018					1.69	
9/24/2018					2.26	
10/16/2018			0.363 (U)			
3/25/2020			0.197 (U)			
9/23/2020	1.2 (U)					
9/24/2020		0.668 (U)	1.07 (U)			
9/25/2020					1.68 (U)	
2/9/2021	0.659 (U)	1.07 (U)			1.52	
2/10/2021			0.546 (U)			
3/3/2021	1.07					
3/4/2021		1.46	0.397 (U)		1.49	
5/13/2021				5.36		
8/25/2021	0.0991 (U)				1.41	
8/26/2021		0.724 (U)				
9/1/2021			0.696 (U)			
9/3/2021				3.18		
2/10/2022	0.702 (U)	1.25 (U)	1.25 (U)		0.81 (U)	0.964 (U)
2/11/2022				0.815 (U)		
8/31/2022			0.326 (U)			
9/1/2022	0.381 (U)	0.811 (U)		2.54	0.463 (U)	0.389 (U)
2/8/2023	0.239 (U)	0.502 (U)		2.37	0.742 (U)	
2/9/2023			0.718 (U)			0.467 (U)
8/16/2023	0.431 (U)	0.858 (U)	0.643 (U)	2.05		0.924 (U)
8/17/2023					1.9	
2/21/2024				1.78	0.789 (U)	
2/22/2024	0.196 (U)	0.606 (U)				0.894 (U)
2/23/2024			0.824 (U)			
8/21/2024				3.19	0.763 (U)	
8/22/2024			0.858 (U)			0.966
8/23/2024	0.445 (U)	0.826 (U)				
2/25/2025			0.807 (U)			
2/26/2025	0.314 (U)					
2/27/2025		0.644 (U)		2.37	0.883 (U)	0.867 (U)
Mean	0.5215	0.8563	0.6688	2.628	1.421	0.7816
Std. Dev.	0.3541	0.2923	0.3033	1.253	0.5769	0.2451
Upper Lim.	0.8165	1.1	0.8944	3.838	1.759	0.9804
Lower Lim.	0.2264	0.6127	0.4433	1.418	1.083	0.5983

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/7/2025 3:02 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AMA-R6

	PZ-52D
11/4/2021	0.721 (U)
2/11/2022	1.52
9/1/2022	0.225 (U)
2/8/2023	0.218 (U)
8/17/2023	1.88
2/21/2024	0.689 (U)
8/21/2024	0.998 (U)
2/27/2025	0.702 (U)
Mean	0.8691
Std. Dev.	0.5835
Upper Lim.	1.488
Lower Lim.	0.2507

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 7/7/2025 3:02 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38	YGWC-41	YGWC-23S	YGWC-24SB	YGWC-36A	YGWC-42
6/7/2016			<0.1			
6/8/2016				<0.1		
7/28/2016			0.03 (J)			
8/1/2016				<0.1		
8/30/2016						0.02 (J)
9/2/2016					0.05 (J)	
9/20/2016			<0.1	<0.1		
11/8/2016			<0.1	0.02 (J)		
11/14/2016					0.18 (J)	
11/16/2016						0.07 (J)
1/16/2017			<0.1			
1/17/2017				<0.1		
2/27/2017						0.06 (J)
2/28/2017					0.09 (J)	
3/8/2017				0.03 (J)		
3/9/2017			0.03 (J)			
5/2/2017			<0.1	<0.1		
5/9/2017					0.009 (J)	
5/10/2017						<0.1
7/7/2017				<0.1		
7/10/2017			0.04 (J)			
7/11/2017						<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		0.14 (J)	
10/12/2017	<0.1	<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	<0.1	<0.1	
4/3/2018	0.41	<0.1				
4/4/2018						<0.1
6/12/2018			<0.1	<0.1		
6/13/2018					<0.1	
6/27/2018		<0.1				
6/28/2018	0.43					
8/7/2018	<0.1	0.11 (J)				
9/20/2018						0.041 (J)
9/24/2018	0.034 (J)	<0.1				
9/26/2018				<0.1	<0.1	
9/27/2018			<0.1			
3/5/2019				<0.1		
3/6/2019			<0.1		<0.1	
3/27/2019	0.24 (J)					<0.1
3/28/2019		0.1 (J)				
4/4/2019			0.049 (J)	0.033 (J)	0.043 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 7/7/2025 3:02 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38	YGWC-41	YGWC-23S	YGWC-24SB	YGWC-36A	YGWC-42
8/22/2019	<0.1	<0.1				<0.1
9/26/2019				0.098 (J)	0.094 (J)	
9/27/2019			0.12 (J)			
10/9/2019	<0.1	<0.1				<0.1
10/10/2019			0.11 (J)			
2/13/2020				<0.1		
2/14/2020	<0.1	<0.1			<0.1	<0.1
2/17/2020			<0.1			
3/25/2020	<0.1	<0.1			<0.1	<0.1
3/26/2020			<0.1	<0.1		
9/23/2020				<0.1		
9/24/2020			<0.1			<0.1
9/25/2020	<0.1	<0.1				
10/7/2020					<0.1	
2/9/2021	<0.1		<0.1	<0.1		
2/10/2021		<0.1			<0.1	<0.1
3/3/2021				<0.1		
3/4/2021	<0.1	<0.1	<0.1		<0.1	<0.1
8/25/2021			<0.1			<0.1
8/26/2021	<0.1	<0.1				
9/1/2021				<0.1		
9/3/2021					<0.1	
2/8/2022		<0.1				
2/10/2022	<0.1		<0.1	<0.1		<0.1
2/11/2022					<0.1	
9/1/2022	<0.1	<0.1	0.057 (J)		<0.1	0.053 (J)
2/8/2023	<0.1	<0.1	<0.1			0.08 (J)
2/9/2023					<0.1	
2/10/2023				0.051 (J)		
8/16/2023	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2/21/2024			<0.1			
2/22/2024	<0.1	<0.1				<0.1
2/23/2024				<0.1	<0.1	
8/21/2024			<0.1			
8/22/2024				<0.1	<0.1	<0.1
8/23/2024	<0.1	<0.1				
2/26/2025	<0.1	<0.1			<0.1	<0.1
2/27/2025			<0.1			
3/17/2025				<0.1		
Mean	0.1385	0.1004	0.0909	0.09007	0.09629	0.0885
Std. Dev.	0.09679	0.002041	0.02386	0.02444	0.02847	0.02267
Upper Lim.	0.2	0.11	0.1	0.1	0.1	0.1
Lower Lim.	0.1	0.1	0.057	0.098	0.094	0.08

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 7/7/2025 3:02 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-43	YGWC-49	YGWC-50	YAMW-2	YAMW-3	YAMW-4
8/31/2016	0.12 (J)					
9/1/2016		0.09 (J)				
11/15/2016		0.16 (J)				
11/16/2016	0.2 (J)					
2/24/2017	0.21 (J)					
2/27/2017		0.06 (J)				
5/9/2017		0.05 (J)				
5/10/2017	0.04 (J)					
7/11/2017	0.2 (J)					
7/13/2017		<0.1				
10/11/2017		0.14 (J)				
10/12/2017	0.1 (J)					
4/4/2018	<0.1	<0.1				
9/20/2018	<0.1	<0.1				
3/28/2019	0.078 (J)	<0.1				
8/21/2019	0.062 (J)					
9/26/2019		0.09 (J)				
10/9/2019	<0.1					
10/10/2019		0.09 (J)				
2/17/2020	0.15 (J)	<0.1				
3/25/2020	0.073 (J)	<0.1				
9/23/2020				<0.1		<0.1
9/24/2020		<0.1				
9/25/2020	<0.1					
2/9/2021	0.058 (J)	<0.1		<0.1		0.14
3/3/2021				<0.1		0.14
3/4/2021	0.063 (J)	<0.1				
8/25/2021						<0.1
9/1/2021		<0.1		<0.1		
9/27/2021	0.1					
2/8/2022	0.066 (J)	<0.1				
2/10/2022				<0.1	<0.1	<0.1
8/31/2022		<0.1				
9/1/2022	0.091 (J)			0.063 (J)	0.091 (J)	0.078 (J)
2/8/2023	0.11			0.061 (J)		0.079 (J)
2/9/2023		<0.1			0.079 (J)	
8/16/2023	0.062 (J)	<0.1			0.081 (J)	<0.1
8/17/2023			0.12	<0.1		
12/20/2023			0.14			
2/21/2024		<0.1			0.066 (J)	
2/22/2024	0.091 (J)		0.14	0.05 (J)		0.061 (J)
6/10/2024			0.11			
8/21/2024				<0.1		
8/22/2024	0.05 (J)	<0.1			0.075 (J)	
8/23/2024			0.085 (J)			0.071 (J)
11/26/2024			0.15			
2/26/2025		<0.1	0.077 (J)	<0.1	<0.1	<0.1
2/27/2025	<0.1					
5/21/2025			0.07 (J)			
Mean	0.101	0.09917	0.1115	0.08855	0.08457	0.09718
Std. Dev.	0.0465	0.02041	0.03116	0.01987	0.0129	0.0253
Upper Lim.	0.1009	0.14	0.1445	0.1	0.08807	0.09562

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 7/7/2025 3:02 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-43	YGWC-49	YGWC-50	YAMW-2	YAMW-3	YAMW-4
Lower Lim.	0.06141	0.09	0.07847	0.061	0.06873	0.0612

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 7/7/2025 3:02 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-5	PZ-35	PZ-37D	PZ-37	PZ-51	PZ-52D
10/12/2017				<0.1		
11/21/2017				0.26 (J)		
1/11/2018				<0.1		
2/20/2018				0.45		
4/3/2018				0.31		
6/29/2018				<0.1		
8/6/2018				0.23 (J)		
9/24/2018				<0.1		
10/16/2018		<0.1				
9/26/2019		<0.1				
3/25/2020		<0.1				
9/24/2020	<0.1	<0.1				
9/25/2020				<0.1		
2/9/2021	<0.1			<0.1		
2/10/2021		<0.1				
3/4/2021	<0.1	<0.1		<0.1		
5/13/2021			0.12			
8/25/2021				<0.1		
8/26/2021	<0.1					
9/1/2021		<0.1				
9/3/2021			0.15			
11/4/2021						0.1
2/10/2022	<0.1	<0.1		<0.1	0.1	
2/11/2022			0.17			0.1
4/4/2022				<0.1		
4/7/2022				<0.1		
8/31/2022		<0.1				
9/1/2022	0.055 (J)		0.35	<0.1	0.13	0.11
2/8/2023	0.05 (J)		0.2	<0.1		0.07 (J)
2/9/2023		<0.1			0.13	
8/16/2023	<0.1	<0.1	0.23		0.097 (J)	
8/17/2023				<0.1		0.059 (J)
2/21/2024			0.21	<0.1		0.053 (J)
2/22/2024	<0.1				0.14	
2/23/2024		<0.1				
8/21/2024			0.25	<0.1		<0.1
8/22/2024		<0.1			0.17	
8/23/2024	0.05 (J)					
2/25/2025		0.055 (J)				
2/27/2025	0.05 (J)		0.2	0.064 (J)	0.11	0.064 (J)
Mean	0.08227	0.09679	0.2089	0.1388	0.1253	0.07575
Std. Dev.	0.02463	0.01203	0.06623	0.09456	0.0256	0.02385
Upper Lim.	0.1	0.1	0.2728	0.23	0.1557	0.101
Lower Lim.	0.05	0.055	0.1449	0.064	0.09487	0.05047

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 7/7/2025 3:02 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38	YGWC-41	YGWC-23S	YGWC-24SB	YGWC-36A	YGWC-42
6/7/2016			0.00044 (J)			
6/8/2016				<0.001		
7/28/2016			<0.001			
8/1/2016				<0.001		
8/30/2016						<0.001
9/2/2016					0.0017 (J)	
9/20/2016			<0.001	<0.001		
11/8/2016			<0.001	<0.001		
11/14/2016					0.0002 (J)	
11/16/2016						0.0002 (J)
1/16/2017			<0.001			
1/17/2017				<0.001		
2/27/2017						<0.001
2/28/2017					0.0003 (J)	
3/8/2017				<0.001		
3/9/2017			<0.001			
5/2/2017			<0.001	<0.001		
5/9/2017					0.0004 (J)	
5/10/2017						9E-05 (J)
7/7/2017				<0.001		
7/10/2017			<0.001			
7/11/2017						<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	0.0001 (J)	<0.001				<0.001
11/20/2017	0.0001 (J)					
11/21/2017		<0.001				
1/11/2018		7E-05 (J)				
1/12/2018	0.0001 (J)					
2/19/2018		<0.001				
2/20/2018	<0.001					
3/30/2018			<0.001	<0.001	<0.001	
4/3/2018	<0.001	<0.001				
4/4/2018						<0.001
6/27/2018		0.0011 (J)				
6/28/2018	<0.001					
8/7/2018	<0.001	<0.001				
9/20/2018						<0.001
9/24/2018	<0.001	<0.001				
3/5/2019				<0.001		
3/6/2019			<0.001		<0.001	
4/4/2019			<0.001	<0.001	0.00037 (J)	
8/22/2019	<0.001	6.7E-05 (J)				<0.001
9/26/2019				<0.001	0.00023 (J)	
9/27/2019			0.00013 (J)			
10/9/2019	<0.001	0.00012 (J)				<0.001
2/13/2020				<0.001		
2/14/2020	<0.001	<0.001			0.00016 (J)	<0.001
2/17/2020			<0.001			
3/25/2020	<0.001	<0.001			0.0001 (J)	4.7E-05 (J)

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 7/7/2025 3:02 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38	YGWC-41	YGWC-23S	YGWC-24SB	YGWC-36A	YGWC-42
3/26/2020			<0.001	5.3E-05 (J)		
9/23/2020				<0.001		
9/24/2020			4.6E-05			<0.001
9/25/2020	<0.001	<0.001				
10/7/2020					0.00077 (J)	
2/9/2021	<0.001		<0.001	0.00036 (J)		
2/10/2021		0.0002 (J)			0.00051 (J)	5.4E-05
3/3/2021				<0.001		
3/4/2021	<0.001	<0.001	0.00021 (J)		0.00025 (J)	<0.001
8/25/2021			<0.001			<0.001
8/26/2021	<0.001	<0.001				
9/1/2021				<0.001		
9/3/2021					<0.001	
2/8/2022		<0.001				
2/10/2022	<0.001		<0.001	<0.001		<0.001
2/11/2022					<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	
2/10/2023				<0.001		
8/16/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/21/2024			<0.001			
2/22/2024	<0.001	<0.001				<0.001
2/23/2024				0.00029 (J)	<0.001	
8/21/2024			<0.001			
8/22/2024				<0.001	<0.001	<0.001
8/23/2024	<0.001	<0.001				
2/26/2025	<0.001	<0.001			<0.001	<0.001
2/27/2025			<0.001			
3/17/2025				<0.001		
Mean	0.0008826	0.0008503	0.000873	0.0009043	0.0006436	0.0008431
Std. Dev.	0.0003099	0.0003467	0.0003029	0.000263	0.0004231	0.0003506
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001
Lower Lim.	0.0001	0.0002	0.00044	0.00036	0.00025	0.0002

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 7/7/2025 3:02 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-43	YGWC-49	YGWC-50	YAMW-1	YAMW-2	YAMW-4
8/31/2016	<0.001					
9/1/2016		<0.001				
11/15/2016		<0.001				
11/16/2016	<0.001					
2/24/2017	<0.001					
2/27/2017		<0.001				
5/9/2017		<0.001				
5/10/2017	8E-05 (J)					
7/11/2017	<0.001					
7/13/2017		<0.001				
10/11/2017		<0.001				
10/12/2017	<0.001					
4/4/2018	<0.001	<0.001				
9/20/2018	<0.001	<0.001				
8/21/2019	<0.001					
9/26/2019		<0.001		<0.001		
10/9/2019	<0.001					
2/17/2020	<0.001	7.1E-05 (J)				
3/25/2020	7.5E-05 (J)	5.9E-05 (J)		<0.001		
9/23/2020					<0.001	0.00028 (J)
9/24/2020		<0.001		<0.001		
9/25/2020	<0.001					
2/9/2021	<0.001	<0.001		0.00019 (J)	0.00011 (J)	0.00054 (J)
3/3/2021				<0.001	8E-05 (J)	9.6E-05 (J)
3/4/2021	<0.001	<0.001				
8/25/2021						<0.001
9/1/2021		<0.001		<0.001	<0.001	
9/27/2021	<0.001					
2/8/2022	<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
2/8/2023	<0.001				<0.001	<0.001
2/9/2023		<0.001		<0.001		
8/16/2023	<0.001	<0.001		<0.001		<0.001
8/17/2023			0.0002 (J)		<0.001	
12/20/2023			0.0003 (J)			
2/21/2024		<0.001				
2/22/2024	<0.001		0.00021 (J)		<0.001	<0.001
2/23/2024				<0.001		
6/10/2024			0.00042 (J)			
8/21/2024					<0.001	
8/22/2024	<0.001	<0.001		<0.001		
8/23/2024			0.00023 (J)			<0.001
11/26/2024			0.00033 (J)			
2/26/2025		<0.001	<0.001	<0.001	<0.001	<0.001
2/27/2025	<0.001					
5/21/2025			<0.001			
Mean	0.0009198	0.000915	0.0004613	0.0009377	0.0008355	0.0008105
Std. Dev.	0.0002658	0.0002751	0.0003402	0.0002247	0.0003662	0.0003395
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001
Lower Lim.	8E-05	7.1E-05	0.0002	0.00019	0.00011	0.00028

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 7/7/2025 3:02 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-5	PZ-35	PZ-37D	PZ-37	PZ-51	PZ-52D
10/12/2017				0.0002 (J)		
11/21/2017				0.0002 (J)		
1/11/2018				0.0001 (J)		
2/20/2018				<0.001		
4/3/2018				<0.001		
6/29/2018				<0.001		
8/6/2018				<0.001		
9/24/2018				<0.001		
9/26/2019		<0.001				
3/25/2020		<0.001				
9/24/2020	0.00011 (J)	<0.001				
9/25/2020				8.5E-05 (J)		
2/9/2021	7.3E-05 (J)			8.8E-05 (J)		
2/10/2021		8.7E-05 (J)				
3/4/2021	4.1E-05 (J)	0.00015 (J)		<0.001		
5/13/2021			4.9E-05 (J)			
8/25/2021				<0.001		
8/26/2021	<0.001					
9/1/2021		<0.001				
9/3/2021			<0.001			
11/4/2021						0.001
2/10/2022	<0.001	<0.001		<0.001	<0.001	
2/11/2022			<0.001			0.0031
4/4/2022				<0.001		
4/7/2022				<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
2/9/2023		<0.001			<0.001	
8/16/2023	<0.001	<0.001	<0.001		<0.001	
8/17/2023				<0.001		0.0014
2/21/2024			<0.001	<0.001		<0.001
2/22/2024	<0.001				<0.001	
2/23/2024		<0.001				
8/21/2024			<0.001	0.0002 (J)		<0.001
8/22/2024		0.0014			0.00019 (J)	
8/23/2024	<0.001					
2/25/2025		0.00039 (J)				
2/27/2025	<0.001		<0.001	<0.001	<0.001	0.001
Mean	0.0007476	0.0008482	0.0008943	0.0007559	0.0008843	0.001313
Std. Dev.	0.0004325	0.0003861	0.000317	0.0003967	0.0003062	0.0007357
Upper Lim.	0.001	0.0014	0.001	0.001	0.001	0.0031
Lower Lim.	7.3E-05	0.00015	4.9E-05	0.0002	0.00019	0.001

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 7/7/2025 3:02 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38	YGWC-41	YGWC-23S	YGWC-24SB	YGWC-36A	YGWC-42
6/7/2016			<0.005			
6/8/2016				<0.03		
7/28/2016			0.0019 (J)			
8/1/2016				<0.03		
8/30/2016						0.0257 (J)
9/2/2016					0.0029 (J)	
9/20/2016			0.0021 (J)	<0.03		
11/8/2016			0.0024 (J)	<0.03		
11/14/2016					0.0044 (J)	
11/16/2016						0.0221 (J)
1/16/2017			0.0022 (J)			
1/17/2017				<0.03		
2/27/2017						0.0208 (J)
2/28/2017					0.0038 (J)	
3/8/2017				<0.03		
3/9/2017			0.0025 (J)			
5/2/2017			0.0019 (J)	<0.03		
5/9/2017					0.0057 (J)	
5/10/2017						0.0316 (J)
7/7/2017				<0.03		
7/10/2017			0.0018 (J)			
7/11/2017						0.0281 (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)	
10/12/2017	0.0095 (J)	0.004 (J)				0.0331 (J)
11/20/2017	0.0083 (J)					
11/21/2017		0.0043 (J)				
1/11/2018		0.0044 (J)				
1/12/2018	0.0089 (J)					
2/19/2018		<0.05				
2/20/2018	0.0082 (J)					
3/30/2018			0.0039 (J)	<0.03	0.0061 (J)	
4/3/2018	0.0097 (J)	0.0047 (J)				
4/4/2018						0.037 (J)
6/12/2018			0.0017 (J)	<0.03		
6/13/2018					0.0065 (J)	
6/27/2018		0.0042 (J)				
6/28/2018	0.0093 (J)					
8/7/2018	0.0092 (J)	0.0038 (J)				
9/20/2018						0.049 (J)
9/24/2018	0.0083 (J)	0.0037 (J)				
9/26/2018				<0.03	0.0063 (J)	
9/27/2018			0.0017 (J)			
3/5/2019				<0.03		
3/6/2019			0.0025 (J)		0.0057 (J)	
4/4/2019			0.0018 (J)	<0.03	0.0058 (J)	
8/22/2019	0.0082 (J)	0.0035 (J)				0.047
9/26/2019				<0.03	0.0041 (J)	
9/27/2019			0.0017 (J)			
10/9/2019	0.0081 (J)	0.0032 (J)				0.037

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 7/7/2025 3:02 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38	YGWC-41	YGWC-23S	YGWC-24SB	YGWC-36A	YGWC-42
2/13/2020				<0.03		
2/14/2020	0.0076 (J)	0.0029 (J)			0.0024 (J)	0.038
2/17/2020			0.0021 (J)			
3/25/2020	0.0081 (J)	0.0029 (J)			0.0032 (J)	0.045
3/26/2020			0.0021 (J)	<0.03		
9/23/2020				<0.03		
9/24/2020			0.0035 (J)			0.05
9/25/2020	0.0069 (J)	0.0025 (J)				
10/7/2020					0.0014 (J)	
2/9/2021	0.0067 (J)		0.0026 (J)	<0.03		
2/10/2021		0.0021 (J)			0.0011 (J)	0.058
3/3/2021				<0.03		
3/4/2021	0.0067 (J)	0.0021 (J)	0.0026 (J)		<0.03	0.059
8/25/2021			0.0026 (J)			0.053
8/26/2021	0.007 (J)	0.0021 (J)				
9/1/2021				<0.03		
9/3/2021					0.00086 (J)	
2/8/2022		0.0023 (J)				
2/10/2022	0.0068 (J)		0.0029 (J)	<0.03		0.052
2/11/2022					0.00093 (J)	
9/1/2022	0.006 (J)	0.0019 (J)	0.0025 (J)		0.00089 (J)	0.054
2/8/2023	0.0058 (J)	0.0021 (J)	0.0028 (J)			0.046
2/9/2023					0.001 (J)	
2/10/2023				<0.03		
8/16/2023	0.0058 (J)	0.0021 (J)	0.0024 (J)	<0.03	0.0014 (J)	0.054
2/21/2024			0.0024 (J)			
2/22/2024	0.0058 (J)	0.0026 (J)				0.049
2/23/2024				<0.03	0.0017 (J)	
8/21/2024			0.0023 (J)			
8/22/2024				<0.03	0.002 (J)	0.051
8/23/2024	0.0052 (J)	0.002 (J)				
2/26/2025	0.00621 (J)	0.00235 (J)			0.00237 (J)	0.0556
2/27/2025			0.00324 (J)			
3/17/2025				0.000839 (J)		
Mean	0.007492	0.003946	0.002394	0.02888	0.002605	0.05262
Std. Dev.	0.001351	0.004678	0.0005458	0.005719	0.00414	0.003766
Upper Lim.	0.008198	0.004	0.002654	0.03	0.00237	0.05626
Lower Lim.	0.006785	0.0021	0.002134	0.000839	0.00089	0.04899

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 7/7/2025 3:02 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-43	YGWC-49	YGWC-50	YAMW-1	YAMW-3	YAMW-4
8/31/2016	0.006 (J)					
9/1/2016		0.0034 (J)				
11/15/2016		0.0044 (J)				
11/16/2016	0.0095 (J)					
2/24/2017	0.0104 (J)					
2/27/2017		0.0036 (J)				
5/9/2017		0.0038 (J)				
5/10/2017	0.0123 (J)					
7/11/2017	0.0131 (J)					
7/13/2017		0.0036 (J)				
10/11/2017		0.0036 (J)				
10/12/2017	0.013 (J)					
4/4/2018	0.016 (J)	0.0039 (J)				
9/20/2018	0.019 (J)	0.0036 (J)				
10/16/2018				0.0052 (J)		
8/21/2019	0.015 (J)					
9/26/2019		0.0036 (J)		<0.03		
10/9/2019	0.018 (J)					
2/17/2020	0.015 (J)	0.0032 (J)				
3/25/2020	0.016 (J)	0.0037 (J)		0.0011 (J)		
9/23/2020						0.03 (J)
9/24/2020		0.0037 (J)		0.011 (J)		
9/25/2020	0.018 (J)					
2/9/2021	0.024 (J)	0.0038 (J)		0.021 (J)		0.018 (J)
3/3/2021				0.022 (J)		0.02 (J)
3/4/2021	0.025 (J)	0.0035 (J)				
8/25/2021						0.033
9/1/2021		0.0036 (J)		0.013 (J)		
9/27/2021	0.0092 (J)					
11/17/2021					0.046 (OX)	
12/9/2021					0.042	
2/8/2022	0.016 (J)	0.0036 (J)				
2/10/2022				0.014 (J)	0.054	0.036
8/31/2022		0.0031 (J)		0.021 (J)		
9/1/2022	0.014 (J)				0.041	0.032
2/8/2023	0.015 (J)					0.033
2/9/2023		0.0033 (J)		0.019 (J)	0.048	
8/16/2023	0.015 (J)	0.003 (J)		0.016 (J)	0.04	0.033
8/17/2023			0.0033 (J)			
12/20/2023			0.0035 (J)			
2/21/2024		0.0029 (J)			0.047	
2/22/2024	0.015 (J)		0.0036 (J)			0.036
2/23/2024				0.017 (J)		
6/10/2024			0.0033 (J)			
8/22/2024	0.015 (J)	0.0029 (J)		0.016 (J)	0.048	
8/23/2024			0.0031 (J)			0.035
11/26/2024			0.0032 (J)			
2/26/2025		0.0033 (J)	0.00277 (J)	0.0285 (J)	0.0573	0.0404
2/27/2025	0.0189 (J)					
5/21/2025			0.00292 (J)			
Mean	0.01515	0.003505	0.003211	0.0157	0.04716	0.03149
Std. Dev.	0.004341	0.0003525	0.0002783	0.006954	0.006175	0.006751

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 7/7/2025 3:02 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-43	YGWC-49	YGWC-50	YAMW-1	YAMW-3	YAMW-4
Upper Lim.	0.01742	0.003694	0.003506	0.02063	0.05371	0.03677
Lower Lim.	0.01288	0.003315	0.002916	0.01077	0.04062	0.02672

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 7/7/2025 3:02 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-5	PZ-35	PZ-37D	PZ-37	PZ-51	PZ-52D
10/12/2017				0.0271 (J)		
11/21/2017				0.0255 (J)		
1/11/2018				0.0271 (J)		
2/20/2018				<0.25		
4/3/2018				0.027 (J)		
6/29/2018				0.032 (J)		
8/6/2018				0.033 (J)		
9/24/2018				0.028 (J)		
10/16/2018		0.0011 (J)				
9/26/2019		<0.03				
3/25/2020		0.011 (J)				
9/24/2020	0.013 (J)	0.001 (J)				
9/25/2020				0.028 (J)		
2/9/2021	0.016 (J)			0.024 (J)		
2/10/2021		0.0012 (J)				
3/4/2021	0.016 (J)	0.0015 (J)		0.028 (J)		
5/13/2021			0.011 (J)			
8/25/2021				0.023 (J)		
8/26/2021	0.015 (J)					
9/1/2021		0.0019 (J)				
9/3/2021			0.013 (J)			
11/4/2021						0.016 (J)
11/17/2021					0.0049 (J)	
2/10/2022	0.015 (J)	0.0021 (J)		0.017 (J)	0.006 (J)	
2/11/2022			0.0087 (J)			0.015 (J)
4/4/2022				0.013 (J)		
4/7/2022				0.015 (J)		
8/31/2022		0.0025 (J)				
9/1/2022	0.013 (J)		0.0044 (J)	0.016 (J)	0.0051 (J)	0.023 (J)
2/8/2023	0.014 (J)		0.0088 (J)	0.013 (J)		0.025 (J)
2/9/2023		0.0026 (J)			0.0045 (J)	
8/16/2023	0.014 (J)	0.0026 (J)	0.0095 (J)		0.0048 (J)	
8/17/2023				0.016 (J)		0.029 (J)
2/21/2024			0.009 (J)	0.015 (J)		0.027 (J)
2/22/2024	0.014 (J)				0.005 (J)	
2/23/2024		0.0032 (J)				
8/21/2024			0.0068 (J)	0.017 (J)		0.029 (J)
8/22/2024		0.0028 (J)			0.0053 (J)	
8/23/2024	0.014 (J)					
2/25/2025		0.00438 (J)				
2/27/2025	0.0168 (J)		0.0102 (J)	0.0172 (J)	0.00602 (J)	0.0331
Mean	0.01462	0.003777	0.009044	0.027	0.005203	0.02464
Std. Dev.	0.00125	0.004088	0.002444	0.02336	0.0005493	0.006387
Upper Lim.	0.01566	0.004654	0.0114	0.028	0.005785	0.03141
Lower Lim.	0.01358	0.001514	0.006684	0.016	0.00462	0.01787

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 7/7/2025 3:02 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38	YGWC-41	YGWC-23S	YGWC-24SB	YGWC-42	YGWC-43
6/7/2016			9.8E-05 (J)			
6/8/2016				<0.0002		
7/28/2016			<0.0002			
8/1/2016				<0.0002		
8/30/2016					<0.0002	
8/31/2016						<0.0002
9/20/2016			<0.0002	<0.0002		
11/8/2016			<0.0002	<0.0002		
11/16/2016					<0.0002	<0.0002
1/16/2017			<0.0002			
1/17/2017				<0.0002		
2/24/2017						<0.0002
2/27/2017					<0.0002	
3/8/2017				0.00014 (J)		
3/9/2017			0.00014 (J)			
5/2/2017			<0.0002	<0.0002		
5/10/2017					<0.0002	<0.0002
7/7/2017				<0.0002		
7/10/2017			<0.0002			
7/11/2017					<0.0002	<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	<0.0002		
4/3/2018	<0.0002	<0.0002				
4/4/2018					<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)
9/24/2018	<0.0002	<0.0002				
9/26/2018				<0.0002		
9/27/2018			<0.0002			
3/5/2019				<0.0002		
3/6/2019			<0.0002			
8/21/2019						<0.0002
8/22/2019	<0.0002	<0.0002			<0.0002	
2/13/2020				<0.0002		
2/14/2020	<0.0002	<0.0002			<0.0002	
2/17/2020			<0.0002			<0.0002
2/9/2021	<0.0002		0.00015 (J)	<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		<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

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 7/7/2025 3:02 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38	YGWC-41	YGWC-23S	YGWC-24SB	YGWC-42	YGWC-43
2/8/2022		<0.0002				<0.0002
2/10/2022	<0.0002		<0.0002	<0.0002	<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
2/10/2023				<0.0002		
8/16/2023	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/21/2024			<0.0002			
2/22/2024	<0.0002	<0.0002			<0.0002	<0.0002
2/23/2024				<0.0002		
8/21/2024			<0.0002			
8/22/2024				<0.0002	<0.0002	<0.0002
8/23/2024	<0.0002	<0.0002				
2/26/2025	<0.0002	<0.0002			<0.0002	
2/27/2025			<0.0002			<0.0002
3/17/2025				<0.0002		
Mean	0.0001858	0.000193	0.0001904	0.0001971	0.0001924	0.0001871
Std. Dev.	4.411E-05	3.13E-05	2.624E-05	1.309E-05	3.399E-05	4.018E-05
Upper Lim.	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Lower Lim.	8E-05	6E-05	0.00015	0.00014	4.8E-05	9E-05

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 7/7/2025 3:02 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-49	YAMW-1	YAMW-3	PZ-37
9/1/2016	<0.0002			
11/15/2016	<0.0002			
2/27/2017	<0.0002			
5/9/2017	<0.0002			
7/13/2017	<0.0002			
10/11/2017	<0.0002			
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
4/4/2018	<0.0002			
6/29/2018				<0.0002
8/6/2018				<0.0002
9/20/2018	6.1E-05 (J)			
9/24/2018				<0.0002
2/17/2020	<0.0002			
9/24/2020		<0.0002		
9/25/2020				<0.0002
2/9/2021	0.00014 (J)	<0.0002		<0.0002
3/3/2021		<0.0002		
3/4/2021	<0.0002			<0.0002
8/25/2021				<0.0002
9/1/2021	<0.0002	<0.0002		
2/8/2022	<0.0002			
2/10/2022		<0.0002	<0.0002	<0.0002
4/4/2022				<0.0002
4/7/2022				<0.0002
8/31/2022	<0.0002	<0.0002		
9/1/2022			0.00016 (J)	0.00019 (J)
2/8/2023				<0.0002
2/9/2023	<0.0002	<0.0002	<0.0002	
8/16/2023	<0.0002	<0.0002	<0.0002	
8/17/2023				<0.0002
2/21/2024	<0.0002		<0.0002	<0.0002
2/23/2024		<0.0002		
8/21/2024				<0.0002
8/22/2024	<0.0002	0.00014 (J)	<0.0002	
2/26/2025	<0.0002	<0.0002	<0.0002	
2/27/2025				<0.0002
Mean	0.0001895	0.0001945	0.0001943	0.0001929
Std. Dev.	3.402E-05	1.809E-05	1.512E-05	3.052E-05
Upper Lim.	0.0002	0.0002	0.0002	0.0002
Lower Lim.	0.00014	0.0002	0.00016	0.00019

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 7/7/2025 3:02 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-41	YGWC-23S	YGWC-36A	YGWC-42	YGWC-43	YGWC-49
6/7/2016		<0.01				
7/28/2016		<0.01				
8/30/2016				0.0019 (J)		
8/31/2016					0.0022 (J)	
9/1/2016						<0.01
9/2/2016			0.0027 (J)			
9/20/2016		<0.01				
11/8/2016		<0.01				
11/14/2016			0.0071 (J)			
11/15/2016						<0.01
11/16/2016				0.0027 (J)	<0.01	
1/16/2017		<0.01				
2/24/2017					<0.01	
2/27/2017				0.0031 (J)		0.0007 (J)
2/28/2017			0.0038 (J)			
3/9/2017		<0.01				
5/2/2017		<0.01				
5/9/2017			0.0025 (J)			<0.01
5/10/2017				0.0017 (J)	<0.01	
7/10/2017		<0.01				
7/11/2017				0.0014 (J)	<0.01	
7/13/2017			0.0014 (J)			<0.01
9/22/2017			<0.01			
9/29/2017			<0.01			
10/6/2017			<0.01			
10/11/2017						<0.01
10/12/2017	<0.01			<0.01	<0.01	
11/21/2017	<0.01					
1/11/2018	<0.01					
2/19/2018	<0.01					
3/30/2018		<0.01	<0.01			
4/3/2018	<0.01					
4/4/2018				<0.01	<0.01	<0.01
6/27/2018	<0.01					
8/7/2018	<0.01					
9/20/2018				<0.01	<0.01	<0.01
9/24/2018	<0.01					
3/6/2019		<0.01	<0.01			
8/21/2019					0.0012 (J)	
8/22/2019	<0.01			<0.01		
10/9/2019	<0.01			<0.01	0.0012 (J)	
2/14/2020	<0.01		<0.01	<0.01		
2/17/2020		<0.01			<0.01	<0.01
3/25/2020	<0.01		<0.01	<0.01	0.0015 (J)	<0.01
3/26/2020		<0.01				
9/24/2020		<0.01		0.00091 (J)		<0.01
9/25/2020	<0.01				0.0011 (J)	
10/7/2020			0.0015 (J)			
2/9/2021		<0.01			0.0012 (J)	<0.01
2/10/2021	<0.01		<0.01	0.00094 (J)		
3/4/2021	<0.01	<0.01	<0.01	0.00085 (J)	0.0011 (J)	<0.01
8/25/2021		<0.01		0.00078 (J)		

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 7/7/2025 3:02 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-41	YGWC-23S	YGWC-36A	YGWC-42	YGWC-43	YGWC-49
8/26/2021	<0.01					
9/1/2021						<0.01
9/3/2021			<0.01			
9/27/2021					0.0062 (J)	
2/8/2022	<0.01				0.002 (J)	<0.01
2/10/2022		<0.01		0.0008 (J)		
2/11/2022			<0.01			
8/31/2022						<0.01
9/1/2022	<0.01	<0.01	<0.01	0.00079 (J)	0.0014 (J)	
2/8/2023	<0.01	<0.01		0.00081 (J)	0.0016 (J)	
2/9/2023			<0.01			<0.01
8/16/2023	<0.01	<0.01	<0.01	0.00096 (J)	0.0019 (J)	<0.01
2/21/2024		<0.01				<0.01
2/22/2024	<0.01			0.00075 (J)	0.0016 (J)	
2/23/2024			<0.01			
8/21/2024		0.0016 (J)				
8/22/2024			<0.01	0.00071 (J)	0.0013 (J)	<0.01
8/23/2024	0.0019 (J)					
2/26/2025	<0.01		<0.01	<0.01		<0.01
2/27/2025		<0.01			<0.01	
Mean	0.009648	0.009635	0.008217	0.004309	0.005022	0.009557
Std. Dev.	0.001689	0.001752	0.00323	0.004292	0.004203	0.002029
Upper Lim.	0.01	0.01	0.01	0.01	0.01	0.01
Lower Lim.	0.0019	0.0016	0.0071	0.00081	0.0013	0.0007

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 7/7/2025 3:02 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	PZ-35	PZ-37D
3/25/2020	<0.01				0.0019 (J)	
9/23/2020		<0.01		0.0068 (J)		
9/24/2020	0.0022 (J)				<0.01	
2/9/2021	0.0038 (J)	<0.01		0.0068 (J)		
2/10/2021					<0.01	
3/3/2021	0.0037 (J)	<0.01		0.0049 (J)		
3/4/2021					<0.01	
5/13/2021						0.0042 (J)
8/25/2021				0.0081 (J)		
9/1/2021	0.0014 (J)	<0.01			<0.01	
9/3/2021						0.0018 (J)
2/10/2022	0.00089 (J)	<0.01	0.0036 (J)	0.0076 (J)	<0.01	
2/11/2022						0.0037 (J)
8/31/2022	<0.01				<0.01	
9/1/2022		<0.01	0.0057 (J)	0.0074 (J)		0.0059 (J)
2/8/2023		<0.01		0.0076 (J)		0.0024 (J)
2/9/2023	<0.01		0.0067 (J)		<0.01	
8/16/2023	<0.01		0.0084 (J)	0.0074 (J)	<0.01	0.004 (J)
8/17/2023		<0.01				
2/21/2024			0.0041 (J)			0.004 (J)
2/22/2024		<0.01		0.0071 (J)		
2/23/2024	<0.01				<0.01	
8/21/2024		0.0017 (J)				0.008 (J)
8/22/2024	<0.01		0.0047 (J)		<0.01	
8/23/2024				0.0074 (J)		
2/25/2025					<0.01	
2/26/2025	<0.01	<0.01	0.0046 (J)	0.0075 (J)		
2/27/2025						0.0043 (J)
Mean	0.006832	0.009245	0.0054	0.007145	0.009325	0.004256
Std. Dev.	0.003995	0.002503	0.001675	0.0008323	0.002338	0.001825
Upper Lim.	0.01	0.01	0.00739	0.007749	0.01	0.006017
Lower Lim.	0.0014	0.01	0.00341	0.006615	0.0019	0.002494

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 7/7/2025 3:02 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AMA-R6

	PZ-37	PZ-52D
10/12/2017	0.0022 (J)	
11/21/2017	0.0016 (J)	
1/11/2018	0.0015 (J)	
2/20/2018	<0.01	
4/3/2018	<0.01	
6/29/2018	0.0021 (J)	
8/6/2018	<0.01	
9/24/2018	<0.01	
9/25/2020	0.0016 (J)	
2/9/2021	0.0016 (J)	
3/4/2021	0.0024 (J)	
8/25/2021	0.0011 (J)	
11/4/2021		0.012
2/10/2022	<0.01	
2/11/2022		0.011
4/4/2022	<0.01	
4/7/2022	<0.01	
9/1/2022	<0.01	0.0084 (J)
2/8/2023	<0.01	0.005 (J)
8/17/2023	<0.01	0.003 (J)
2/21/2024	<0.01	0.0025 (J)
8/21/2024	<0.01	0.0021 (J)
2/27/2025	<0.01	0.0079 (J)
Mean	0.006862	0.006488
Std. Dev.	0.004107	0.00389
Upper Lim.	0.01	0.01061
Lower Lim.	0.0021	0.002364

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 7/7/2025 3:02 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38	YGWC-41	YGWC-23S	YGWC-36A	YGWC-42	YGWC-49
6/7/2016			0.037			
7/28/2016			0.0385			
8/30/2016					0.0711	
9/1/2016						0.0086 (J)
9/2/2016				0.0012 (J)		
9/20/2016			0.0464			
11/8/2016			0.0521			
11/14/2016				<0.005		
11/15/2016						0.0056 (J)
11/16/2016					0.0313	
1/16/2017			0.0469			
2/27/2017					0.0316	0.0098 (J)
2/28/2017				0.0017 (J)		
3/9/2017			0.0437			
5/2/2017			0.0395			
5/9/2017				0.0018 (J)		0.0076 (J)
5/10/2017					0.053	
7/10/2017			0.0386			
7/11/2017					0.0697	
7/13/2017				0.0031 (J)		0.0093 (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	0.265	0.0191			0.0594	
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	0.25					
3/30/2018			0.028	<0.005		
4/3/2018	0.23	0.067				
4/4/2018					0.055	<0.005
6/12/2018			0.026			
6/13/2018				0.0024 (J)		
6/27/2018		0.066				
6/28/2018	0.23					
8/7/2018	0.2	0.061				
9/20/2018					0.041	0.0081 (J)
9/24/2018	0.2	0.061				
9/26/2018				0.0037 (J)		
9/27/2018			0.023			
3/6/2019			0.019	0.0033 (J)		
4/4/2019			0.017	0.0029 (J)		
8/22/2019	0.14	0.058			0.047	
9/26/2019				0.0019 (J)		0.0077 (J)
9/27/2019			0.018			
10/9/2019	0.12	0.052			0.042	
2/14/2020	0.11	0.059		0.002 (J)	0.04	
2/17/2020			0.02			0.0068 (J)
3/25/2020	0.099	0.057		0.0024 (J)	0.046	0.0085 (J)

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 7/7/2025 3:02 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-38	YGWC-41	YGWC-23S	YGWC-36A	YGWC-42	YGWC-49
3/26/2020			0.024			
9/24/2020			0.031		0.046	0.0091 (J)
9/25/2020	0.076	0.046				
10/7/2020				<0.005		
2/9/2021	0.073		0.032			0.0079 (J)
2/10/2021		0.033		<0.005	0.043	
3/4/2021	0.076	0.037	0.037	<0.005	0.048	0.0058
8/25/2021			0.032		0.043	
8/26/2021	0.06	0.027				
9/1/2021						0.0066
9/3/2021				<0.005		
2/8/2022		0.031				0.0075
2/10/2022	0.064		0.039		0.044	
2/11/2022				<0.005		
8/31/2022						0.0062
9/1/2022	0.055	0.027	0.036	<0.005	0.035	
2/8/2023	0.056	0.027	0.035		0.041	
2/9/2023				0.0027 (J)		0.0054
8/16/2023	0.053	0.023	0.03	0.0032 (J)	0.019	0.0062
2/21/2024			0.031			0.0055
2/22/2024	0.048	0.021			0.037	
2/23/2024				0.005 (J)		
8/21/2024			0.03			
8/22/2024				0.0054	0.038	0.0056
8/23/2024	0.045	0.021				
2/26/2025	0.045	0.023		0.0054	0.036	0.0059
2/27/2025			0.044			
Mean	0.05578	0.04456	0.03314	0.003611	0.04422	0.00705
Std. Dev.	0.009972	0.01904	0.009378	0.001425	0.01182	0.00172
Upper Lim.	0.06541	0.061	0.03761	0.005	0.05041	0.007973
Lower Lim.	0.04615	0.027	0.02866	0.0024	0.03804	0.006127

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 7/7/2025 3:02 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-50	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5
10/16/2018		0.0019 (J)				
9/26/2019		<0.005				
1/15/2020			<0.005			0.045
1/16/2020				<0.005	0.0018 (J)	
3/25/2020		<0.005				
9/23/2020			<0.005		0.016	
9/24/2020		<0.005				0.026
2/9/2021		<0.005	<0.005		<0.005	0.06
3/3/2021		<0.005	<0.005		<0.005	
3/4/2021						0.061
8/25/2021					0.019	
8/26/2021						0.055
9/1/2021		0.0027 (J)	<0.005			
2/10/2022		0.0034 (J)	<0.005	<0.005	0.019	0.057
8/31/2022		0.0041 (J)				
9/1/2022			<0.005	<0.005	0.023	0.048
2/8/2023			<0.005		0.017	0.052
2/9/2023		0.0051		<0.005		
8/16/2023		0.0046 (J)		0.0075	0.019	0.054
8/17/2023	0.0018 (J)		<0.005			
12/20/2023	0.0015 (J)					
2/21/2024				0.023		
2/22/2024	<0.005		<0.005		0.015	0.053
2/23/2024		0.0056				
6/10/2024	0.0012 (J)					
8/21/2024			0.0012 (J)			
8/22/2024		0.0079		0.028		
8/23/2024	0.0015 (J)				0.014	0.054
11/26/2024	0.0022 (J)					
2/26/2025	<0.005	0.0071	<0.005	0.028	0.013	
2/27/2025						0.056
5/21/2025	<0.005					
Mean	0.0029	0.004814	0.004683	0.01331	0.0139	0.05175
Std. Dev.	0.001762	0.001548	0.001097	0.01092	0.006618	0.009265
Upper Lim.	0.005	0.005442	0.005	0.028	0.01755	0.05825
Lower Lim.	0.0012	0.003001	0.0012	0.005	0.006196	0.04605

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 7/7/2025 3:02 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AMA-R6

	PZ-35	PZ-37	PZ-51	PZ-52D
10/12/2017		0.234		
11/21/2017		0.225		
1/11/2018		0.168		
2/20/2018		0.32		
4/3/2018		0.28		
6/29/2018		0.26		
8/6/2018		0.21		
9/24/2018		0.33		
10/16/2018	<0.005			
9/26/2019	<0.005			
3/25/2020	<0.005			
9/24/2020	<0.005			
9/25/2020		0.32		
2/9/2021		0.28		
2/10/2021	<0.005			
3/4/2021	<0.005	0.27		
8/25/2021		0.2		
9/1/2021	0.0016 (J)			
11/4/2021				0.0034 (J)
2/10/2022	0.003 (J)	0.2	0.029	
2/11/2022				0.0025 (J)
4/4/2022		0.18		
4/7/2022		0.18		
8/31/2022	0.0033 (J)			
9/1/2022		0.17	0.026	0.0041 (J)
2/8/2023		0.16		0.0057
2/9/2023	0.0041 (J)		0.028	
8/16/2023	0.0039 (J)		0.024	
8/17/2023		0.15		0.011
2/21/2024		0.13		0.0099
2/22/2024			0.024	
2/23/2024	0.0035 (J)			
8/21/2024		0.12		0.01
8/22/2024	0.0038 (J)		0.022	
2/25/2025	0.0041 (J)			
2/27/2025		0.11	0.021	0.0098
Mean	0.004093	0.2141	0.02486	0.00705
Std. Dev.	0.001017	0.06742	0.002968	0.003475
Upper Lim.	0.005	0.2513	0.02838	0.01097
Lower Lim.	0.0033	0.177	0.02133	0.003373

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 7/7/2025 3:02 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AMA-R6

	YGWC-36A	YGWC-49	YGWC-50
9/1/2016		<0.001	
9/2/2016	<0.001		
11/14/2016	<0.001		
11/15/2016		<0.001	
2/27/2017		9E-05 (J)	
2/28/2017	<0.001		
5/9/2017	<0.001	<0.001	
7/13/2017	<0.001	<0.001	
9/22/2017	<0.001		
9/29/2017	<0.001		
10/6/2017	<0.001		
10/11/2017		<0.001	
3/30/2018	<0.001		
4/4/2018		<0.001	
9/20/2018		<0.001	
3/6/2019	<0.001		
4/4/2019	<0.001		
9/26/2019	<0.001	<0.001	
2/14/2020	5.7E-05 (J)		
2/17/2020		<0.001	
3/25/2020	<0.001	<0.001	
9/24/2020		<0.001	
10/7/2020	<0.001		
2/9/2021		<0.001	
2/10/2021	<0.001		
2/8/2022		<0.001	
2/11/2022	<0.001		
8/31/2022		<0.001	
9/1/2022	<0.001		
2/9/2023	<0.001	<0.001	
8/16/2023	<0.001	<0.001	
8/17/2023			<0.001
12/20/2023			<0.001
2/21/2024		<0.001	
2/22/2024			<0.001
2/23/2024	<0.001		
6/10/2024			<0.001
8/22/2024	<0.001	<0.001	
8/23/2024			<0.001
11/26/2024			<0.001
2/26/2025	<0.001	<0.001	0.00015 (J)
5/21/2025			<0.001
Mean	0.000959	0.0009545	0.0008938
Std. Dev.	0.0001966	0.0002035	0.0003005
Upper Lim.	0.001	0.001	0.001
Lower Lim.	5.7E-05	9E-05	0.00015

ND substitution: RL or RL/2 if <15% NDs.

FIGURE J.

Appendix IV Trend Tests - Significant Results

Plant Yates Client: Southern Company Data: Yates AMA-R6 Printed 7/7/2025, 3:08 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Lithium (mg/L)	**YGWA-1D (bg)**	**-0.0007935**	**-136**	**-96**	**Yes**	**27**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**YGWA-3D (bg)**	**0.0005113**	**166**	**96**	**Yes**	**27**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**YGWA-3I (bg)**	**0.001189**	**200**	**96**	**Yes**	**27**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**YGWA-18I (bg)**	**-0.000202**	**-150**	**-96**	**Yes**	**27**	**7.407**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**YGWA-18S (bg)**	**-0.0002014**	**-108**	**-96**	**Yes**	**27**	**3.704**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**YGWA-39 (bg)**	**0.0008044**	**128**	**76**	**Yes**	**23**	**4.348**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**YGWA-47 (bg)**	**-0.0001811**	**-118**	**-71**	**Yes**	**22**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**YGWC-42**	**0.003719**	**164**	**76**	**Yes**	**23**	**0**	**n/a**	**0.05**	**NP**
Selenium (mg/L)	**YGWA-17S (bg)**	**0**	**136**	**96**	**Yes**	**27**	**77.78**	**n/a**	**0.05**	**NP**
Selenium (mg/L)	**PZ-37**	**-0.02392**	**-130**	**-66**	**Yes**	**21**	**0**	**n/a**	**0.05**	**NP**

Appendix IV Trend Tests - All Results

Plant Yates Client: Southern Company Data: Yates AMA-R6 Printed 7/7/2025, 3:08 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Cadmium (mg/L)	GWA-2 (bg)	0	-1.486	-1.96	No	42	97.62	n/a	0.05	NP
Cadmium (mg/L)	YGWA-1D (bg)	0	16	85	No	25	96	n/a	0.05	NP
Cadmium (mg/L)	YGWA-1I (bg)	0	0	85	No	25	100	n/a	0.05	NP
Cadmium (mg/L)	YGWA-2I (bg)	0	0	85	No	25	100	n/a	0.05	NP
Cadmium (mg/L)	YGWA-3D (bg)	0	39	85	No	25	92	n/a	0.05	NP
Cadmium (mg/L)	YGWA-3I (bg)	0	-21	-85	No	25	88	n/a	0.05	NP
Cadmium (mg/L)	YGWA-4I (bg)	0	-24	-96	No	27	96.3	n/a	0.05	NP
Cadmium (mg/L)	YGWA-5D (bg)	0	0	96	No	27	100	n/a	0.05	NP
Cadmium (mg/L)	YGWA-5I (bg)	0	18	96	No	27	96.3	n/a	0.05	NP
Cadmium (mg/L)	YGWA-14S (bg)	0	14	85	No	25	96	n/a	0.05	NP
Cadmium (mg/L)	YGWA-17S (bg)	0	18	96	No	27	96.3	n/a	0.05	NP
Cadmium (mg/L)	YGWA-18I (bg)	0	0	96	No	27	100	n/a	0.05	NP
Cadmium (mg/L)	YGWA-18S (bg)	0	18	96	No	27	96.3	n/a	0.05	NP
Cadmium (mg/L)	YGWA-20S (bg)	0	0	96	No	27	100	n/a	0.05	NP
Cadmium (mg/L)	YGWA-21I (bg)	0	-19	-96	No	27	88.89	n/a	0.05	NP
Cadmium (mg/L)	YGWA-30I (bg)	0	0	85	No	25	100	n/a	0.05	NP
Cadmium (mg/L)	YGWA-39 (bg)	0	-35	-76	No	23	73.91	n/a	0.05	NP
Cadmium (mg/L)	YGWA-40 (bg)	0	0	76	No	23	100	n/a	0.05	NP
Cadmium (mg/L)	YGWA-47 (bg)	0	56	62	No	20	75	n/a	0.05	NP
Cadmium (mg/L)	YGWC-50	-0.002859	-13	-17	No	8	0	n/a	0.05	NP
Lithium (mg/L)	GWA-2 (bg)	-0.0001531	-31	-62	No	20	35	n/a	0.05	NP
Lithium (mg/L)	**YGWA-1D (bg)**	**-0.0007935**	**-136**	**-96**	**Yes**	**27**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	YGWA-1I (bg)	0	12	96	No	27	18.52	n/a	0.05	NP
Lithium (mg/L)	YGWA-2I (bg)	0.000001843	14	96	No	27	14.81	n/a	0.05	NP
Lithium (mg/L)	**YGWA-3D (bg)**	**0.0005113**	**166**	**96**	**Yes**	**27**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**YGWA-3I (bg)**	**0.001189**	**200**	**96**	**Yes**	**27**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	YGWA-4I (bg)	-0.0001542	-76	-96	No	27	0	n/a	0.05	NP
Lithium (mg/L)	YGWA-5D (bg)	0.00007676	53	96	No	27	0	n/a	0.05	NP
Lithium (mg/L)	YGWA-5I (bg)	0.00002938	72	96	No	27	11.11	n/a	0.05	NP
Lithium (mg/L)	YGWA-14S (bg)	0	0	96	No	27	100	n/a	0.05	NP
Lithium (mg/L)	YGWA-17S (bg)	0	13	96	No	27	92.59	n/a	0.05	NP
Lithium (mg/L)	**YGWA-18I (bg)**	**-0.000202**	**-150**	**-96**	**Yes**	**27**	**7.407**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**YGWA-18S (bg)**	**-0.0002014**	**-108**	**-96**	**Yes**	**27**	**3.704**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	YGWA-20S (bg)	0	-14	-96	No	27	96.3	n/a	0.05	NP
Lithium (mg/L)	YGWA-21I (bg)	0.00008913	76	96	No	27	3.704	n/a	0.05	NP
Lithium (mg/L)	YGWA-30I (bg)	0	-64	-96	No	27	44.44	n/a	0.05	NP
Lithium (mg/L)	**YGWA-39 (bg)**	**0.0008044**	**128**	**76**	**Yes**	**23**	**4.348**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	YGWA-40 (bg)	0	-45	-76	No	23	86.96	n/a	0.05	NP
Lithium (mg/L)	**YGWA-47 (bg)**	**-0.0001811**	**-118**	**-71**	**Yes**	**22**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**YGWC-42**	**0.003719**	**164**	**76**	**Yes**	**23**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	YAMW-3	0.002244	7	17	No	8	0	n/a	0.05	NP
Selenium (mg/L)	GWA-2 (bg)	0	0	1.96	No	42	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-1D (bg)	0	0	85	No	25	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-1I (bg)	0	0	85	No	25	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-2I (bg)	0	0	85	No	25	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-3D (bg)	0	0	85	No	25	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-3I (bg)	0	0	85	No	25	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-4I (bg)	0	15	96	No	27	92.59	n/a	0.05	NP
Selenium (mg/L)	YGWA-5D (bg)	0	0	96	No	27	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-5I (bg)	0	24	96	No	27	96.3	n/a	0.05	NP
Selenium (mg/L)	YGWA-14S (bg)	0	-14	-85	No	25	60	n/a	0.05	NP
Selenium (mg/L)	**YGWA-17S (bg)**	**0**	**136**	**96**	**Yes**	**27**	**77.78**	**n/a**	**0.05**	**NP**
Selenium (mg/L)	YGWA-18I (bg)	0	0	96	No	27	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-18S (bg)	0	0	96	No	27	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-20S (bg)	0	0	96	No	27	100	n/a	0.05	NP

Appendix IV Trend Tests - All Results

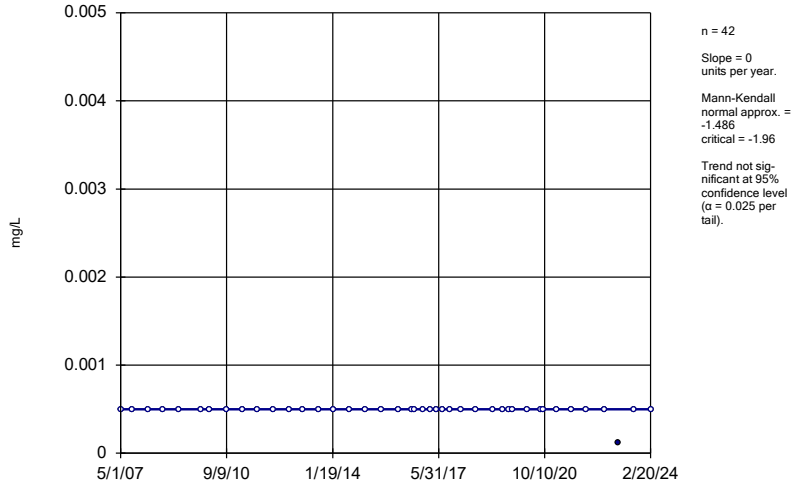
Plant Yates Client: Southern Company Data: Yates AMA-R6 Printed 7/7/2025, 3:08 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Selenium (mg/L)	YGWA-21I (bg)	0	49	96	No	27	92.59	n/a	0.05	NP
Selenium (mg/L)	YGWA-30I (bg)	0	0	85	No	25	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-39 (bg)	0	8	76	No	23	95.65	n/a	0.05	NP
Selenium (mg/L)	YGWA-40 (bg)	0	19	76	No	23	52.17	n/a	0.05	NP
Selenium (mg/L)	YGWA-47 (bg)	0	29	53	No	18	88.89	n/a	0.05	NP
Selenium (mg/L)	**PZ-37**	**-0.02392**	**-130**	**-66**	**Yes**	**21**	**0**	**n/a**	**0.05**	**NP**

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Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-2 (bg)



n = 42

Slope = 0
units per year.

Mann-Kendall
normal approx. =
-1.486
critical = -1.96

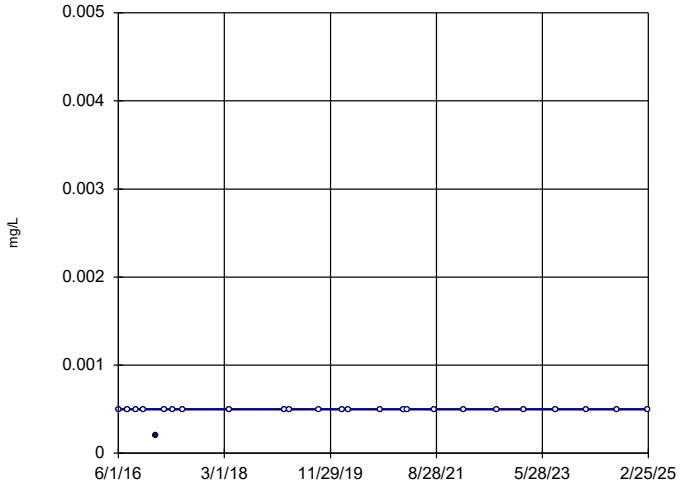
Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Cadmium Analysis Run 7/7/2025 3:06 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-1D (bg)



n = 25

Slope = 0
units per year.

Mann-Kendall
statistic = 16
critical = 85

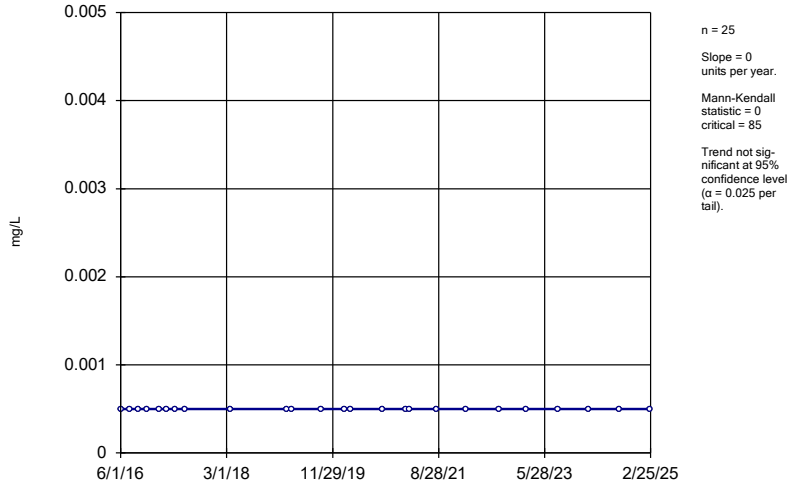
Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Cadmium Analysis Run 7/7/2025 3:06 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-1I (bg)



n = 25

Slope = 0
units per year.

Mann-Kendall
statistic = 0
critical = 85

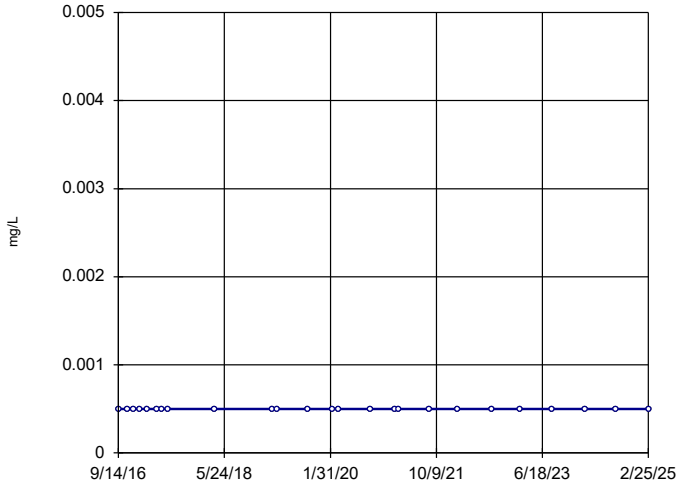
Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Cadmium Analysis Run 7/7/2025 3:06 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-2I (bg)



n = 25

Slope = 0
units per year.

Mann-Kendall
statistic = 0
critical = 85

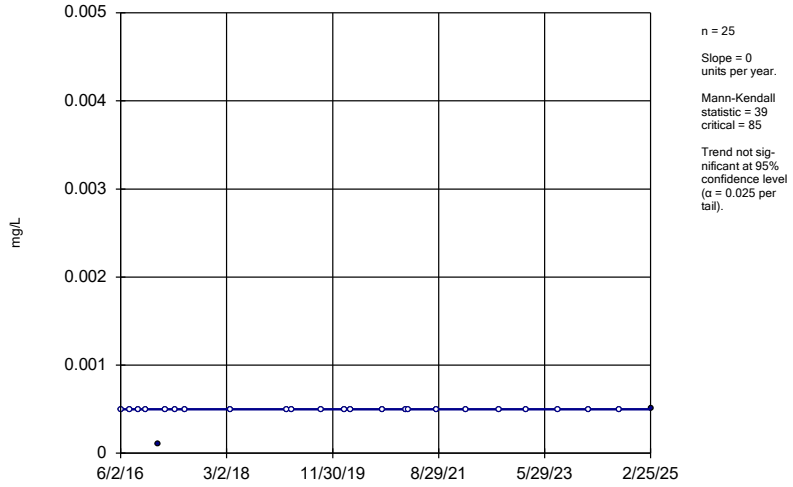
Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Cadmium Analysis Run 7/7/2025 3:06 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3D (bg)



n = 25

Slope = 0 units per year.

Mann-Kendall statistic = 39 critical = 85

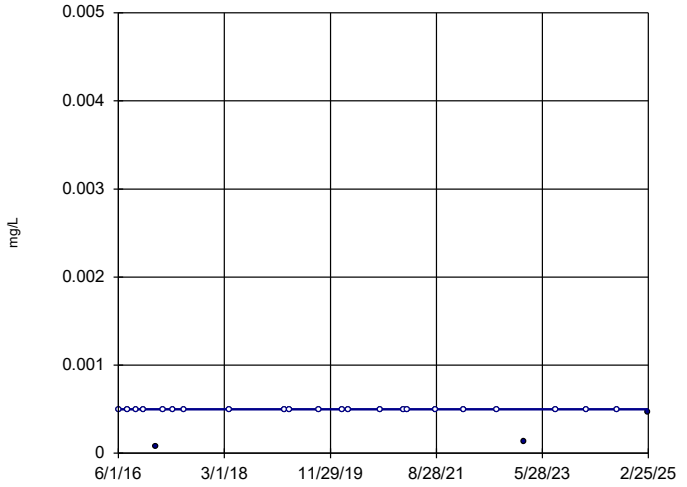
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cadmium Analysis Run 7/7/2025 3:06 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3I (bg)



n = 25

Slope = 0 units per year.

Mann-Kendall statistic = -21 critical = -85

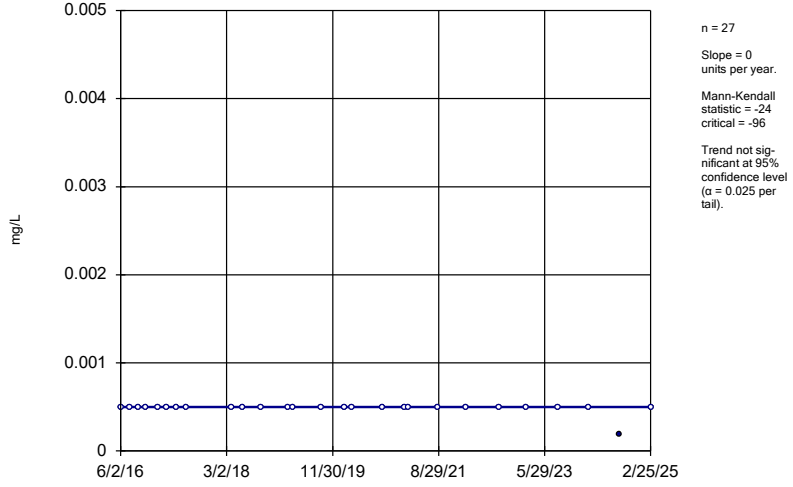
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cadmium Analysis Run 7/7/2025 3:06 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-4I (bg)



n = 27

Slope = 0 units per year.

Mann-Kendall statistic = -24 critical = -96

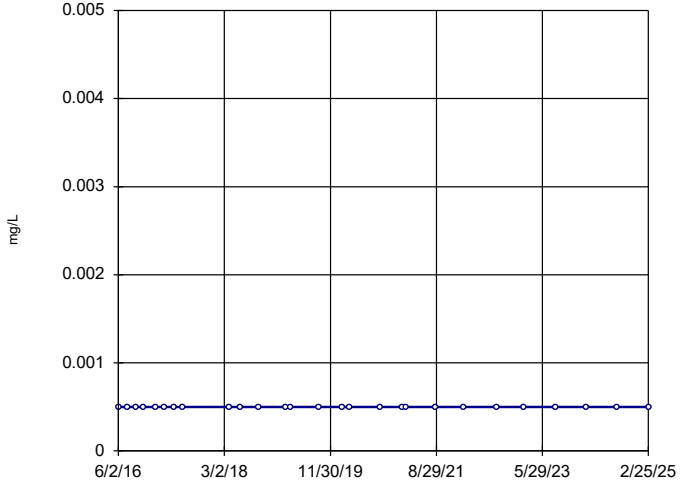
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cadmium Analysis Run 7/7/2025 3:06 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5D (bg)



n = 27

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 96

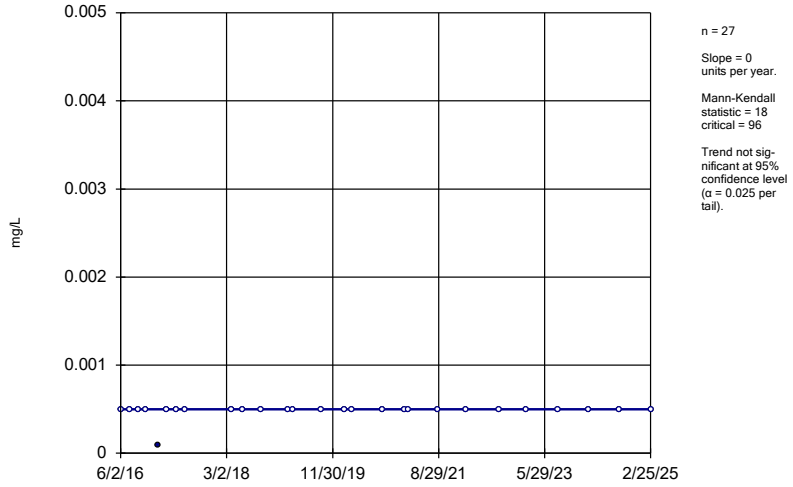
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cadmium Analysis Run 7/7/2025 3:06 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5I (bg)



n = 27

Slope = 0 units per year.

Mann-Kendall statistic = 18
critical = 96

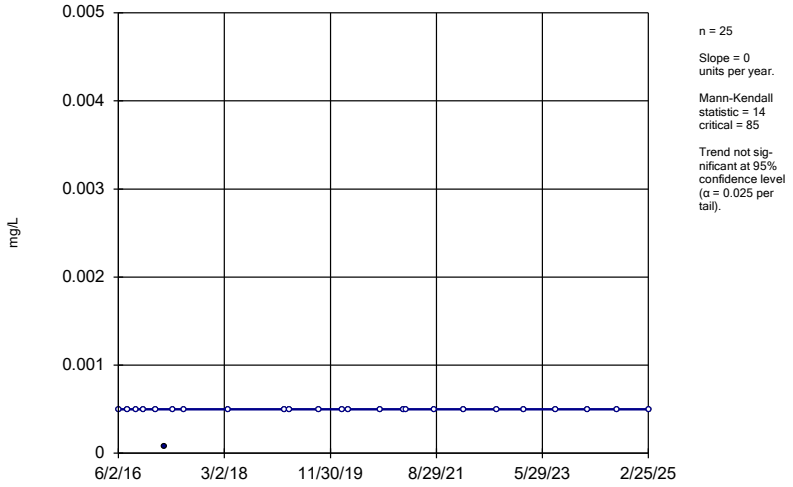
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cadmium Analysis Run 7/7/2025 3:06 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-14S (bg)



n = 25

Slope = 0 units per year.

Mann-Kendall statistic = 14
critical = 85

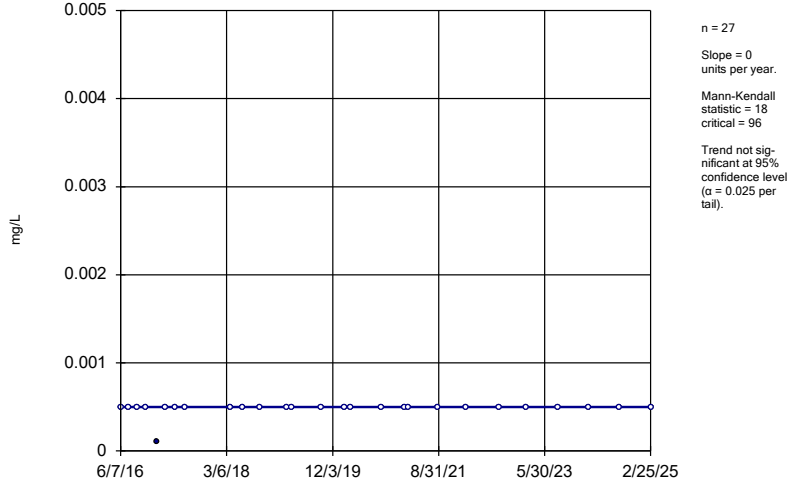
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cadmium Analysis Run 7/7/2025 3:06 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-17S (bg)



n = 27

Slope = 0 units per year.

Mann-Kendall statistic = 18
critical = 96

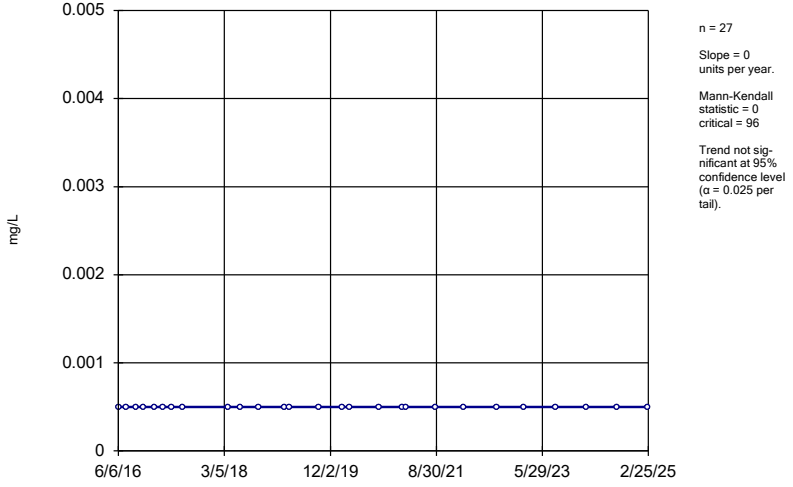
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cadmium Analysis Run 7/7/2025 3:06 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18I (bg)



n = 27

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 96

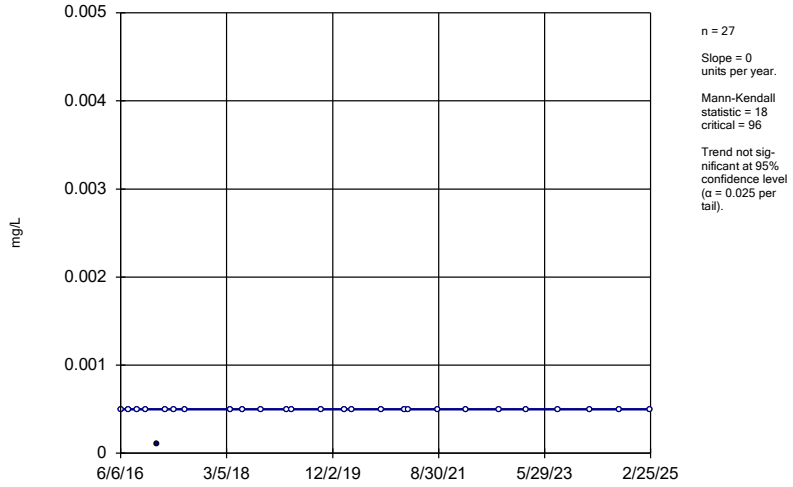
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cadmium Analysis Run 7/7/2025 3:06 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18S (bg)



n = 27

Slope = 0 units per year.

Mann-Kendall statistic = 18
critical = 96

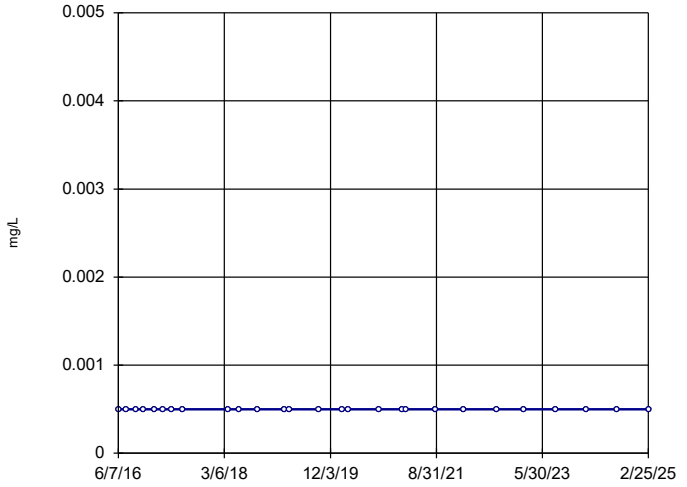
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cadmium Analysis Run 7/7/2025 3:06 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-20S (bg)



n = 27

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 96

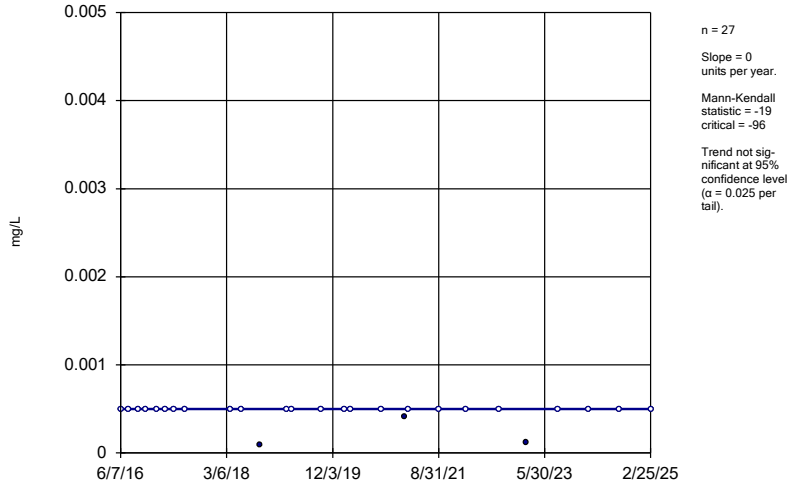
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cadmium Analysis Run 7/7/2025 3:06 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-21I (bg)



n = 27

Slope = 0 units per year.

Mann-Kendall statistic = -19
critical = -96

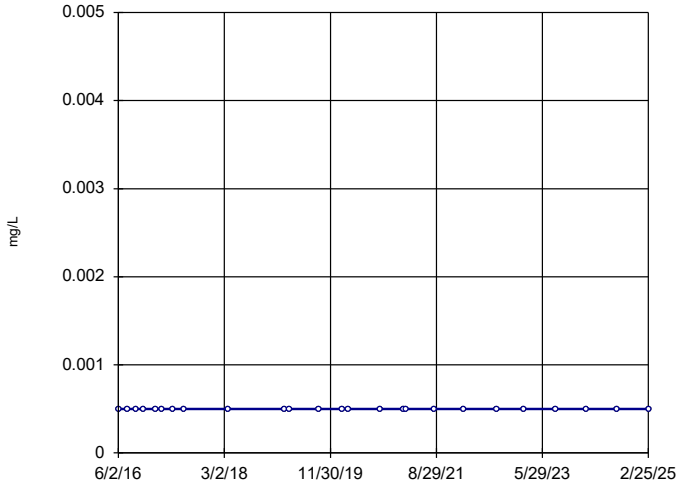
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cadmium Analysis Run 7/7/2025 3:06 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-30I (bg)



n = 25

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 85

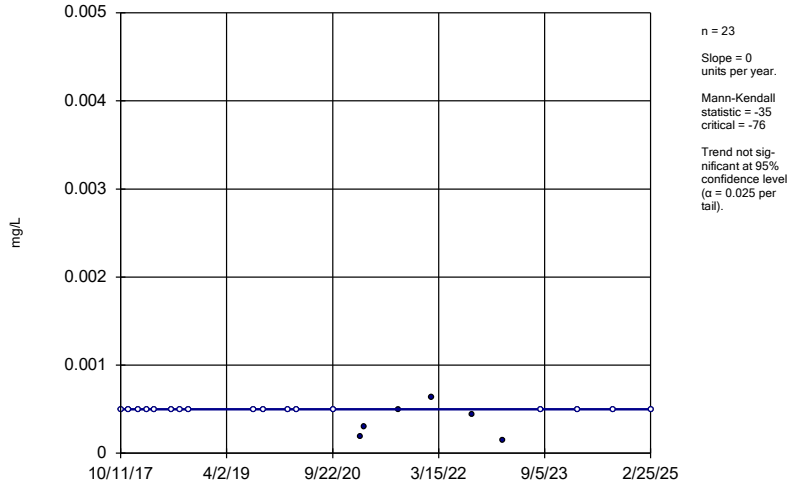
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cadmium Analysis Run 7/7/2025 3:06 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-39 (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = -35
critical = -76

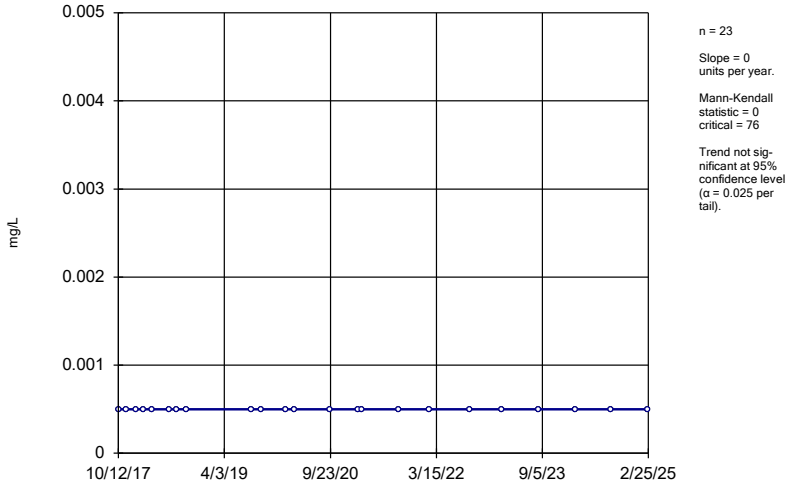
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cadmium Analysis Run 7/7/2025 3:06 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-40 (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 76

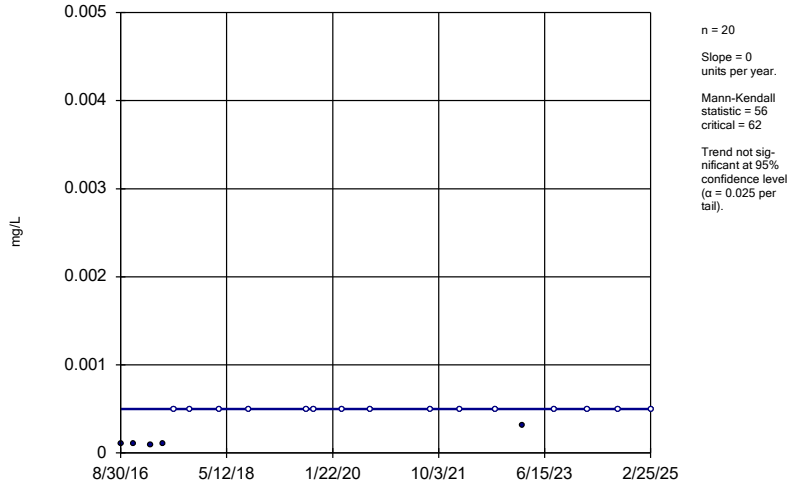
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cadmium Analysis Run 7/7/2025 3:06 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-47 (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = 56
critical = 62

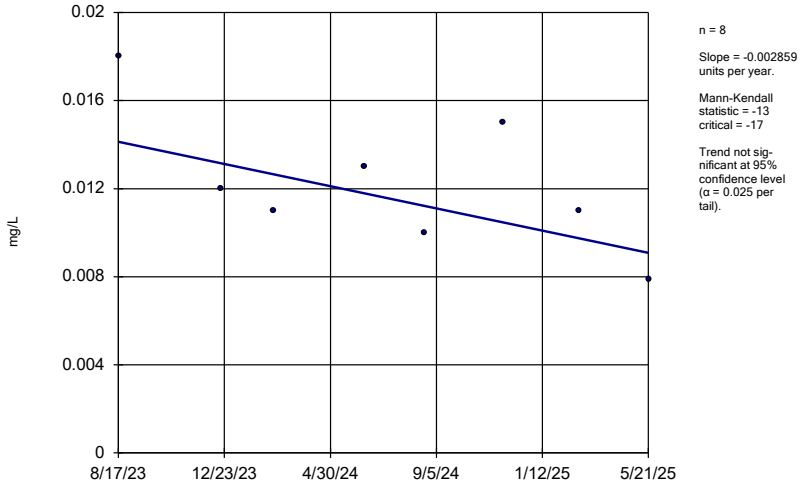
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cadmium Analysis Run 7/7/2025 3:06 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWC-50



n = 8

Slope = -0.002859 units per year.

Mann-Kendall statistic = -13
critical = -17

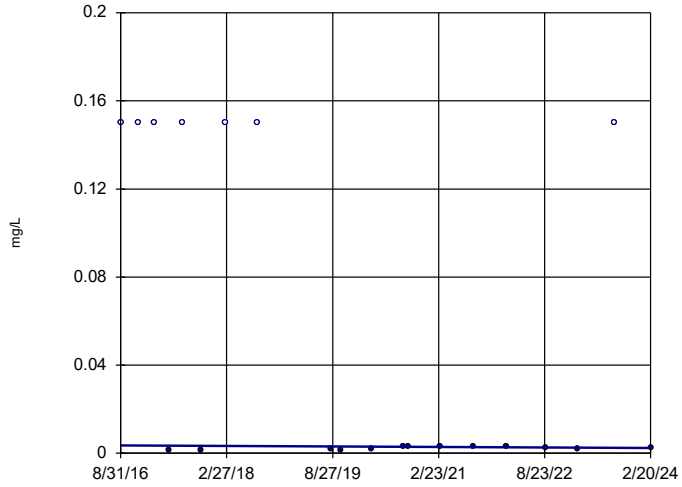
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cadmium Analysis Run 7/7/2025 3:06 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-2 (bg)



n = 20

Slope = -0.0001531 units per year.

Mann-Kendall statistic = -31
critical = -62

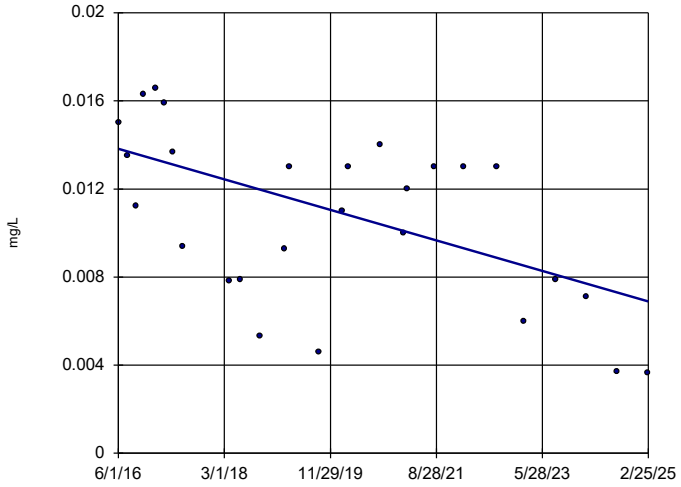
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 7/7/2025 3:06 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWA-1D (bg)



n = 27

Slope = -0.0007935 units per year.

Mann-Kendall statistic = -136
critical = -96

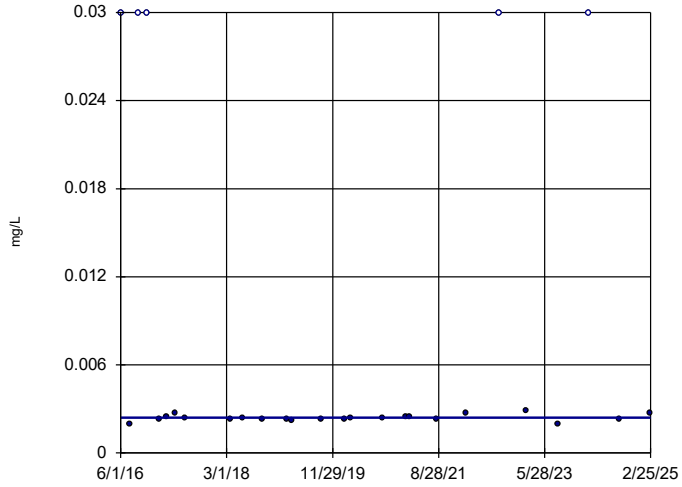
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 7/7/2025 3:06 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-1I (bg)



n = 27

Slope = 0 units per year.

Mann-Kendall statistic = 12
critical = 96

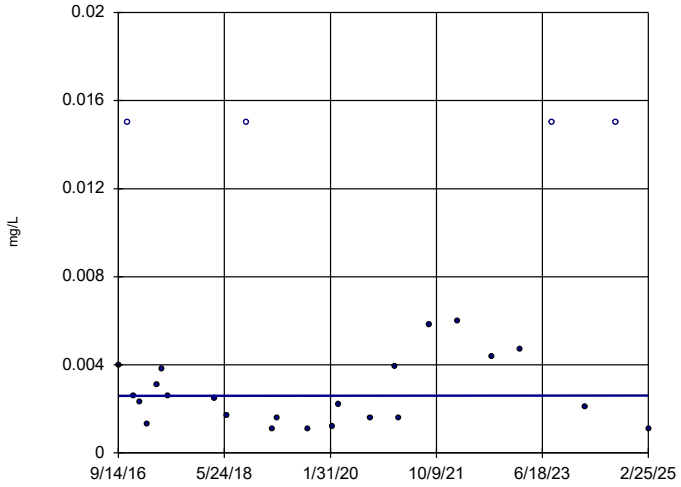
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 7/7/2025 3:06 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-2I (bg)



n = 27

Slope = 0.000001843 units per year.

Mann-Kendall statistic = 14
critical = 96

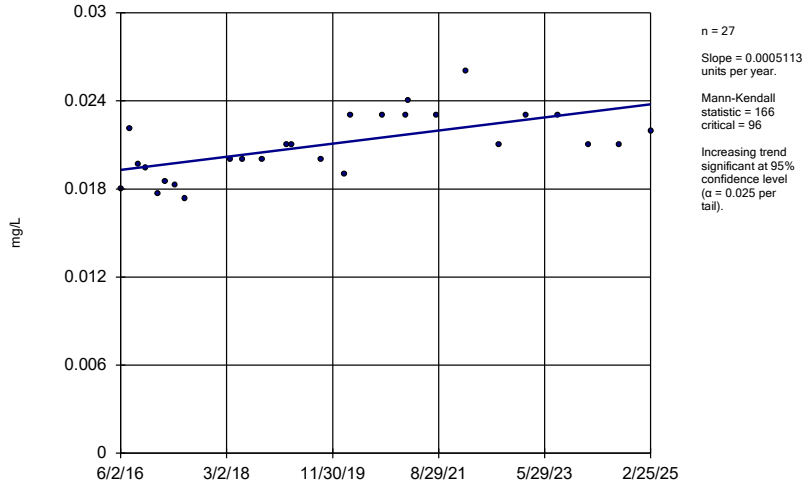
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 7/7/2025 3:06 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWA-3D (bg)



n = 27

Slope = 0.0005113 units per year.

Mann-Kendall statistic = 166
critical = 96

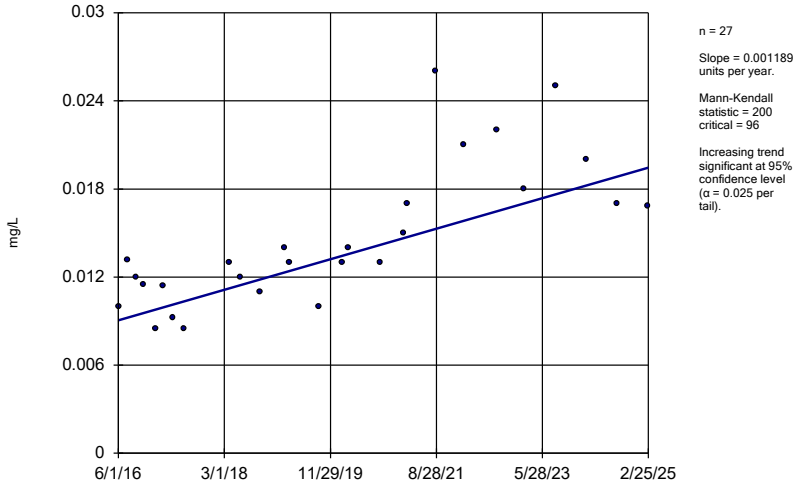
Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 7/7/2025 3:06 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWA-3I (bg)



n = 27

Slope = 0.001189 units per year.

Mann-Kendall statistic = 200
critical = 96

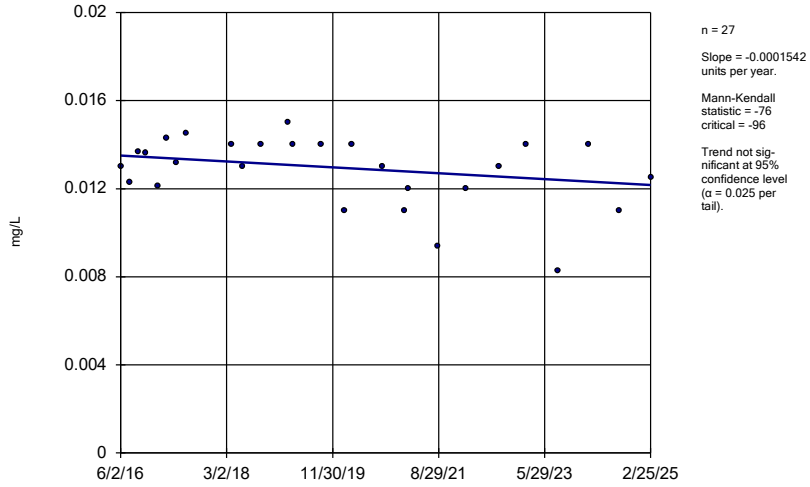
Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 7/7/2025 3:06 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWA-4I (bg)



n = 27

Slope = -0.0001542 units per year.

Mann-Kendall statistic = -76
critical = -96

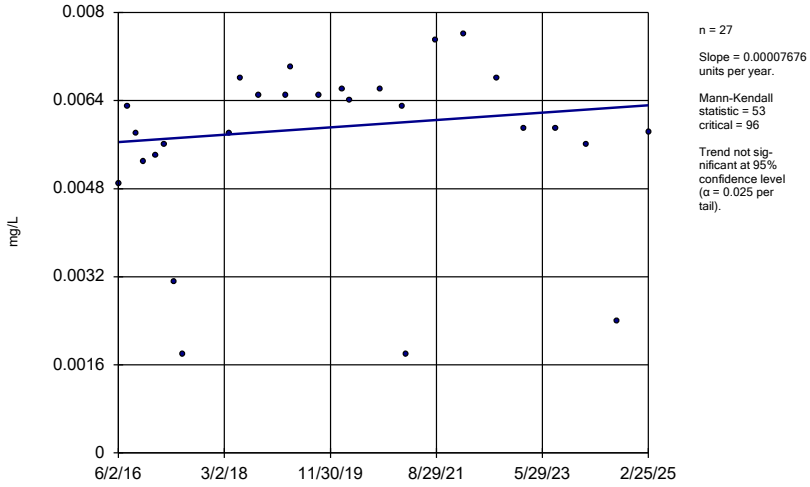
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 7/7/2025 3:06 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWA-5D (bg)



n = 27

Slope = 0.00007676 units per year.

Mann-Kendall statistic = 53
critical = 96

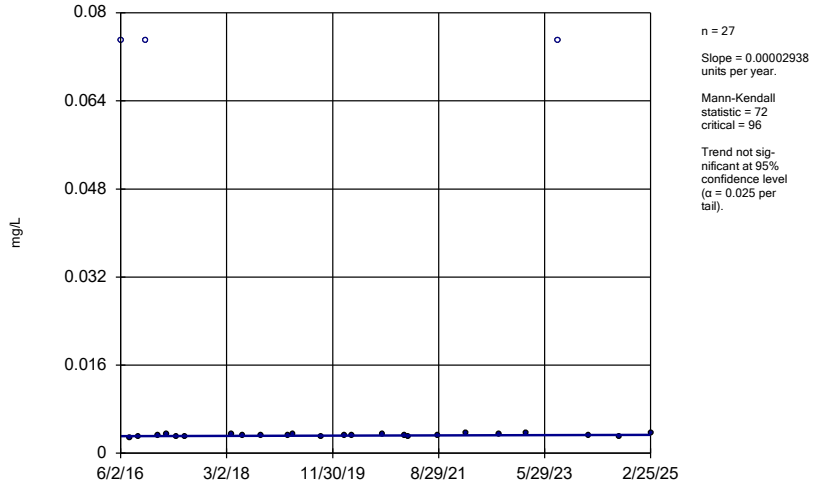
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 7/7/2025 3:06 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5I (bg)



n = 27

Slope = 0.00002938 units per year.

Mann-Kendall statistic = 72
critical = 96

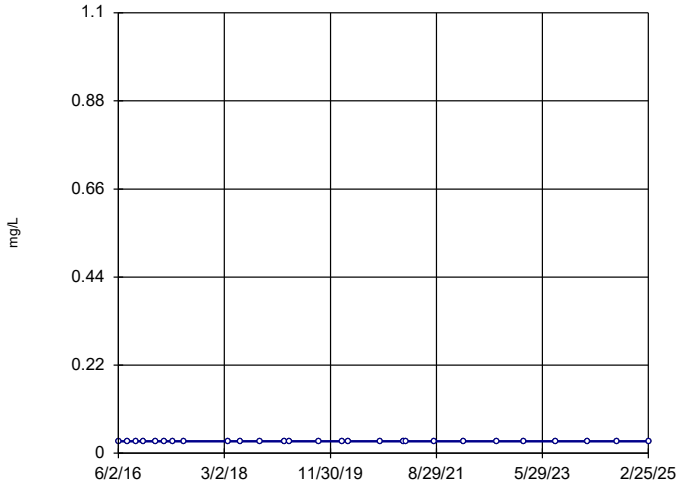
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 7/7/2025 3:06 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-14S (bg)



n = 27

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 96

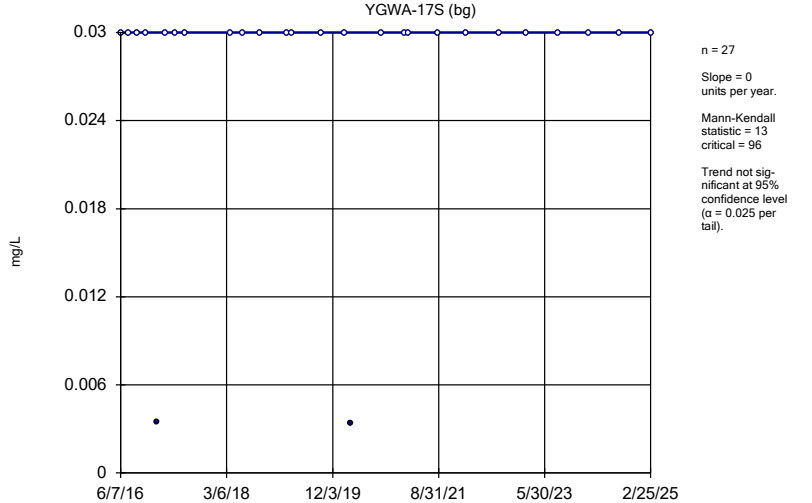
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 7/7/2025 3:06 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-17S (bg)



n = 27

Slope = 0 units per year.

Mann-Kendall statistic = 13
critical = 96

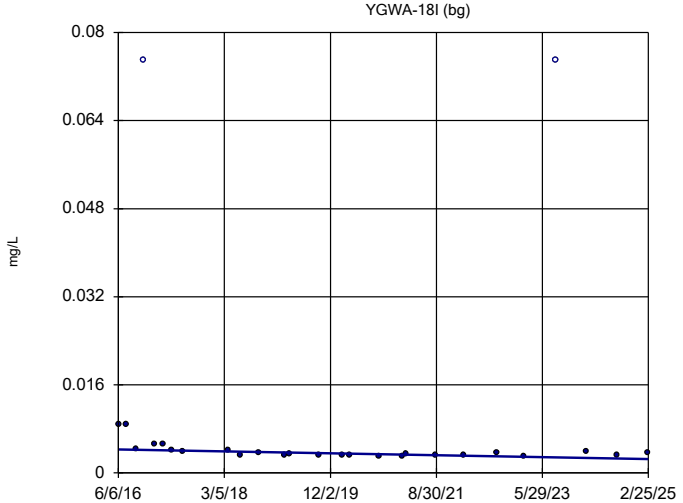
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 7/7/2025 3:06 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18I (bg)



n = 27

Slope = -0.000202 units per year.

Mann-Kendall statistic = -150
critical = -96

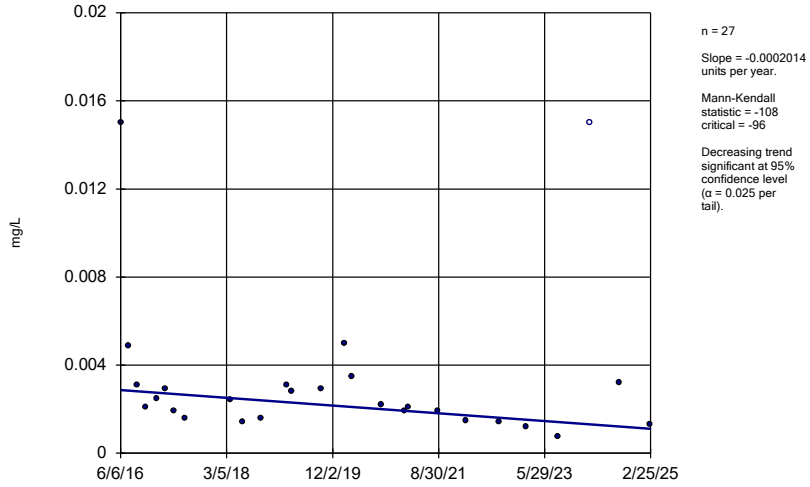
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 7/7/2025 3:06 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18S (bg)



n = 27

Slope = -0.0002014 units per year.

Mann-Kendall statistic = -108
critical = -96

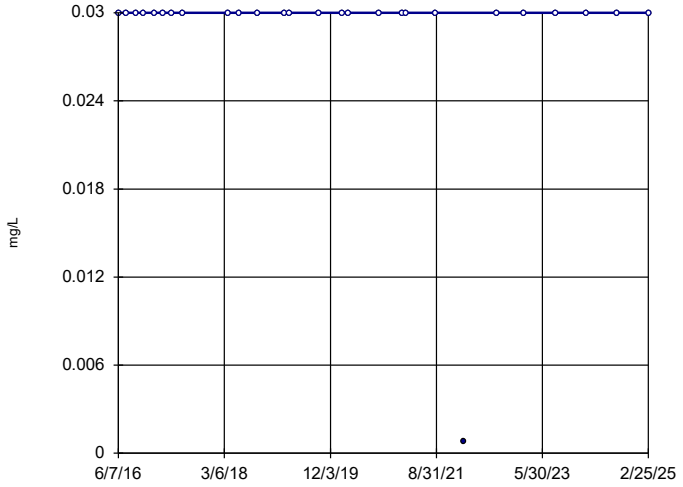
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 7/7/2025 3:06 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-20S (bg)



n = 27

Slope = 0 units per year.

Mann-Kendall statistic = -14
critical = -96

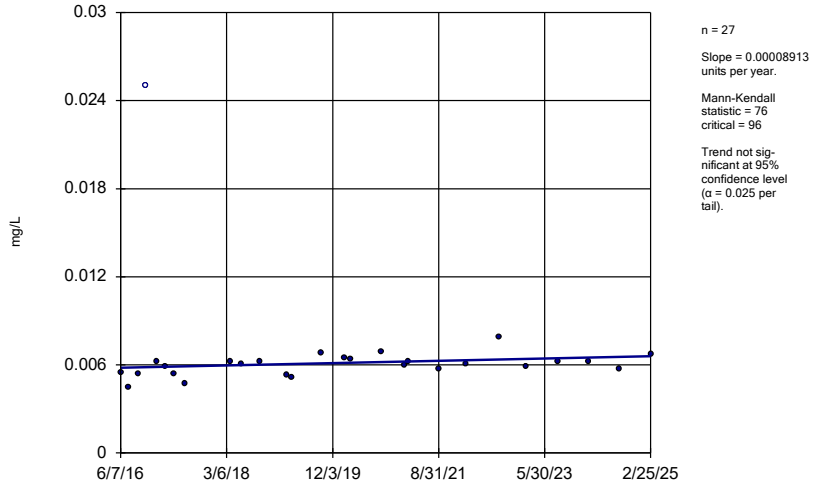
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 7/7/2025 3:06 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-21I (bg)



n = 27

Slope = 0.00008913 units per year.

Mann-Kendall statistic = 76
critical = 96

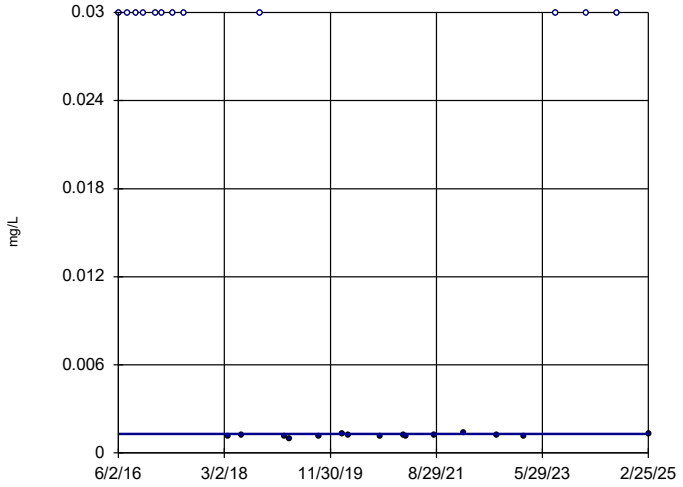
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 7/7/2025 3:06 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-30I (bg)



n = 27

Slope = 0 units per year.

Mann-Kendall statistic = -64
critical = -96

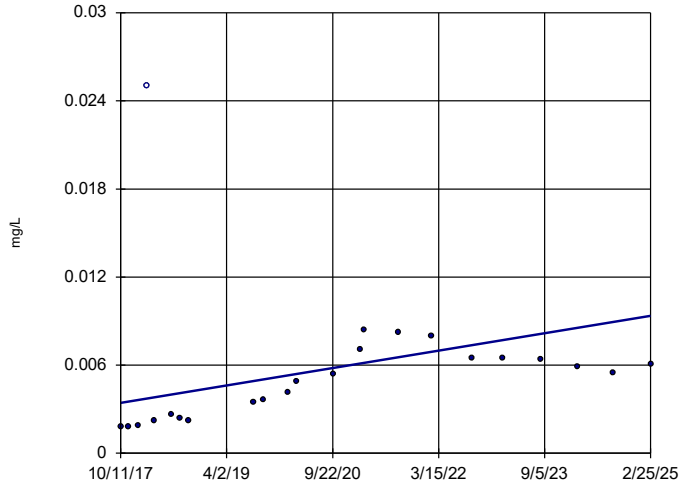
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 7/7/2025 3:06 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-39 (bg)



n = 23

Slope = 0.0008044 units per year.

Mann-Kendall statistic = 128
critical = 76

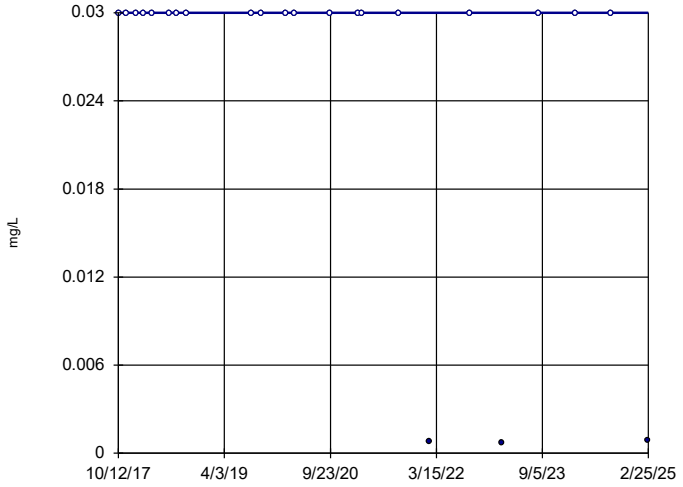
Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 7/7/2025 3:06 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-40 (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = -45
critical = -76

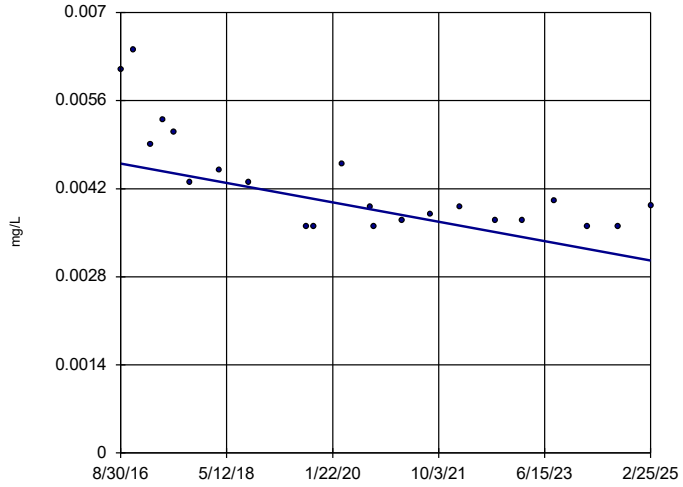
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 7/7/2025 3:06 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWA-47 (bg)



n = 22

Slope = -0.0001811 units per year.

Mann-Kendall statistic = -118
critical = -71

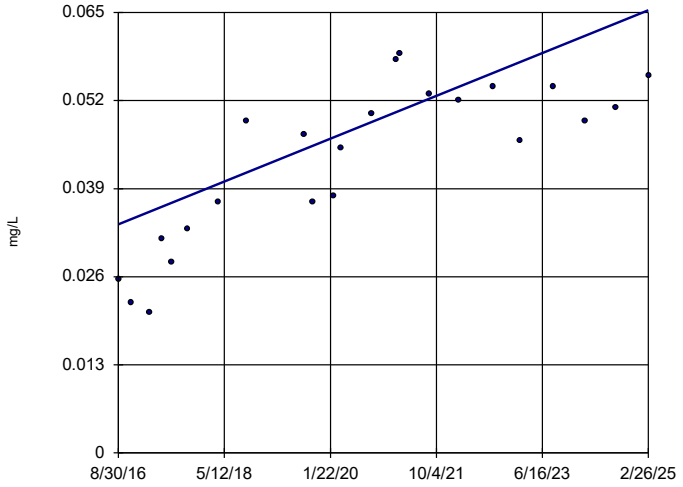
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 7/7/2025 3:06 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YGWC-42



n = 23

Slope = 0.003719 units per year.

Mann-Kendall statistic = 164
critical = 76

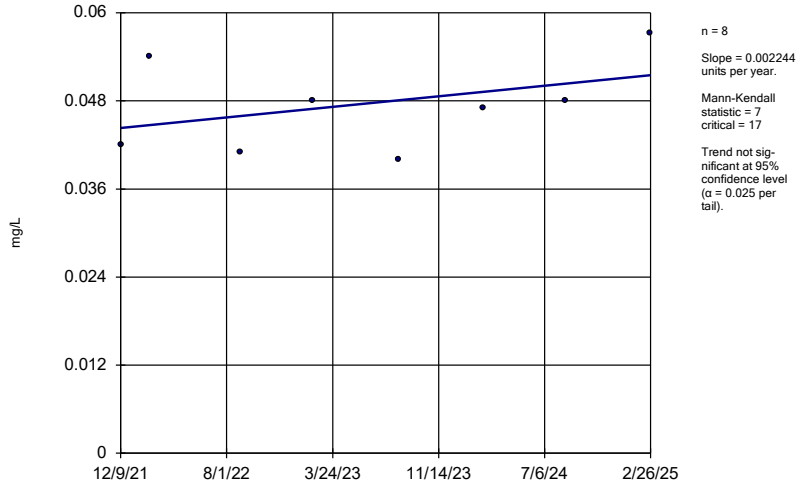
Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 7/7/2025 3:06 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

YAMW-3

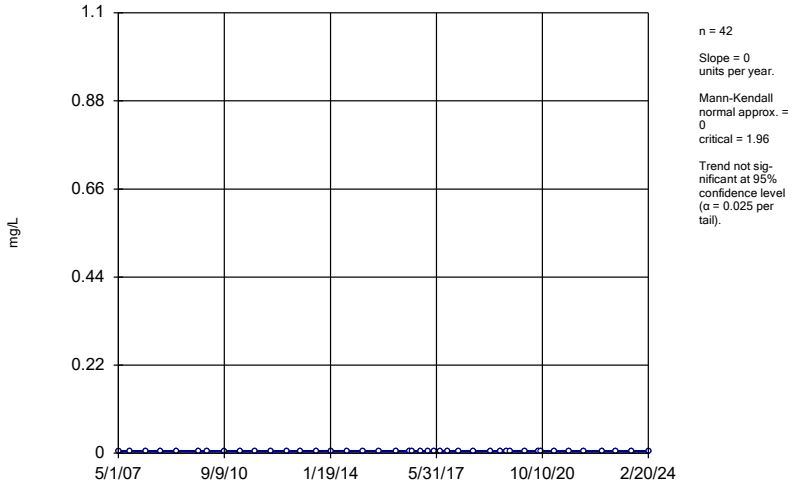


Constituent: Lithium Analysis Run 7/7/2025 3:06 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-2 (bg)

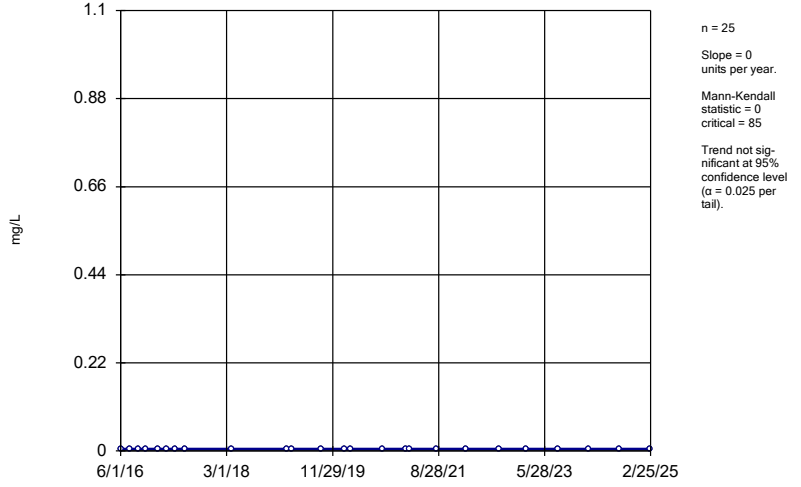


Constituent: Selenium Analysis Run 7/7/2025 3:06 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-1D (bg)

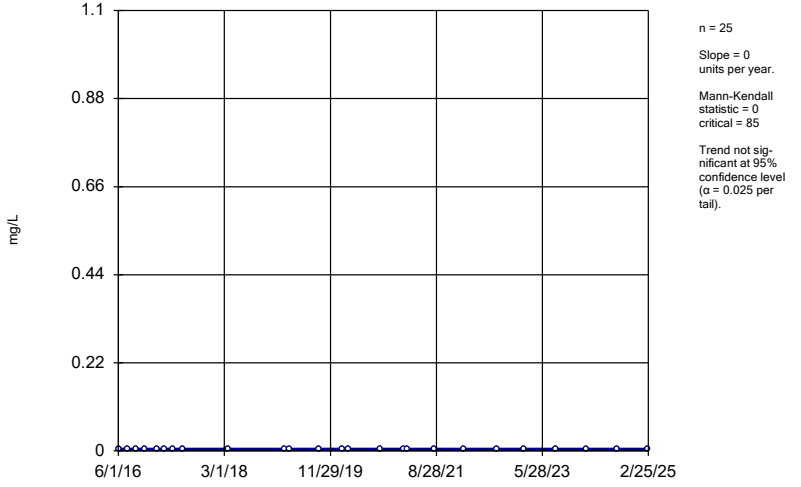


Constituent: Selenium Analysis Run 7/7/2025 3:06 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-1I (bg)

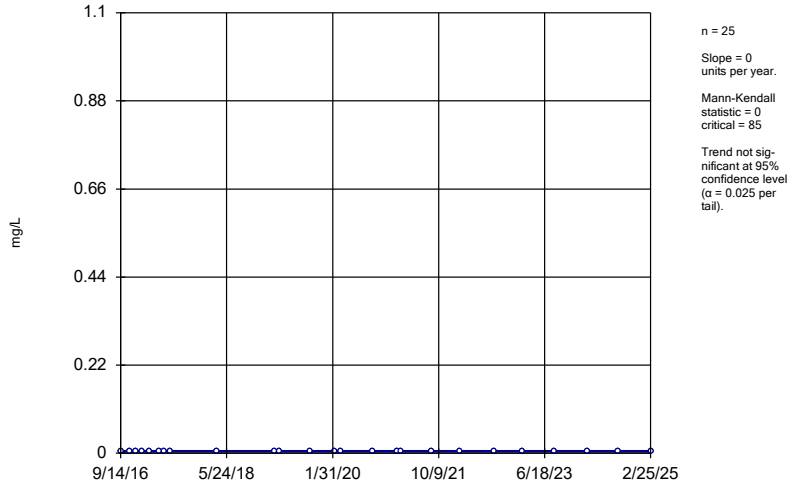


Constituent: Selenium Analysis Run 7/7/2025 3:06 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-2I (bg)



n = 25

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 85

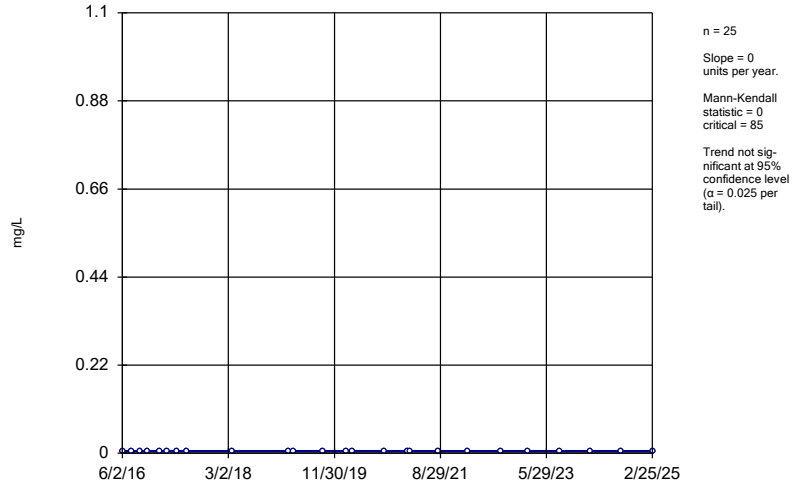
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 7/7/2025 3:06 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3D (bg)



n = 25

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 85

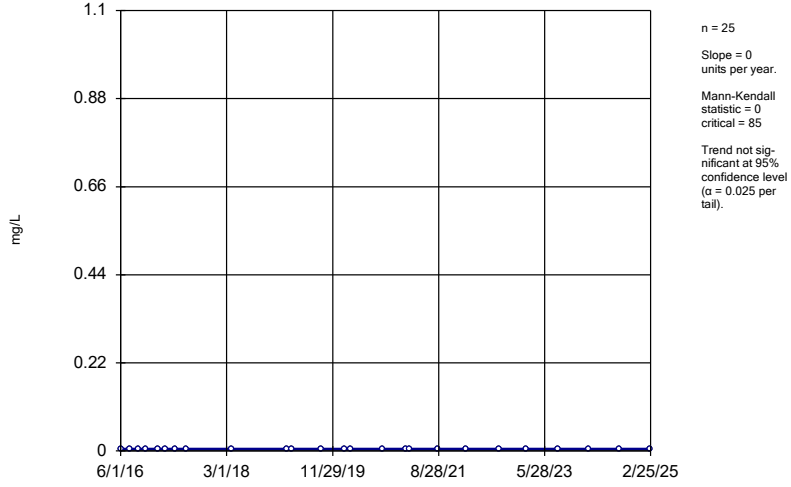
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 7/7/2025 3:06 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3I (bg)



n = 25

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 85

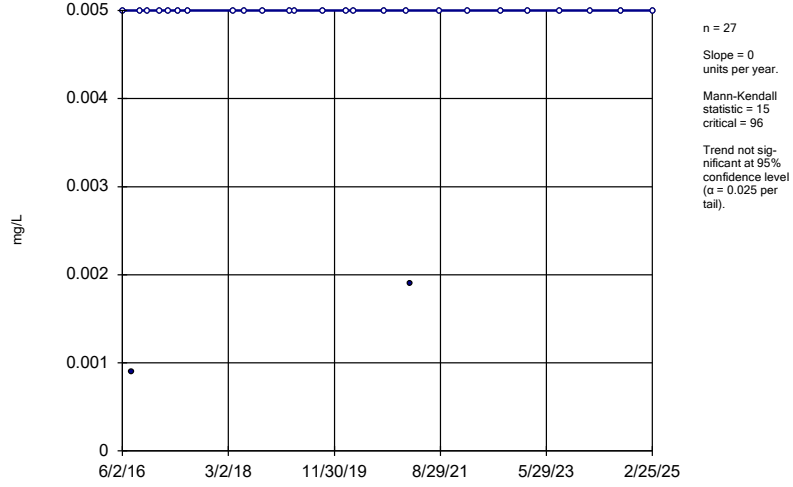
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 7/7/2025 3:06 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-4I (bg)



n = 27

Slope = 0 units per year.

Mann-Kendall statistic = 15 critical = 96

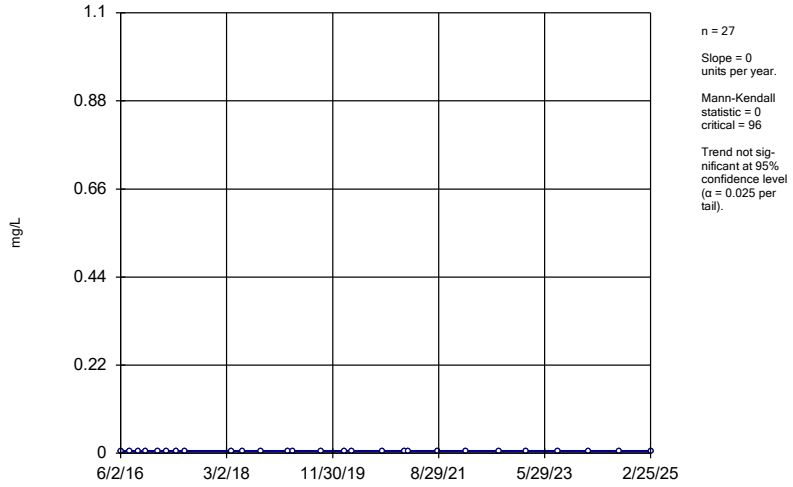
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 7/7/2025 3:06 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5D (bg)



n = 27

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 96

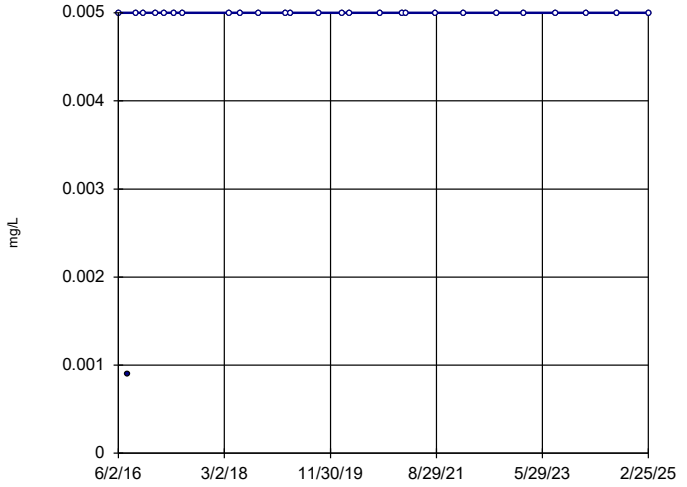
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 7/7/2025 3:06 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5I (bg)



n = 27

Slope = 0 units per year.

Mann-Kendall statistic = 24 critical = 96

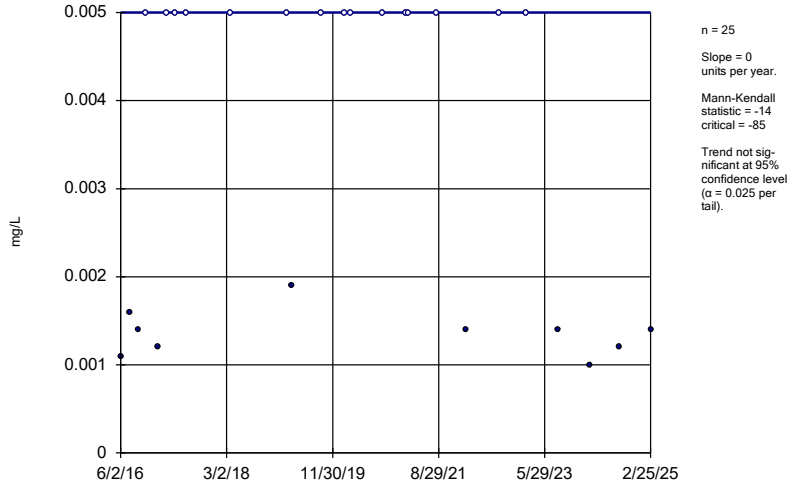
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 7/7/2025 3:06 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-14S (bg)



n = 25

Slope = 0 units per year.

Mann-Kendall statistic = -14 critical = -85

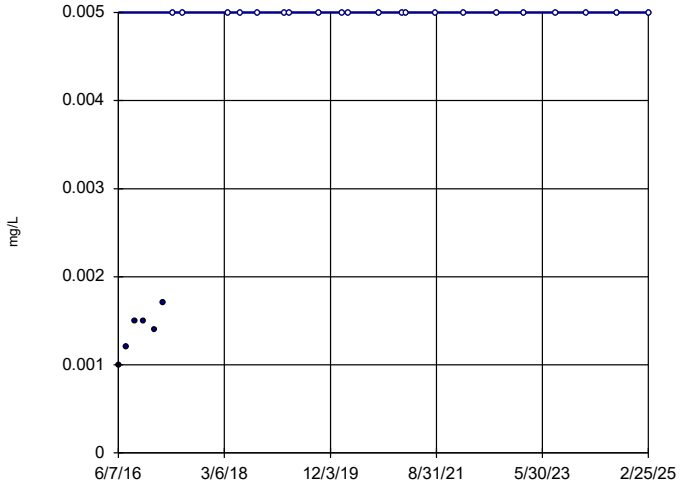
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 7/7/2025 3:06 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-17S (bg)



n = 27

Slope = 0 units per year.

Mann-Kendall statistic = 136 critical = 96

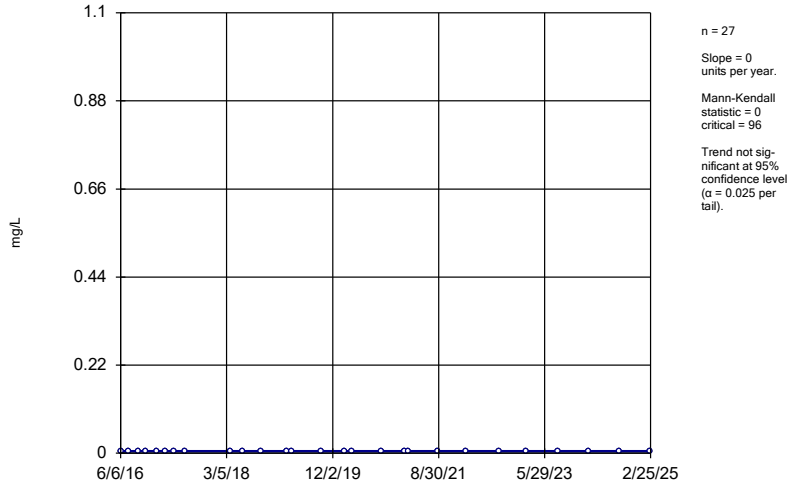
Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 7/7/2025 3:06 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18I (bg)



n = 27

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 96

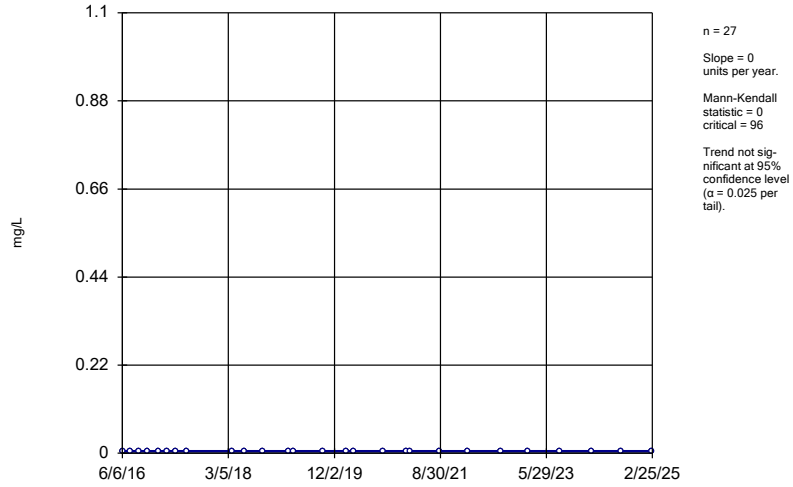
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 7/7/2025 3:06 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18S (bg)



n = 27

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 96

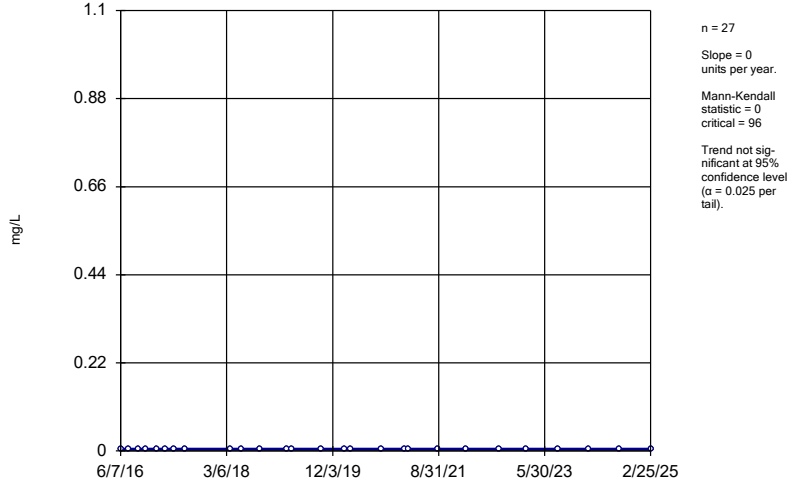
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 7/7/2025 3:06 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-20S (bg)



n = 27

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 96

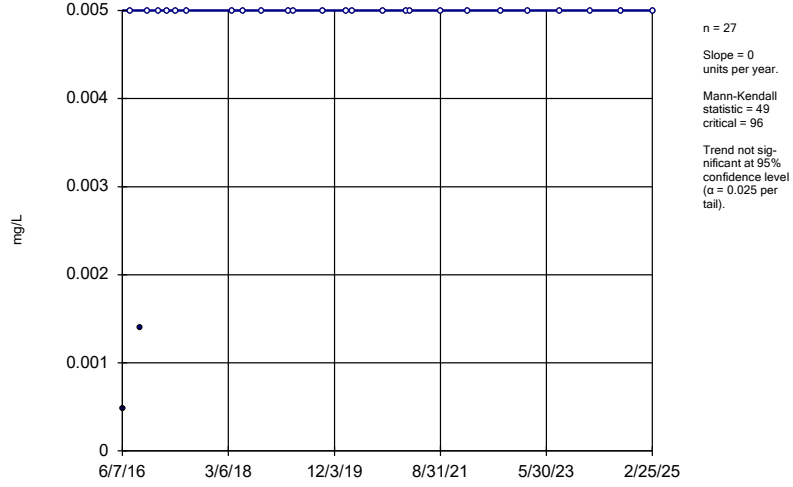
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 7/7/2025 3:06 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-21I (bg)



n = 27

Slope = 0 units per year.

Mann-Kendall statistic = 49 critical = 96

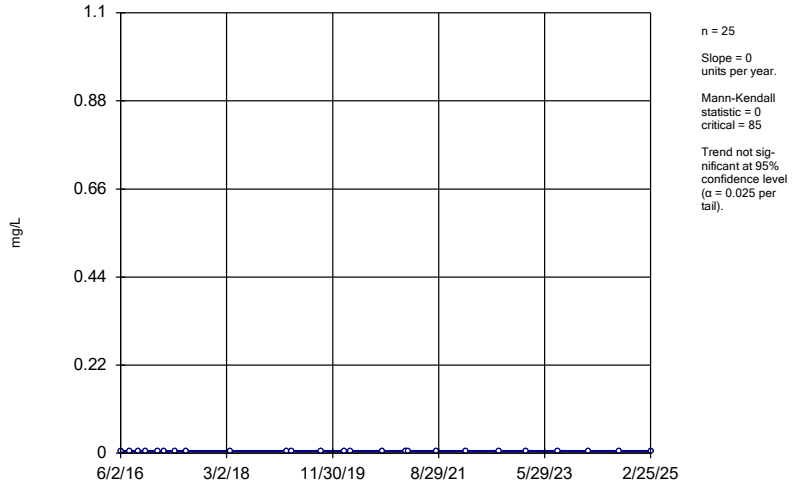
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 7/7/2025 3:06 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

Sanitas™ v.10.0.27 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-30I (bg)



n = 25

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 85

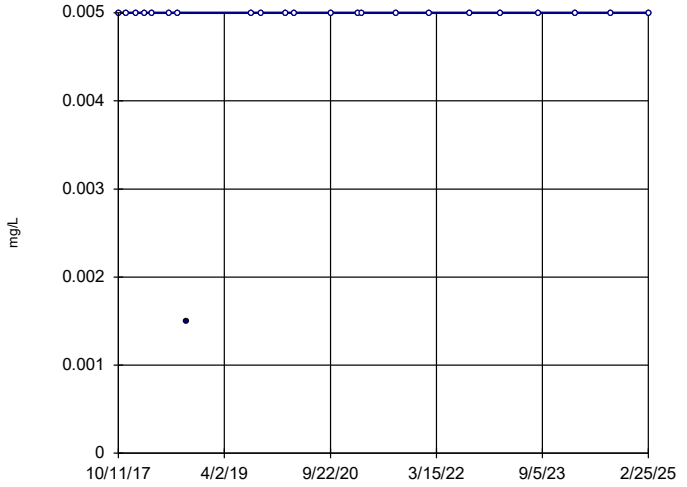
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 7/7/2025 3:06 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-39 (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = 8 critical = 76

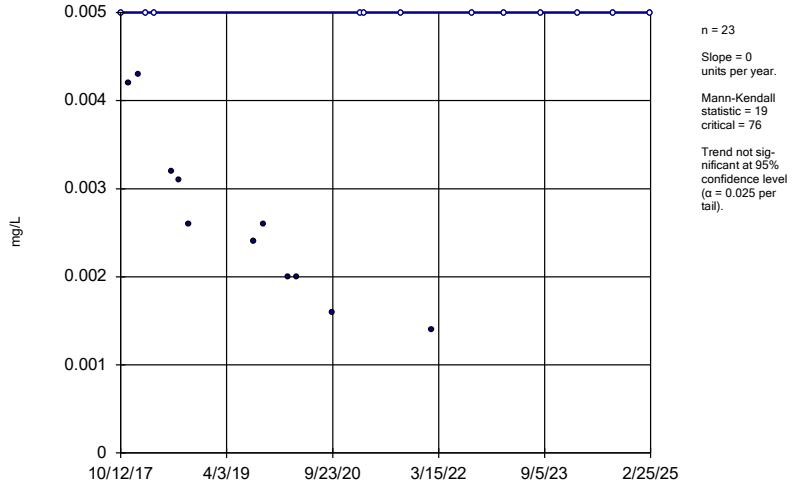
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 7/7/2025 3:07 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-40 (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = 19 critical = 76

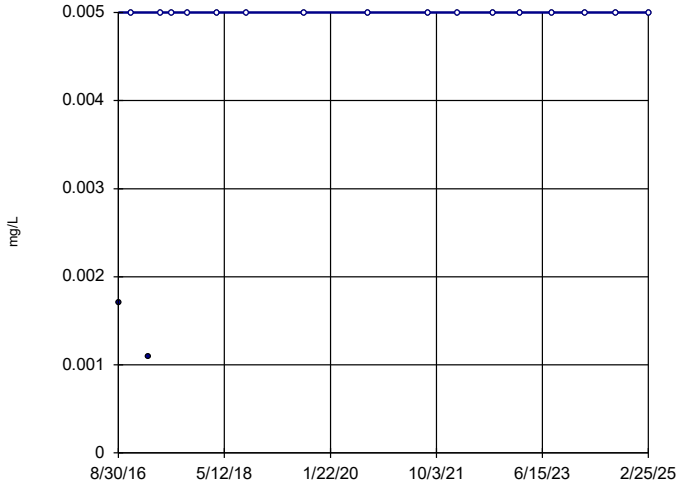
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 7/7/2025 3:07 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-47 (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = 29 critical = 53

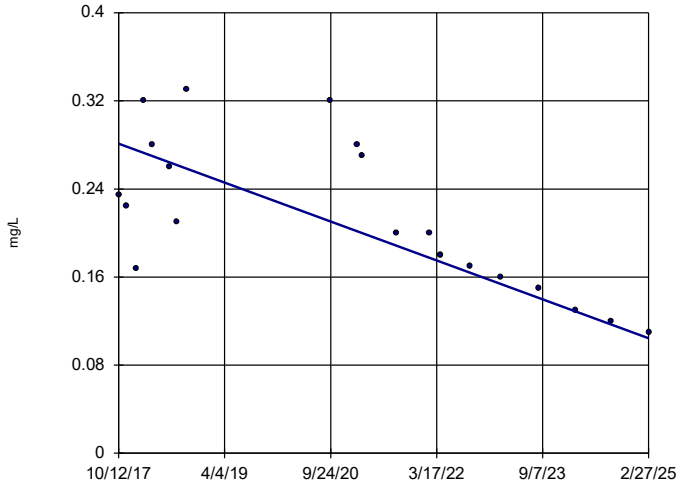
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 7/7/2025 3:07 PM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Yates AMA-R6

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Sen's Slope Estimator

PZ-37



n = 21

Slope = -0.02392 units per year.

Mann-Kendall statistic = -130
critical = -66

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 7/7/2025 3:07 PM View: Appendix IV Trend Tests

Plant Yates Client: Southern Company Data: Yates AMA-R6

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