ARCADIS

Georgia Power

2025 Semiannual Groundwater Monitoring and Corrective Action Report

Plant Yates – Ash Pond 2
Newnan, Georgia

August 31, 2025



2025 Semiannual Groundwater Monitoring and Corrective Action Report

Plant Yates – Ash Pond 2
Newman, Georgia

August 31, 2025

Prepared By:
Arcadis U.S., Inc.
2839 Paces Ferry Road, Suite 1000
Atlanta
Georgia 30339
Phone: 770 431 8666
Fax: 770 435 2666

Prepared For:
Georgia Power Company
Newnan, Georgia
Coweta County



Alexandra Simpson
Senior Geologist



Geoff Gay, PE
Technical Expert (Eng), Vice President

Summary

This summary of the 2025 Semiannual Monitoring and Corrective Action Report provides the status of groundwater monitoring and corrective action program from January to June 2025 at Georgia Power Company's (Georgia Power's) Plant Yates Ash Pond (AP) AP-2 (the Site). Arcadis U.S., Inc. (Arcadis) prepared this summary on behalf of Georgia Power to meet the requirements listed in Part A, Section 6[1] of the U.S. 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 materials resulting from power generation have historically been transferred and stored at the Site. CCR Removal and the six-inch over dig for verification have been completed at Plant Yates AP-2. On July 11, 2023, the Georgia Environmental Protection Division (GAEPD) approved CCR permit (038-018D (CCR)) for Plant Yates AP-2. EPD acknowledged final removal of CCR at AP-2 on February 19, 2024.

Groundwater at the Site is monitored using a comprehensive 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 15, 2018.

During the 2025 reporting period, Arcadis conducted a groundwater sampling event in February. Groundwater samples were submitted to Pace Analytical Services, LLC, for analysis. Per the CCR rule, groundwater results for February 2025 data were evaluated in accordance with the certified statistical methods. That evaluation showed statistically significant values of Appendix III[2] parameters in wells provided in the table below. There were no statistically significant levels (SSLs) detected for Appendix IV[3] parameters[4]. During the 2025 semiannual reporting period, the Site remained in assessment monitoring.

Appendix III Parameter	February 2025
Boron	YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S, YGWC-29IB
Chloride	YGWC-26I, YGWC-26S, YGWC-27I, YGWC-28S

Based on review of the Appendix III and Appendix IV statistical results completed for the groundwater monitoring and corrective action program for January to June 2025, the Site will continue in assessment monitoring. Georgia Power will continue routine groundwater monitoring and reporting at the Site. Reports will be posted to the website and provided to GAEPD semiannually.

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

Contents

Summary i

Acronyms and Abbreviations iv

Professional Certification v

1 Introduction 1

1.1 Background 1

1.2 Regional Geology and Hydrogeologic Setting 1

1.3 Groundwater Monitoring Well Network and CCR Unit Description 2

2 Groundwater Monitoring 3

2.1 Monitoring Well Maintenance 3

2.2 Assessment Monitoring 3

3 Sampling Methodology and Analysis 3

3.1 Groundwater Flow Direction, Gradient, and Velocity 3

3.2 Groundwater Sampling 4

3.3 Laboratory Analyses 5

3.4 Data Quality Assurance/Quality Control and Validation 5

4 Statistical Analysis 6

4.1 Statistical Methods 6

4.1.1 Appendix III Statistical Methods 6

4.1.2 Assessment Monitoring Statistical Methods 6

4.2 Statistical Analysis Results 7

4.2.1 Appendix III Monitoring Constituents 7

4.2.2 Appendix IV Assessment Monitoring Constituents 8

5 Monitoring Program Status 8

6 Conclusions and Future Actions 8

7 References 8

Tables

Table 1. Monitoring Network Well Summary

Table 2. Groundwater Sampling Plan

Table 3. Summary of Groundwater Elevations – February 2025

Table 4. Groundwater Flow Velocity Calculations – February 2025

Table 5. Summary of Groundwater Monitoring Parameters

Table 6a. Groundwater Analytical Data – February 2025

Table 6b. Upgradient Groundwater Analytical Data – February 2025

Table 7. Background Levels and Groundwater Protection Standards

Figures

Figure 1. Site Location Map

Figure 2. Plant Yates CCR Removal Areas

Figure 3. Well Location Map

Figure 4. Sitewide Groundwater Elevation Map – February 2025

Figure 5. Groundwater Elevation Map – February 2025

Appendices

A Field Sampling Forms

B Analytical Laboratory and Data Validation Reports

C Statistical Analysis

Acronyms and Abbreviations

Arcadis	Arcadis, Inc.
AP	Ash Pond
CCR	Coal Combustion Residuals
CFR	Code of Federal Regulations
DO	dissolved oxygen
GAEPD	Georgia Environmental Protection Division
GPC	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
TDS	total dissolved solids
USEPA	United States Environmental Protection Agency

Professional Certification

This 2025 Semiannual Groundwater Monitoring and Corrective Action Report, Plant Yates Ash Pond 2 (AP-2) has been prepared in compliance with the United States Environmental Protection Agency Coal Combustion Residual Rule (40 Code of Federal Regulations [CFR] 257 Subpart D), specifically § 257.90(e), and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10 by a qualified groundwater scientist or engineer with 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. Date
Technical Expert (Eng), Vice President
Georgia Registration No. PE 27801

1 Introduction

This 2025 Semiannual Groundwater Monitoring and Corrective Action Report documents groundwater monitoring conducted at the Georgia Power Company (GPC) Plant Yates Ash Pond (AP) AP-2 (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 Rules are cited within this report.

This report presents the results from the semiannual monitoring for Appendix III and IV constituents conducted in February 2025 in accordance with 40 CFR § 257.95.

1.1 Background

Plant Yates is located on 708 Dyer Road, on the east bank of the Chattahoochee River in Coweta County, Georgia near the Coweta and Carroll County line, 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 on **Figure 2.** The layout of Plant Yates, the monitoring well network, and other Site features is shown on **Figure 3**.

A permit application to comply with GAEPD rules was approved on July 11, 2023 (038-018D (CCR)). CCR Removal and the six-inch over dig for verification have been completed at Plant Yates AP-2. A certification of removal was submitted to GA EPD on November 18, 2023. EPD acknowledged final removal of CCR at AP-2 on February 19, 2024. AP-2 was placed in an assessment monitoring program based on results of the 2017 Annual Groundwater and Corrective Action Monitoring Report, which was implemented on January 15, 2018. A notice of assessment monitoring was placed in the operation record on May 15, 2018. Semiannual monitoring for the CCR unit is performed in accordance with the monitoring requirements 40 CFR § 257.90 through 257.95 of the Federal CCR Rule and the GAEPD rules for Solid Waste Management 391-3-4-.10(6)(a).

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 photos of the Plant Yates area (ACC 2023).

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. The average depth of the water table at Plant Yates varies with topography, ranging from approximately 5 to 50 feet below ground surface. 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 is typically in a range from 10^{-3} to 10^{-4} centimeters per second based on multiple rising-head and falling-head slug tests (ACC 2023). 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 groundwater monitoring system was installed within the uppermost aquifer at the Site. The monitoring system is designed to monitor groundwater passing the waste boundary of the CCR Unit 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 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 "D" indicates upper bedrock. The CCR unit AP-2 was established along a topographically low area formed by an unnamed tributary. Based on the Site hydrogeology, the monitoring system is designed to monitor groundwater flow in the overburden, the transition zone, and the upper bedrock. The monitoring well network for the Site is illustrated on **Figure 3**.

2 Groundwater Monitoring

Pursuant to 40 CFR § 257.90(e), the following describes monitoring-related activities performed in February 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 certified monitoring system shown on **Figure 3**.

Table 2 summarizes the groundwater sampling event conducted by Arcadis at AP-2 during this semiannual reporting period. During the February 2025 event, groundwater samples were collected and analyzed for both 40 CFR 257 Appendix III and 40 CFR 257 Appendix IV constituents to meet the requirement of 40 CFR § 257.95(b). Field sampling logs are provided in **Appendix A**.

2.1 Monitoring Well Maintenance

Monitoring well-related activities were limited to visual inspection of well conditions before sampling, recording the site conditions, and performing exterior maintenance necessary for sampling under safe and clean conditions. Details regarding the wells are included in **Table 1,** and locations are presented on **Figure 3**.

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)). In February 2025, monitoring wells were inspected to identify the need for corrective actions as documented in **Appendix A**. There were no maintenance issues during this period that required corrective action.

2.2 Assessment Monitoring

AP-2 was placed in an assessment monitoring program based on results of the 2017 Annual Groundwater and Corrective Action Monitoring Report, which was implemented on January 15, 2018. A notice of assessment monitoring was placed in the operation record on May 15, 2018. Monitoring wells at AP-2 were sampled for Appendix III and Appendix IV parameters in February 2025 pursuant to 40 CFR § 257.95(b) and 40 CFR § 257.95(d)(1). A summary of the groundwater sampling event is provided in **Table 2**.

3 Sampling Methodology and Analysis

Groundwater monitoring methods at the Site are described in the following sections.

3.1 Groundwater Flow Direction, Gradient, and Velocity

Before each sampling event, static water levels were recorded from piezometers and wells at AP-2 as noted in **Table 3**. Saprolite and transition zone groundwater elevation data were used to prepare potentiometric surface elevation contour maps from the February 2025 gauging event. A sitewide potentiometric surface map for February 2025 is provided on **Figure 4**. The AP-2 potentiometric surface map for February 2025 is provided on **Figure 5**. The groundwater flow direction for the saprolite and transition zone wells is generally northeast, southwest, and west toward AP-2 where it flows west to the Chattahoochee River. The groundwater flow direction is consistent with historical patterns. 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).

Calculated groundwater flow velocities for February 2025 are presented in **Table 4**. The calculated average groundwater linear flow velocity for February 2025 was approximately 26 feet per year. The calculated groundwater velocity across the Site is generally consistent with historical calculations and with expected velocities in the site-specific geology; thereby, confirming the groundwater monitoring network is properly located to monitor the uppermost aquifer.

3.2 Groundwater Sampling

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

An AquaTroll™ 600 (In-Situ field instrument) was used to monitor and record field water quality parameters (pH, conductivity, and dissolved oxygen [DO]) during well purging to verify stabilization before 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 units for pH;
- ± 5% for specific conductance;
- Turbidity measurements less than 5 nephelometric turbidity units; and
- ±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 sample containers with preservative (where applicable). The samples were placed on ice in an insulated cooler following their collection.

The samples were submitted to Pace Analytical Services, LLC following chain-of-custody protocol. Stabilization logs for each well and daily equipment calibration records 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-2 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 events. Analytical methods used for groundwater sample analysis are listed on the analytical laboratory reports, along with chain-of-custody records included in **Appendix B**.

Analytical data from AP-2 and the upgradient wells collected in February 2025 in compliance with the CCR Rule, along with additional geochemical parameters (i.e., alkalinity, cations) collected during the February 2025 event, are summarized in **Tables 6a and 6b**. 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.

3.4 Data Quality Assurance/Quality Control and Validation

During each sampling event, quality assurance/quality control (QA/QC) samples were collected at a rate of one per 10 samples. QA/QC samples included equipment blanks (where non-dedicated equipment is used), field blanks, and duplicate samples. Groundwater quality data in this report were validated in accordance with USEPA guidance (USEPA 2011) and the analytical methods. Data validation generally consisted of reviewing sample integrity, holding times, laboratory method blanks, laboratory control samples, matrix spikes/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 February 2025 data validation reports 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.

Values followed by a "J" flag indicate 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 was performed on data from the assessment monitoring events pursuant to 40 CFR §§ 257.93–95 following the established, certified statistical methods. The statistical method used at 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 the statistical analyses. Sanitas™ is a decision support software package that incorporates the statistical tests required of Subtitle C and D facilities by USEPA regulations and guidance as recommended in the 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 exhibiting 100 percent non-detects.
- When data contained less than 15 percent non-detects in background, 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

Parametric tolerance limits were used to calculate background limits from pooled upgradient well data from 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 are were used. The confidence and coverage levels for non-parametric tolerance limits depend on the number of background samples. The background limits were then used

when determining the Groundwater Protection Standards (GWPS) established under 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 GWPSs for cobalt, lead, lithium, and molybdenum. As described in § 257.95(h)(1-3), the GWPS is defined by the criteria below. 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.
- The background level for constituents for which the background level is higher than the MCL or rule identified GWPS.

GWPS have been established for statistical comparison of Appendix IV constituents at AP-2. **Table 7** summarizes the background levels established at the monitoring well for the February 2025 sampling event along with the GWPS.

To complete the statistical comparison to GWPS, confidence intervals were constructed for each of the Appendix IV parameters in each downgradient well. Those confidence intervals were compared to the GWPS 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, a statistically significant level (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 to determine whether concentrations statistically exceed the established GWPS. Appendix III and Appendix IV data from the February 2025 semiannual event were statistically analyzed in accordance with the Statistical Analysis Plan (Groundwater Stats 2019).

4.2.1 Appendix III Monitoring Constituents

Based on review of the Appendix III statistical analysis from the February 2025 sampling event presented in **Appendix C**, Appendix III concentrations have not returned to background levels, and assessment monitoring should continue pursuant to 40 CFR § 257.95(f). A table summarizing these constituents and wells is provided in **Appendix C**.

4.2.2 Appendix IV Assessment Monitoring Constituents

Statistical analysis of the February 2025 Appendix IV data was completed using the GWPS established according to both 40 CFR § 257.95(h) and GAEPD Rule 391-3-4-.10(6)(a). No SSLs were identified. Sanitas™ statistical output data for calculation of site-specific background concentrations and confidence intervals for each Appendix IV constituent in downgradient wells are provided in **Appendix C**.

5 Monitoring Program Status

In accordance with 40 CFR § 257.94(e), an assessment monitoring program was implemented in January 2018. No statistical exceedance of a GWPS for Appendix IV parameters has been identified. Pursuant to 40 CFR § 257.96(b), GPC will continue to monitor groundwater at AP-2 in accordance with the assessment monitoring program regulations of 40 CFR § 257.95 due to SSIs for Appendix III parameters.

6 Conclusions and Future Actions

Statistical evaluations of the groundwater monitoring data for the Site identified no exceedance of a GWPS for an Appendix IV constituent during the February 2025 sampling event. The next assessment monitoring event is scheduled for August 2025. The August 2025 semiannual monitoring event will include sampling and analysis of all Appendix III and IV constituents.

7 References

ACC. 2023. *Plant Yates, Ash Pond 2 – Hydrogeologic Assessment Report*. Prepared for Georgia Environmental Protection Division. February 2023.

Driscoll, Fletcher G. 1986. *Groundwater and Wells*. Johnson Screens, Saint Paul, Minnesota. 1089 pp.

Freeze, R.A. and Cherry, J.A. 1979. *Groundwater*. Prentice-Hall, Englewood Cliffs, New Jersey. 604 pp.

Groundwater Stats Consulting. 2019. *Statistical Analysis Plan – Plant Yates Ash Pond 2*. Prepared for Georgia Environmental Protection Division.

Harned, D.A., and Daniel D.D., III, 1992. The transition zone between bedrock and saprolite – Conduit for contamination? Ground water in the Piedmont – Proceedings of a conference on ground water in the Piedmont of the eastern United States: Clemson, S.C. p. 336-348.

Newell, C.J., L.P. Hopkins, and P.B. Bedient. 1990. A Hydrogeologic Database for Ground-Water Modeling. *Ground Water. 28(5)*:703-714.

State Waste Management Board. 2016. State Solid Waste Management Regulations – (9VAC20 81 et seq.). January.

USEPA. 1989. RCRA Facility Investigation (RFI) Guidance, Interim Final, Vol I. [EPA 530/SW-89-031], OWSER Directive 9502.00-6D.

USEPA. 2009. Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance. Office of Resource Conservation and Recovery – Program Implementation and Information Division. March.

USEPA. 2011. Data Validation Standard Operating Procedures. Science and Ecosystem Support Division. Region IV. Athens, GA. September.

USEPA. 2017. National Functional Guidelines for Inorganic Superfund Methods Data Review. Office of Superfund Remediation and Technology Innovation. OLEM 9355.0-135 [EPA-540-R-2017-001]. Washington, DC. January.

Tables

Table 1
Monitoring Network Well Summary
2025 Semiannual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - AP-2

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-26S	Detection	Downgradient	1259734.66	2070615.87	713.1	716.28	686.40	676.40	40.18	Saprolite	10/1/2015
YGWC-26I	Detection	Downgradient	1259725.79	2070613.56	713.1	715.91	656.40	646.40	69.81	PWR/Transition Zone	9/30/2015
YGWC-27S	Detection	Downgradient	1259417.12	2070454.17	713.0	716.52	686.30	676.30	40.52	Saprolite	10/7/2015
YGWC-27I	Detection	Downgradient	1259423.73	2070460.89	713.2	716.19	646.50	636.50	79.99	PWR/Transition Zone	10/7/2015
YGWC-28S	Detection	Downgradient	1259218.37	2070322.23	715.0	717.95	683.30	673.30	44.95	Saprolite	10/5/2015
YGWC-28I	Detection	Downgradient	1259226.47	2070328.27	715.0	717.93	658.30	648.30	69.93	PWR/Transition Zone	10/5/2015
YGWC-29IB	Detection	Downgradient	1259036.39	2070237.53	710.0	712.88	682.00	672.00	41.18	PWR/Transition Zone	12/14/2023
PZ-1S	Piezometer	Downgradient	1256871.97	2070101.24	834.5	836.84	810.80	800.80	36.34	Saprolite	5/20/2014
PZ-3S	Piezometer	Downgradient	1256410.86	2072021.63	794.0	796.39	764.30	754.30	42.39	Saprolite	5/20/2014
PZ-13S	Piezometer	Downgradient	1257849.98	2069810.25	805.5	807.79	774.30	764.30	43.79	Saprolite	5/20/2014
PZ-13I	Piezometer	Downgradient	1257850.30	2069817.10	805.4	807.62	758.70	748.70	59.22	PWR/Transition Zone	5/20/2014
PZ-14I	Piezometer	Downgradient	1257826.16	2072542.59	747.2	749.06	708.50	698.50	50.86	PWR/Transition Zone	5/20/2014
PZ-25I	Piezometer	Downgradient	1258860.75	2073491.10	763.8	766.38	692.10	682.10	84.58	PWR/Transition Zone	09/03/2015
PZ-25S	Piezometer	Downgradient	1258856.99	2073497.99	763.8	766.60	720.10	710.10	56.8	Saprolite	09/02/2015
PZ-31S	Piezometer	Downgradient	1258313.70	2072820.25	735.9	738.62	714.02	704.02	34.72	Saprolite	9/24/2015

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
Georgia Power Company
Plant Yates - AP-2

Well ID	Hydraulic Location	Semiannual Monitoring [1]
		February 25 - 27, 2025
YGWA-4I	Upgradient [2]	X
YGWA-5I	Upgradient [2]	X
YGWA-5D	Upgradient [2]	X
YGWA-17S	Upgradient [2]	X
YGWA-18S	Upgradient [2]	X
YGWA-18I	Upgradient [2]	X
YGWA-20S	Upgradient [2]	X
YGWA-21I	Upgradient [2]	X
YGWA-39	Upgradient [2]	X
YGWA-40	Upgradient [2]	X
YGWA-47	Upgradient [2]	X
YGWA-1I	Upgradient	X
YGWA-1D	Upgradient	X
YGWA-2I	Upgradient	X
YGWA-3I	Upgradient	X
YGWA-3D	Upgradient	X
YGWA-14S	Upgradient	X
YGWA-30I	Upgradient	X
YGWC-26S	Downgradient	X
YGWC-26I	Downgradient	X
YGWC-27S	Downgradient	X
YGWC-27I	Downgradient	X
YGWC-28S	Downgradient	X
YGWC-28I	Downgradient	X
YGWC-29IB	Downgradient	X

Notes:

1. All wells analyzed for Appendix III and Appendix IV.

2. Wells from other units comprising sitewide pooled upgradient network.

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
Georgia Power Company
Plant Yates - AP-2

Well ID	Date	TOC Elevation (ft)	Depth to Water (bTOC)	Groundwater Elevation (ft)
Downgradient Wells				
YGWC-26S	2/24/2025	716.28	23.65	692.63
YGWC-26I	2/24/2025	715.91	24.98	690.93
YGWC-27S	2/24/2025	716.52	27.55	688.97
YGWC-27I	2/24/2025	716.19	27.70	688.49
YGWC-28S	2/24/2025	717.95	26.23	691.72
YGWC-28I	2/24/2025	717.93	26.77	691.16
YGWC-29IB	2/24/2025	712.88	24.72	688.16
PZ-01S	2/24/2025	836.84	34.08	802.76
PZ-03S	2/24/2025	796.39	38.82	757.57
PZ-13S	2/24/2025	807.79	37.16	770.63
PZ-13I	2/24/2025	807.62	40.58	767.04
PZ-14I	2/24/2025	749.06	17.14	731.92
PZ-25S	2/24/2025	766.60	36.97	729.63
PZ-25I	2/24/2025	766.38	39.22	727.16
PZ-31S	2/24/2025	738.62	16.41	722.21
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	786.90
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
Georgia Power Company
Plant Yates - AP-2

Equation

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

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

Values Used in Calculation

Value			Source
K_{max}:	3.02E-03	cm/sec	See note 1
	8.57	ft/day	
K_{min}:	1.00E-06	cm/sec	
	0.003	ft/day	
K_{avg}	1.50E-04	cm/sec	
	0.43	ft/day	
Distance from:			
PZ-01S to YGWA-14S	2,610	feet	
PZ-13S to YGWC-27S	1,699	feet	
YGWA-14S to PZ-31S	575	feet	
Groundwater Elevation			**Date Collected:**
PZ-01S	802.76	feet	February 2025
YGWA-14S	732.85		
PZ-13S	770.63		
YGWC-28I	691.16		
YGWA-14S	732.85		
PZ-31S	722.21		
			Hydraulic gradient from:
i_1 = 0.027		unitless	PZ-01S to YGWA-14S (Feb. 2025)
i_2 = 0.047		unitless	PZ-13S to YGWC-27S (Feb. 2025)
i_3 = 0.019		unitless	YGWA-14S to PZ-31S (Feb. 2025)
i_{avg} = 0.031		unitless	Average
n_e = 0.20		unitless	See note 2

Minimum Linear Flow Velocity
February 2025

$$V_{min} = \frac{(0.003)\,(0.033)}{0.20}$$

Maximum Linear Flow Velocity
February 2025

$$V_{max} = \frac{(8.57)\,(0.033)}{0.20}$$

V_{min} = 0.0005 ft/day, or 0.18 ft/year
V_{max} = 1.4 ft/day, or 511 ft/year

Average Linear Flow Velocity
February 2025

$$V_{avg} = \frac{(0.43)(0.033)}{0.2}$$

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

Notes:

1. Slug tests performed by Atlantic Coast Consulting, Inc. at AP-2 (2014-2017)
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
Georgia Power Company
Plant Yates AP-2

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
AP-2 Groundwater Analytical Data - February 2025
2025 Semiannual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - AP-2

Analyte	Units	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
		2/27/2025	2/27/2025	2/26/2025	2/27/2025	2/26/2025	2/26/2025	2/26/2025
Appendix III								
pH	SU	5.85	5.54	6.63	6.23	6.67	6.45	5.94
Boron	mg/l	0.75	0.78	2.1	0.94	1.9	2.5	0.92
Calcium	mg/l	15.7	10.2	25.9	20.7	29.7	28.4	11.1
Chloride	mg/l	14.8	13.5	11.6	11.8	10.1	16.3	9.7
Fluoride	mg/l	0.087 J	0.069 J	0.059 J	0.12	0.067 J	0.13	0.059 J
Sulfate	mg/l	77.5	83.3	4.0	12.4	8.8	2.0	40.9
Total Dissolved Solids	mg/l	213	181	186	133	202	217	148
Appendix VI								
Antimony	mg/l	< 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	< 0.0012	< 0.0012
Barium	mg/l	0.058	0.026	0.063	0.050	0.066	0.20	0.080
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	< 0.00012	0.00014 J	< 0.00012	0.00013 J
Chromium	mg/l	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012	< 0.0012
Cobalt	mg/l	< 0.0012	< 0.0012	0.014	0.0017 J	< 0.0012	< 0.0012	0.0063
Fluoride	mg/l	0.087 J	0.069 J	0.059 J	0.12	0.067 J	0.13	0.059 J
Lead	mg/l	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025	< 0.00025
Lithium	mg/l	0.00800 J	< 0.000600	0.00778 J	< 0.000600	0.00668 J	< 0.000600	0.00486 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	0.179 U	0.425 U	2.96	0.614 U	0.755 U	1.16 U	1.30 U
Selenium	mg/l	0.0047 J	< 0.0012	< 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 $CaCO_3$	31.2	15.2	131	98.3	153	164	55.5
Alkalinity, Bicarbonate	mg/L as $CaCO_3$	31.2	15.2	131	98.3	153	164	55.5
Alkalinity, Carbonate	mg/L as $CaCO_3$	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Magnesium	mg/L	11.1	14.8	14.9	7.7	17.1	21.0	11.7
Potassium	mg/L	2.2	0.70	4.0	1.5	5.7	3.8	3.6
Sodium	mg/L	21.9	17.6	11.3	17.1	9.3	10.9	15.5

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-2

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-2

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-2

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
Georgia Power Company
Plant Yates - AP-2

Constituent	Units	Background [1]	GWPS
August 2024			
Antimony	mg/L	0.0047	0.006
Arsenic	mg/L	0.005	0.010
Barium	mg/L	0.21	2.00
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	1.100	4.00
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).

CFR = Code of Federal Regulations

MCL = Maximum Contaminant Level

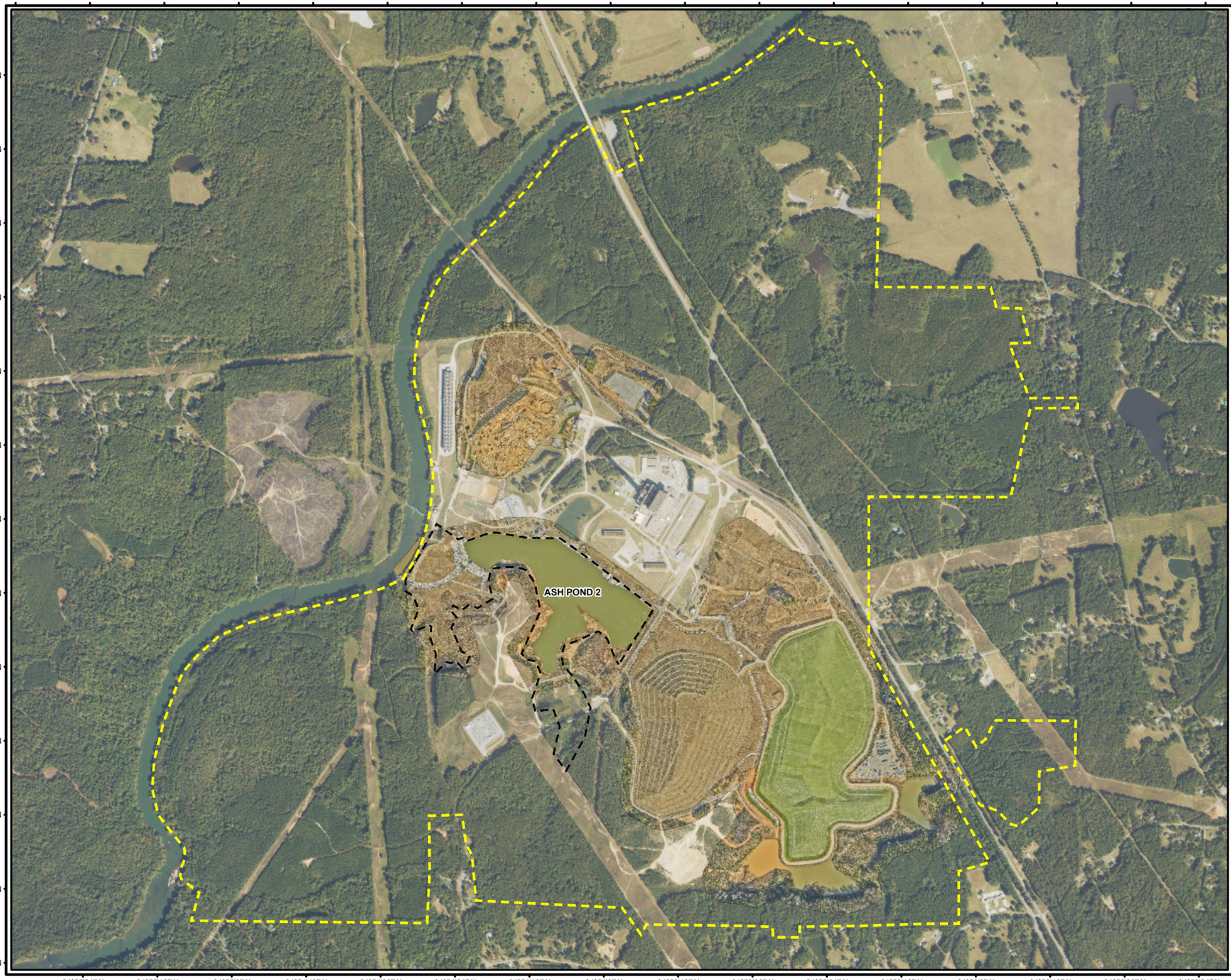
mg/L = millgrams per liter

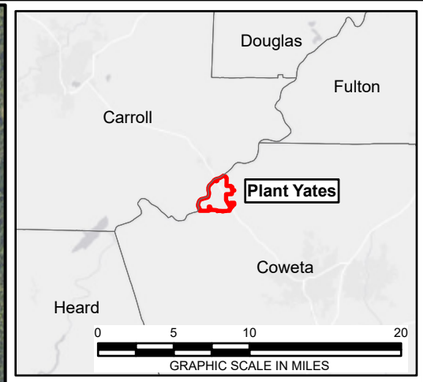
pCi/L = picocuries per liter

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-2
NEWNAN, GA
2025 SEMIANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

SITE LOCATION MAP

ARCADIS

FIGURE
1

84°54'50"W 84°54'40"W 84°54'30"W 84°54'20"W 84°54'10"W 84°54'0"W 84°53'50"W 84°53'40"W 84°53'30"W 84°53'20"W 84°53'10"W 84°53'0"W 84°52'50"W

33°28'12"N
33°28'6"N
33°28'0"N
33°27'54"N
33°27'48"N
33°27'42"N
33°27'36"N
33°27'30"N
33°27'24"N
33°27'18"N
33°27'12"N
33°27'6"N
33°27'0"N
33°26'54"N
33°26'48"N



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-2
NEWNAN, GA
2025 SEMIANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

PLANT YATES CCR REMOVAL AREAS

ARCADIS

FIGURE
2

84°54'50"W 84°54'40"W 84°54'30"W 84°54'20"W 84°54'10"W 84°54'0"W 84°53'50"W 84°53'40"W 84°53'30"W 84°53'20"W 84°53'10"W 84°53'0"W 84°52'50"W

33°28'6"N
33°28'0"N
33°27'54"N
33°27'48"N
33°27'42"N
33°27'36"N
33°27'30"N
33°27'24"N
33°27'18"N
33°27'12"N
33°27'6"N
33°27'0"N
33°26'54"N
33°26'48"N

YGWA-47
YGWC-26S
YGWC-26I
YGWC-27I
YGWC-27S
YGWC-28I
YGWC-28S
YGWC-29IB
ASH POND 2
PZ-25I
PZ-25S
YGWA-30I
PZ-31S
PZ-13S
PZ-13I
PZ-14I
YGWA-14S
YGWA-17S
YGWA-18S
YGWA-18I
PZ-01S
YGWA-1I
YGWA-1D
PZ-03S
YGWA-3I
YGWA-3D
YGWA-2I
YGWA-40
YGWA-39
YGWA-21I
YGWA-20S
YGWA-4I
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

NOTE:
1. YGWC-29I WAS ABANDONED ON OCTOBER 17, 2022. REPLACEMENT WELL YGWC-29IA WAS INSTALLED THE WEEK OF JANUARY 9, 2023.
2. AERIAL IMAGE SOURCES: JANUARY 2, 2025 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2023 IMAGERY.

0 437.5 875 1,750
GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

Georgia Power
PLANT YATES AP-2
NEWNAN, GA
2025 SEMIANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

WELL LOCATION MAP

ARCADIS

FIGURE
3

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 84°52'40"W

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 33°26'40"N

YGWA-47 722.62
YGWC-52 717.36
PZ-09I 695.14
PZ-09S 695.27
YGWC-44 707.67
YGWC-45 697.23
FORMER ASH POND 1
PZ-53 695.17
YGWC-46A 695.19
PZ-10I 689.00
PZ-10S 693.83
YGWA-6S 761.51
PZ-06D 758.34
YGWA-6I 761.47
PZ-48 757.31
YGWC-26S 692.63
YGWC-26I 690.93
YGWC-49 749.58
YGWC-27S 688.97
YGWC-27I 688.49
YGWC-28I 691.16
YGWC-28S 691.72
YGWC-24SB 739.75
FORMER ASH POND A
YGWC-29IB 688.16
PZ-24IB 740.20
PZ-25I 727.16
PZ-25S 729.63
PZ-35 735.83
YAMW-1 736.35
ASH POND 2
YGWA-30I 719.61
YGWC-36A 732.63
ASH POND B
PZ-31S 722.21
YGWC-50 725.43
PZ-13S 770.63
PZ-13I 767.04
PZ-14I 731.92
YGWA-14S 732.85
PZ-51 736.90
YGWC-43 728.89
ASH POND B'
YGWA-17S 770.86
PZ-55 745.81
PZ-54D 730.17
R6 ASH DISPOSAL AREA
YGWA-18S 769.25
YGWA-18I 766.27
PZ-01S 802.76
YGWA-1I 797.51
YGWA-1D 786.90
YAMW-3 758.75
PZ-56D 752.58
YGWC-42 768.13
YAMW-2 758.24
PZ-37 749.70
PZ-37D 757.85
PZ-52D 755.48
PZ-53D 757.97
YGWC-23S 748.11
ASH POND 3
YGWA-3I 744.21
PZ-03S 757.57
YGWA-3D 791.62
YAMW-4 771.81
YGWC-41 773.61
YAMW-5 772.61
YGWA-2I 819.57
YGWC-38 768.29
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

700 710 720 730 740 750 760 770 780 790 800 810 820

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

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-2
NEWNAN, GA
2025 SEMIANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

SITEWIDE GROUNDWATER ELEVATION MAP FEBRUARY 2025

ARCADIS

FIGURE 4

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

33°27'40"N
33°27'36"N
33°27'32"N
33°27'28"N
33°27'24"N
33°27'20"N
33°27'16"N
33°27'12"N
33°27'8"N
33°27'4"N

YGWC-26S 692.63
YGWC-26I 690.93
YGWC-27I 688.49
YGWC-27S 688.97
YGWC-28I 691.16
YGWC-28S 691.72
YGWC-29IB 688.16
YGWA-30I 719.61
PZ-25I 727.16
PZ-25S 729.63
PZ-31S 722.21
PZ-14I 731.92
YGWA-14S 732.85
PZ-13S 770.63
PZ-13I 767.04
YGWA-1I 797.51
PZ-01S 802.76
YGWA-1D 786.90
PZ-03S 757.57
YGWA-3I 744.21
YGWA-3D 791.62
YGWA-2I 819.57

690 700 710 720 730 740 750 760 770 780 790 800 810 820

ASH POND 2

ASH MANAGEMENT AREA

R6 ASH DISPOSAL AREA

LEGEND

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

690.92 GROUNDWATER ELEVATION (FEET)

GEORGIA REGISTERED No. PE027801 PROFESSIONAL ENGINEER JOHN C. TAYLOR

NOTES:

1. SHALLOW GROUNDWATER ELEVATIONS ARE DERIVED FROM SOIL COMPRISED OF SAPROLITE, RANGING FROM 15 - 60 FEET BELOW GROUND SURFACE.

2. BEDROCK WELL GROUNDWATER ELEVATIONS NOT USED FOR CONTOURING.

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.

0 200 400 800
GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

Georgia Power
PLANT YATES AP-2
NEWNAN, GA
2025 SEMIANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

GROUNDWATER ELEVATION MAP FEBRUARY 2025

ARCADIS

FIGURE **5**

Appendix A

Field Sampling 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:	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
PZ-3S	2/24/2025	08:49:00	38.82	42.39	--
PZ-1S	2/24/2025	09:00:00	34.08	36.34	--
PZ-13S	2/24/2025	09:08:00	37.16	43.79	--
PZ-13I	2/24/2025	09:10:00	40.58	59.22	--
PZ-31S	2/24/2025	09:24:00	16.41	34.72	--
PZ-14I	2/24/2025	09:32:00	17.14	50.86	--
PZ-25S	2/24/2025	10:05:00	36.97	56.80	--
PZ-25I	2/24/2025	10:09:00	39.22	84.58	--
YGWC-29IB	2/24/2025	10:22:00	24.72	40.88	--
YGWC-28S	2/24/2025	10:29:00	26.23	44.95	--
YGWC-28I	2/24/2025	10:31:00	26.77	69.93	--
YGWC-27I	2/24/2025	10:34:00	27.70	79.99	--
YGWC-27S	2/24/2025	10:36:00	27.55	40.52	--
YGWC-26S	2/24/2025	10:41:00	23.65	40.18	--
YGWC-26I	2/24/2025	10:43:00	24.98	69.81	--

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 2/26/2025 8:11:35 PM +00:00

Project Number	30113037	**Well ID**	YGWC-28S			**Date**	2/26/2025
Project Location	AP-2		**Weather(°F)**	69.6 degrees F and Clear. The wind is blowing N/NE at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	34.65	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	26.67	**Total Depth (ft-bmp)**	44.95	**Water Column(ft)**	18.28	**Gallons in Well**	2.97
MP Elevation	717.95	**Pump Intake (ft-bmp)**	40	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	13:35	**Well Volumes Purged**	0.47	**Sample ID**	YAT-YGWC-28S	**Sampled by**	David Prouty
Purge Start	12:33	**Gallons Purged**	1.38	**Replicate/ Code No.**		**Color**	Yellow
Purge End	14:33						

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)
12:33:00	00:00	100	26.83	6.42	410.92	14.20	2.26	20.60	-58.23
12:35:00	02:25	100	26.8	6.42	424.57	7.72	1.16	20.40	-66.81
12:40:00	07:25	100	26.78	6.36	440.14	5.17	0.49	20.30	-75.35
12:45:00	12:25	100	26.78	6.32	438.49	17.50	0.60	20.00	-73.35
12:50:00	17:25	100	26.78	6.31	443.98	14.70	0.62	20.10	-73.90
12:55:00	22:25	100	26.78	6.35	446.72	10.30	0.53	20.30	-78.12
13:00:00	27:25	100	26.78	6.39	445.66	9.04	0.53	20.20	-80.82
13:05:00	32:25	100	26.78	6.38	446.60	7.69	0.51	20.20	-81.23
13:10:00	37:25	100	26.78	6.41	447.09	5.95	0.46	20.20	-84.01
13:15:00	42:25	100	26.78	6.42	447.19	4.64	0.42	20.20	-85.48
13:20:00	47:25	100	26.78	6.43	447.01	4.03	0.42	20.10	-86.81
13:25:00	52:25	100	26.78	6.45	447.88	3.60	0.38	20.30	-89.20

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 YAT-AP2-EB-1 at 1445

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 : 2/26/2025 10:02:34 PM +00:00

Project Number	30113037	**Well ID**	YGWC-28I			**Date**	2/26/2025
Project Location	AP-2		**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)**	59.63	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	27.32	**Total Depth (ft-bmp)**	69.93	**Water Column(ft)**	42.61	**Gallons in Well**	6.92
MP Elevation	717.93	**Pump Intake (ft-bmp)**	64	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	15:35	**Well Volumes Purged**	0.08	**Sample ID**	YAT-YGWC-28I	**Sampled by**	David Prouty
Purge Start	15:06	**Gallons Purged**	0.53	**Replicate/ Code No.**	YAT- AP2-FD-1	**Color**	Clear
Purge End	16:39						

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)
15:06:00	00:00	100	28	6.96	323.25	3.69	3.18	22.10	142.05
15:11:00	05:00	100	28	6.85	317.83	0.78	1.95	21.90	187.31
15:16:00	10:00	100	28	6.74	314.07	0.38	0.82	21.20	192.97
15:21:00	15:00	100	28	6.70	308.31	0.22	0.49	21.20	193.76
15:26:00	20:00	100	28	6.67	305.25	0.27	0.55	21.20	196.39

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: 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 11:18:27 PM +00:00

Project Number	30113037	**Well ID**	YGWC-27I			**Date**	2/26/2025
Project Location	AP-2		**Weather(°F)**	75.9 degrees F and Clear. The wind is blowing SW at 4.7 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	69.69	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	28.7	**Total Depth (ft-bmp)**	79.99	**Water Column(ft)**	51.29	**Gallons in Well**	8.33
MP Elevation	716.19	**Pump Intake (ft-bmp)**	75	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	17:40	**Well Volumes Purged**	0.06	**Sample ID**	YAT-YGWC-27I	**Sampled by**	David Prouty
Purge Start	17:07	**Gallons Purged**	0.53	**Replicate/ Code No.**	YAT-AP2-FB-1	**Color**	Clear
Purge End	18:12						

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)
17:07:00	00:00	100	28.9	6.72	287.50	1.56	1.30	20.00	-3.76
17:12:00	05:00	100	28.91	6.67	300.37	2.84	0.63	20.60	-18.39
17:17:00	10:00	100	28.91	6.66	303.46	2.50	0.48	20.50	-17.18
17:22:00	15:00	100	28.91	6.64	300.74	2.36	0.41	20.40	-10.98
17:27:00	20:00	100	28.91	6.63	293.44	2.29	0.40	20.30	-2.55

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: 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 : 2/27/2025 2:52:38 PM +00:00

Project Number	30113037	**Well ID**	YGWC-27S			**Date**	2/27/2025
Project Location	AP-2		**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)**	30.22	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	28.69	**Total Depth (ft-bmp)**	40.52	**Water Column(ft)**	11.83	**Gallons in Well**	1.92
MP Elevation	716.52	**Pump Intake (ft-bmp)**	35	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	09:20	**Well Volumes Purged**	0.28	**Sample ID**	YAT-YGWC-27S	**Sampled by**	David Prouty
Purge Start	08:52	**Gallons Purged**	0.53	**Replicate/ Code No.**		**Color**	Clear
Purge End	09:47						

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)
8:52:00	00:00	100	28.78	6.72	273.81	3.62	9.62	14.20	205.91
8:57:00	05:00	100	28.78	6.18	253.48	1.57	1.73	17.10	163.76
9:02:00	10:00	100	28.78	6.21	254.10	0.87	0.68	17.50	138.26
9:07:00	15:00	100	28.78	6.23	249.50	0.60	0.57	17.70	127.81
9:12:00	20:00	100	28.78	6.23	247.88	0.48	0.47	17.80	120.30

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: 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 5:41:04 PM +00:00

Project Number	30113037	**Well ID**	YGWC-26S			**Date**	2/27/2025
Project Location	AP-2		**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)**	29.88	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	24	**Total Depth (ft-bmp)**	40.18	**Water Column(ft)**	16.18	**Gallons in Well**	2.63
MP Elevation	716.28	**Pump Intake (ft-bmp)**	37	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	12:00	**Well Volumes Purged**	0.20	**Sample ID**	YAT-YGWC-26S	**Sampled by**	David Prouty
Purge Start	11:35	**Gallons Purged**	0.53	**Replicate/ Code No.**		**Color**	Clear
Purge End	12:28						

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)
11:35:00	00:00	100	24.51	5.73	253.92	1.40	6.54	20.10	172.00
11:40:00	05:00	100	24.85	5.56	250.91	0.55	0.85	20.10	199.30
11:45:00	10:00	100	24.92	5.54	250.49	0.45	0.66	20.10	207.26
11:50:00	15:00	100	25.05	5.54	250.41	0.37	0.59	20.00	207.40
11:55:00	20:00	100	25.1	5.54	250.12	0.55	0.60	20.10	204.95

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: 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 : 3/10/2025 1:28:37 PM +00:00

Project Number	30113037	**Well ID**	YGWC-29IB			**Date**	2/26/2025
Project Location	AP-2		**Weather(°F)**	It is Clear. The wind is blowing undefined at 0.0 mph. 54 degrees			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	30.88	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	25.73	**Total Depth (ft-bmp)**	40.88	**Water Column(ft)**	15.15	**Gallons in Well**	2.46
MP Elevation	712.88	**Pump Intake (ft-bmp)**	24.88	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	10:05	**Well Volumes Purged**	0.21	**Sample ID**	YAT-YGWC-29IB	**Sampled by**	David Prouty
Purge Start	09:38	**Gallons Purged**	0.53	**Replicate/ Code No.**		**Color**	Clear
Purge End	11:05						

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)
9:38:00	00:00	100	25.82	5.97	248.64	7.61	0.89	16.90	183.10
9:43:00	05:00	100	25.88	5.96	249.61	4.24	0.49	17.50	172.42
9:48:00	10:00	100	25.9	5.95	247.54	4.33	0.35	17.90	178.49
9:53:00	15:00	100	25.9	5.95	246.21	3.12	0.41	18.00	172.09
9:58:00	20:00	100	25.9	5.94	246.38	3.10	0.44	18.40	174.14

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: Bio flocculant

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 1:33:42 PM +00:00

Project Number	30113037	**Well ID**	YGWC-26I			**Date**	2/27/2025
Project Location	AP-2		**Weather(°F)**	57.0 degrees F and Clear. The wind is blowing W at 9.2 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	59.51	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	25.5	**Total Depth (ft-bmp)**	69.81	**Water Column(ft)**	44.31	**Gallons in Well**	7.20
MP Elevation	715.91	**Pump Intake (ft-bmp)**	61	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	10:35	**Well Volumes Purged**	0.09	**Sample ID**	YAT-YGWC-26I	**Sampled by**	David Prouty
Purge Start	10:08	**Gallons Purged**	0.66	**Replicate/ Code No.**		**Color**	Clear
Purge End	11:24						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
10:08:00	00:00	100	25.6	6.79	284.20	2.99	8.15	17.60	183.71
10:13:00	05:00	100	25.63	6.07	281.77	1.26	3.09	18.10	-7.47
10:18:00	10:00	100	25.63	5.91	279.52	0.59	1.32	18.50	25.39
10:23:00	15:00	100	25.63	5.86	277.34	0.48	0.98	18.80	74.17
10:28:00	20:00	100	25.63	5.85	276.70	0.43	0.80	18.90	113.49
10:33:00	25:00	100	25.63	5.85	277.59	0.42	0.69	19.00	135.37

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: 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: _____

February 2025 Well Inspection Results
AP-2 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-25S	Y	Y	N	Y	Y	Y	Y	Y	Y
PZ-25I	Y	Y	N	Y	Y	Y	Y	Y	Y
YGWC-29IB	Y	Y	N	Y	Y	Y	Y	Y	Y
YGWC-28S	Y	Y	N	Y	Y	Y	Y	Y	Y
YGWC-28I	Y	Y	N	Y	Y	Y	Y	Y	Y
YGWC-27S	Y	Y	N	Y	Y	Y	Y	Y	Y
YGWC-27I	Y	Y	N	Y	Y	Y	Y	Y	Y
YGWC-26S	Y	Y	N	Y	Y	Y	Y	Y	Y
YGWC-26I	Y	Y	N	Y	Y	Y	Y	Y	Y
PZ-1S	Y	Y	N	Y	Y	Y	N	Y	Y
PZ-13S	Y	Y	N	Y	Y	Y	Y	Y	Y
PZ-13I	Y	Y	N	Y	Y	Y	Y	Y	Y
PZ-31S	Y	Y	N	Y	Y	Y	Y	Y	Y
PZ-14I	Y	Y	N	Y	Y	Y	Y	Y	Y
PZ-3S	Y	Y	Y	Y	Y	Y	Y	Y	Y

February 2025 Well Inspection Results
AP-2 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-25S	Y	Y	Y	Y	Y	Y	
PZ-25I	Y	Y	Y	Y	Y	Y	
YGWC-29IB	Y	Y	Y	Y	Y	Y	
YGWC-28S	Y	Y	Y	Y	Y	Y	
YGWC-28I	Y	Y	Y	Y	Y	Y	
YGWC-27S	Y	Y	Y	Y	Y	Y	
YGWC-27I	Y	Y	Y	Y	Y	Y	
YGWC-26S	Y	Y	Y	Y	Y	Y	
YGWC-26I	Y	Y	Y	Y	Y	Y	
PZ-1S	Y	Y	Y	Y	Y	Y	
PZ-13S	Y	Y	Y	Y	Y	Y	
PZ-13I	Y	Y	Y	Y	Y	Y	
PZ-31S	Y	Y	Y	Y	Y	Y	
PZ-14I	Y	Y	Y	Y	Y	Y	
PZ-3S	Y	Y	Y	Y	Y	Y	Near logging activities. One bollard is slightly bent

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 and Data Validation Reports

Georgia Power Co. – Plant Yates

Data Review Report

Metals, General Chemistry, and Radium Analyses

SDGs #92782219 and 92782220

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 #58787R
Review Level: Tier II
Project: 30113037.3D

Summary

This Data Review Report summarizes the review of Sample Delivery Groups (SDGs) #92782219 and 92782220 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-27I	92782219001 92782220001	Water	2/26/2025		X	X	X
YAT-YGWC-28S	92782219002 92782220002	Water	2/26/2025		X	X	X
YAT-YGWC-28I	92782219003 92782220003	Water	2/26/2025		X	X	X
YAT-AP2-FD-1	92782219004 92782220004	Water	2/26/2025	YAT-YGWC-28I	X	X	X
YAT-AP2-EB-1	92782219005 92782220005	Water	2/26/2025		X	X	X
YAT-AP2-FB-1	92782219006 92782220006	Water	2/26/2025		X	X	X
YAT-YGWC-29IB	92782219007 92782220007	Water	2/26/2025		X	X	X
YAT-YGWC-26S	92782219008 92782220008	Water	2/27/2025		X	X	X
YAT-YGWC-26I	92782219009 92782220009	Water	2/27/2025		X	X	X
YAT-YGWC-27S	92782219010 92782220010	Water	2/27/2025		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.

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 analytDcal 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 or MS/MSD 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-28I / YAT-AP2-FD-1	Lithium	0.00668 J	0.00637 J	AC
	Boron	1.9	1.9	
	Cadmium	0.00014 J	0.00050 U	
	Barium	0.066	0.066	0.0%
	Calcium	29.7	29.1	2.0%
	Magnesium	17.1	17.5	2.3%
	Potassium	5.7	5.8	1.7%
	Sodium	9.3	9.4	1.1%

Note:
AC = Acceptable

The differences in the results between the parent sample YAT-YGWC-28I and field duplicate sample YAT-AP2-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-AP2-FD-1 and YAT-AP2-EB-1 in association with alkalinity analysis exhibited recoveries within the control limits.

The MS/MSD analysis performed using sample YAT-YGWC-28I 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 using samples YAT-AP2-FD-1 and YAT-AP2-EB-1 in association with alkalinity analysis. The MS/MSD recoveries exhibited acceptable RPDs.

MS/MSD analysis was performed in replacement of the laboratory duplicate analysis using sample YAT-YGWC-28I in association with anions analysis. The MS/MSD recoveries exhibited acceptable RPDs.

The laboratory duplicate analysis performed on sample location YAT-AP2-FB-1 in association with TDS analysis exhibited acceptable difference between the results.

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-28I / YAT-AP2-FD-1	Alkalinity, Bicarbonate (CaCO3)	153	155	1.3%
	Alkalinity, Total as CaCO3	153	155	1.3%
	Total Dissolved Solids	202	203	0.5%
	Chloride	10.1	10.2	1.0%
	Fluoride	0.067 J	0.069 J	AC
	Sulfate	8.8	8.6	2.3%

Note:
AC = Acceptable

The differences in the results between the parent sample YAT-YGWC-28I and field duplicate sample YAT-AP2-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, 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-28I / YTC-AP2-FD-1	Radium-226	0.143 U ± 0.138	0.0866 U ± 0.135	AC
	Radium-228	0.612 U ± 0.536	0.453 U ± 0.492	
	Total Radium	0.755 U ± 0.674	0.540 U ± 0.627	

Note:
AC = Acceptable

The results were below the MDC in the parent sample YAT-YGWA-28I and field duplicate sample YAT-AP2-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: April 21, 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

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

92782219

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-202551	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-2		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) 2L, (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-YGWC-26S	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWC-26I	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWC-27S	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWC-27I	WG	G	02/26/25	1740	—	—		7		X	X	X	X	X	See Remarks 001	
YAT-YGWC-28S	WG	G	02/26/25	1335	—	—		7		X	X	X	X	X	See Remarks 002	
YAT-YGWC-28I	WG	G	02/26/25	1535	—	—		7		X	X	X	X	X	See Remarks 003	
YAT-AP2-FD-1	WG	G	02/26/25	—	—	—		7		X	X	X	X	X	See Remarks 004	
YAT-AP2-EB-1	WG	G	02/26/25	1445	—	—		7		X	X	X	X	X	See Remarks 005	
YAT-AP2-FB-1	WG	G	02/26/25	1730	—	—		7		X	X	X	X	X	See Remarks 006	
YAT-YGWC-29IB	WG	G	02/26/25	1005	—	—		7		X	X	X	X	X	See Remarks 007	

Lab Use Only: Proj. Mgr: Bonnie Vang; Acct.Num / 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) 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	02/27/25 0810	Lorraine Dorr / Arcadis	2/27/25 0810
Lorraine Dorr / Arcadis	2/27/25 1005	Tyan Williams / Pace	2/27/25 1005
Tyan Williams / Pace	2/27/25 1340	Phuc Hua	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

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_C82123 ©

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

92782219

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-2		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) Na2SO4, (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 9316/8320	Alkalinity (SM2320B)	Sample Comment	Preservation non-conformance
YAT-YGWC-26S	WG	G	2/27/25	1200	—	—		7		X	X	X	X	X	See Remarks 008	
YAT-YGWC-26I	WG	G	2/27/25	1035	—	—		7		X	X	X	X	X	See Remarks 009	
YAT-YGWC-27S	WG	G	2/27/25	0920	—	—		7		X	X	X	X	X	See Remarks 010	
YAT-YGWC-27I	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWC-28S	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWC-28I	WG	G						7		X	X	X	X	X	See Remarks	
YAT-AP2-FD-1	WG	G						7		X	X	X	X	X	See Remarks	
YAT-AP2-EB-1	WG	G						7		X	X	X	X	X	See Remarks	
YAT-AP2-FB-1	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWC-29IB	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: 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
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/

ENV-FRM-CORQ-0019_v01_082123 ©

SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier	Reason for Validation Qualifier
92782219	No qualifiers assigned						
92782220	No qualifiers assigned						

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

March 25, 2025

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

RE: Project: YAT AP-2
Pace Project No.: 92782219

Dear Trey Singleton:

Enclosed are the analytical results for sample(s) received by the laboratory between February 27, 2025 and February 28, 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

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

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

CERTIFICATIONS

Project: YAT AP-2
Pace Project No.: 92782219

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

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

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

SAMPLE SUMMARY

Project: YAT AP-2
Pace Project No.: 92782219

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92782219001	**YAT-YGWC-27I**	Water	02/26/25 17:40	02/27/25 13:40
92782219002	**YAT-YGWC-28S**	Water	02/26/25 13:35	02/27/25 13:40
92782219003	**YAT-YGWC-28I**	Water	02/26/25 15:35	02/27/25 13:40
92782219004	**YAT-AP2-FD-1**	Water	02/26/25 00:00	02/27/25 13:40
92782219005	**YAT-AP2-EB-1**	Water	02/26/25 14:45	02/27/25 13:40
92782219006	**YAT-AP2-FB-1**	Water	02/26/25 17:30	02/27/25 13:40
92782219007	**YAT-YGWC-29IB**	Water	02/26/25 10:05	02/27/25 13:40
92782219008	**YAT-YGWC-26S**	Water	02/27/25 12:00	02/28/25 11:00
92782219009	**YAT-YGWC-26I**	Water	02/27/25 10:35	02/28/25 11:00
92782219010	**YAT-YGWC-27S**	Water	02/27/25 09:20	02/28/25 11:00

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

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

SAMPLE ANALYTE COUNT

Project: YAT AP-2
Pace Project No.: 92782219

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92782219001	**YAT-YGWC-27I**	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
92782219002	**YAT-YGWC-28S**	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
92782219003	**YAT-YGWC-28I**	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
92782219004	**YAT-AP2-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
92782219005	**YAT-AP2-EB-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
92782219006	**YAT-AP2-FB-1**	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
92782219007	**YAT-YGWC-29IB**	EPA 6020B	JPD	1	PAN

REPORT OF LABORATORY ANALYSIS

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

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

SAMPLE ANALYTE COUNT

Project: YAT AP-2
Pace Project No.: 92782219

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		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
92782219008	**YAT-YGWC-26S**	EPA 6020B	JPD	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
92782219009	**YAT-YGWC-26I**	EPA 6020B	JPD	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
92782219010	**YAT-YGWC-27S**	EPA 6020B	JPD	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

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

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

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

SUMMARY OF DETECTION

Project: YAT AP-2
Pace Project No.: 92782219

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92782219001	**YAT-YGWC-27I**					
EPA 6020B	Lithium	0.00778J	mg/L	0.0300	03/12/25 13:02	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	131	mg/L	5.0	03/07/25 15:20	
SM 2320B-2011	Alkalinity, Total as CaCO3	131	mg/L	5.0	03/07/25 15:20	
SM 2540C-2015	Total Dissolved Solids	186	mg/L	25.0	03/05/25 12:29	
EPA 300.0 Rev 2.1 1993	Chloride	11.6	mg/L	1.0	03/01/25 23:46	
EPA 300.0 Rev 2.1 1993	Fluoride	0.059J	mg/L	0.10	03/01/25 23:46	
EPA 300.0 Rev 2.1 1993	Sulfate	4.0	mg/L	1.0	03/01/25 23:46	
EPA 6020B	Barium	0.063	mg/L	0.0050	03/20/25 11:15	
EPA 6020B	Boron	2.1	mg/L	0.40	03/20/25 20:43	
EPA 6020B	Calcium	25.9	mg/L	1.0	03/20/25 11:15	
EPA 6020B	Cobalt	0.014	mg/L	0.0050	03/20/25 11:15	
EPA 6020B	Magnesium	14.9	mg/L	0.050	03/20/25 11:15	
EPA 6020B	Potassium	4.0	mg/L	0.50	03/20/25 11:15	
EPA 6020B	Sodium	11.3	mg/L	1.0	03/20/25 11:15	
92782219002	**YAT-YGWC-28S**					
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	164	mg/L	5.0	03/07/25 15:29	
SM 2320B-2011	Alkalinity, Total as CaCO3	164	mg/L	5.0	03/07/25 15:29	
SM 2540C-2015	Total Dissolved Solids	217	mg/L	25.0	03/05/25 12:29	
EPA 300.0 Rev 2.1 1993	Chloride	16.3	mg/L	1.0	03/02/25 00:01	
EPA 300.0 Rev 2.1 1993	Fluoride	0.13	mg/L	0.10	03/02/25 00:01	
EPA 300.0 Rev 2.1 1993	Sulfate	2.0	mg/L	1.0	03/02/25 00:01	
EPA 6020B	Barium	0.20	mg/L	0.0050	03/20/25 11:19	
EPA 6020B	Boron	2.5	mg/L	0.40	03/20/25 20:52	
EPA 6020B	Calcium	28.4	mg/L	1.0	03/20/25 11:19	
EPA 6020B	Magnesium	21.0	mg/L	0.050	03/20/25 11:19	
EPA 6020B	Potassium	3.8	mg/L	0.50	03/20/25 11:19	
EPA 6020B	Sodium	10.9	mg/L	1.0	03/20/25 11:19	
92782219003	**YAT-YGWC-28I**					
EPA 6020B	Lithium	0.00668J	mg/L	0.0300	03/12/25 13:09	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	153	mg/L	5.0	03/07/25 15:40	
SM 2320B-2011	Alkalinity, Total as CaCO3	153	mg/L	5.0	03/07/25 15:40	
SM 2540C-2015	Total Dissolved Solids	202	mg/L	25.0	03/05/25 12:29	
EPA 300.0 Rev 2.1 1993	Chloride	10.1	mg/L	1.0	03/02/25 00:16	
EPA 300.0 Rev 2.1 1993	Fluoride	0.067J	mg/L	0.10	03/02/25 00:16	
EPA 300.0 Rev 2.1 1993	Sulfate	8.8	mg/L	1.0	03/02/25 00:16	
EPA 6020B	Barium	0.066	mg/L	0.0050	03/20/25 11:24	
EPA 6020B	Boron	1.9	mg/L	0.40	03/20/25 21:01	
EPA 6020B	Cadmium	0.00014J	mg/L	0.00050	03/20/25 11:24	
EPA 6020B	Calcium	29.7	mg/L	1.0	03/20/25 11:24	
EPA 6020B	Magnesium	17.1	mg/L	0.050	03/20/25 11:24	
EPA 6020B	Potassium	5.7	mg/L	0.50	03/20/25 11:24	
EPA 6020B	Sodium	9.3	mg/L	1.0	03/20/25 11:24	
92782219004	**YAT-AP2-FD-1**					
EPA 6020B	Lithium	0.00637J	mg/L	0.0300	03/12/25 13:12	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	155	mg/L	5.0	03/07/25 15:50	
SM 2320B-2011	Alkalinity, Total as CaCO3	155	mg/L	5.0	03/07/25 15:50	

REPORT OF LABORATORY ANALYSIS

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

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

SUMMARY OF DETECTION

Project: YAT AP-2
Pace Project No.: 92782219

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92782219004	**YAT-AP2-FD-1**					
SM 2540C-2015	Total Dissolved Solids	203	mg/L	25.0	03/05/25 12:29	
EPA 300.0 Rev 2.1 1993	Chloride	10.2	mg/L	1.0	03/02/25 01:01	
EPA 300.0 Rev 2.1 1993	Fluoride	0.069J	mg/L	0.10	03/02/25 01:01	
EPA 300.0 Rev 2.1 1993	Sulfate	8.6	mg/L	1.0	03/02/25 01:01	
EPA 6020B	Barium	0.066	mg/L	0.0050	03/20/25 11:29	
EPA 6020B	Boron	1.9	mg/L	0.40	03/20/25 21:10	
EPA 6020B	Calcium	29.1	mg/L	1.0	03/20/25 11:29	
EPA 6020B	Magnesium	17.5	mg/L	0.050	03/20/25 11:29	
EPA 6020B	Potassium	5.8	mg/L	0.50	03/20/25 11:29	
EPA 6020B	Sodium	9.4	mg/L	1.0	03/20/25 11:29	
92782219007	**YAT-YGWC-29IB**					
EPA 6020B	Lithium	0.00486J	mg/L	0.0300	03/12/25 13:22	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	55.5	mg/L	5.0	03/08/25 16:11	
SM 2320B-2011	Alkalinity, Total as CaCO3	55.5	mg/L	5.0	03/08/25 16:11	
SM 2540C-2015	Total Dissolved Solids	148	mg/L	25.0	03/05/25 12:30	
EPA 300.0 Rev 2.1 1993	Chloride	9.7	mg/L	1.0	03/02/25 01:16	
EPA 300.0 Rev 2.1 1993	Fluoride	0.059J	mg/L	0.10	03/02/25 01:16	
EPA 300.0 Rev 2.1 1993	Sulfate	40.9	mg/L	1.0	03/02/25 01:16	
EPA 6020B	Barium	0.080	mg/L	0.0050	03/20/25 11:52	
EPA 6020B	Boron	0.92	mg/L	0.20	03/20/25 21:37	
EPA 6020B	Cadmium	0.00013J	mg/L	0.00050	03/20/25 11:52	
EPA 6020B	Calcium	11.1	mg/L	1.0	03/20/25 11:52	
EPA 6020B	Cobalt	0.0063	mg/L	0.0050	03/20/25 11:52	
EPA 6020B	Magnesium	11.7	mg/L	0.050	03/20/25 11:52	
EPA 6020B	Potassium	3.6	mg/L	0.50	03/20/25 11:52	
EPA 6020B	Sodium	15.5	mg/L	1.0	03/20/25 11:52	
92782219008	**YAT-YGWC-26S**					
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	15.2	mg/L	5.0	03/06/25 21:40	
SM 2320B-2011	Alkalinity, Total as CaCO3	15.2	mg/L	5.0	03/06/25 21:40	
SM 2540C-2015	Total Dissolved Solids	181	mg/L	25.0	03/06/25 13:35	
EPA 300.0 Rev 2.1 1993	Chloride	13.5	mg/L	1.0	03/01/25 14:44	
EPA 300.0 Rev 2.1 1993	Fluoride	0.069J	mg/L	0.10	03/01/25 14:44	
EPA 300.0 Rev 2.1 1993	Sulfate	83.3	mg/L	1.0	03/01/25 14:44	
EPA 6020B	Barium	0.026	mg/L	0.0050	03/20/25 11:57	
EPA 6020B	Boron	0.78	mg/L	0.20	03/20/25 21:46	
EPA 6020B	Calcium	10.2	mg/L	1.0	03/20/25 11:57	
EPA 6020B	Magnesium	14.8	mg/L	0.050	03/20/25 11:57	
EPA 6020B	Potassium	0.70	mg/L	0.50	03/20/25 11:57	
EPA 6020B	Sodium	17.6	mg/L	1.0	03/20/25 11:57	
92782219009	**YAT-YGWC-26I**					
EPA 6020B	Lithium	0.00800J	mg/L	0.0300	03/12/25 13:28	J
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	31.2	mg/L	5.0	03/06/25 21:45	
SM 2320B-2011	Alkalinity, Total as CaCO3	31.2	mg/L	5.0	03/06/25 21:45	
SM 2540C-2015	Total Dissolved Solids	213	mg/L	25.0	03/06/25 13:35	
EPA 300.0 Rev 2.1 1993	Chloride	14.8	mg/L	1.0	03/01/25 15:28	
EPA 300.0 Rev 2.1 1993	Fluoride	0.087J	mg/L	0.10	03/01/25 15:28	

REPORT OF LABORATORY ANALYSIS

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

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

SUMMARY OF DETECTION

Project: YAT AP-2
Pace Project No.: 92782219

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92782219009	**YAT-YGWC-26I**					
EPA 300.0 Rev 2.1 1993	Sulfate	77.5	mg/L	1.0	03/01/25 15:28	
EPA 6020B	Barium	0.058	mg/L	0.0050	03/20/25 12:01	
EPA 6020B	Boron	0.75	mg/L	0.20	03/20/25 22:14	
EPA 6020B	Calcium	15.7	mg/L	1.0	03/20/25 12:01	
EPA 6020B	Magnesium	11.1	mg/L	0.050	03/20/25 12:01	
EPA 6020B	Potassium	2.2	mg/L	0.50	03/20/25 12:01	
EPA 6020B	Selenium	0.0047J	mg/L	0.0050	03/20/25 12:01	
EPA 6020B	Sodium	21.9	mg/L	1.0	03/20/25 12:01	
92782219010	**YAT-YGWC-27S**					
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	98.3	mg/L	5.0	03/06/25 21:50	
SM 2320B-2011	Alkalinity, Total as CaCO3	98.3	mg/L	5.0	03/06/25 21:50	
SM 2540C-2015	Total Dissolved Solids	133	mg/L	25.0	03/06/25 13:35	
EPA 300.0 Rev 2.1 1993	Chloride	11.8	mg/L	1.0	03/01/25 15:43	
EPA 300.0 Rev 2.1 1993	Fluoride	0.12	mg/L	0.10	03/01/25 15:43	
EPA 300.0 Rev 2.1 1993	Sulfate	12.4	mg/L	1.0	03/01/25 15:43	
EPA 6020B	Barium	0.050	mg/L	0.0050	03/20/25 12:06	
EPA 6020B	Boron	0.94	mg/L	0.20	03/20/25 22:23	
EPA 6020B	Calcium	20.7	mg/L	1.0	03/20/25 12:06	
EPA 6020B	Cobalt	0.0017J	mg/L	0.0050	03/20/25 12:06	
EPA 6020B	Magnesium	7.7	mg/L	0.050	03/20/25 12:06	
EPA 6020B	Potassium	1.5	mg/L	0.50	03/20/25 12:06	
EPA 6020B	Sodium	17.1	mg/L	1.0	03/20/25 12:06	

REPORT OF LABORATORY ANALYSIS

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

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

ANALYTICAL RESULTS

Project: YAT AP-2
Pace Project No.: 92782219

Sample: YAT-YGWC-27I **Lab ID: 92782219001** Collected: 02/26/25 17:40 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	**0.00778J**	mg/L	0.0300	0.000600	1	03/12/25 08:51	03/12/25 13:02	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 14:29	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**131**	mg/L	5.0	5.0	1		03/07/25 15:20		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/07/25 15:20		
Alkalinity, Total as CaCO3	**131**	mg/L	5.0	5.0	1		03/07/25 15:20		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**186**	mg/L	25.0	25.0	1		03/05/25 12:29		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**11.6**	mg/L	1.0	0.60	1		03/01/25 23:46	16887-00-6	
Fluoride	**0.059J**	mg/L	0.10	0.050	1		03/01/25 23:46	16984-48-8	
Sulfate	**4.0**	mg/L	1.0	0.50	1		03/01/25 23:46	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 17:45	03/20/25 11:15	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 11:15	7440-38-2	
Barium	**0.063**	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 11:15	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/17/25 17:45	03/20/25 11:15	7440-41-7	
Boron	**2.1**	mg/L	0.40	0.062	10	03/17/25 17:45	03/20/25 20:43	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/17/25 17:45	03/20/25 11:15	7440-43-9	
Calcium	**25.9**	mg/L	1.0	0.10	1	03/17/25 17:45	03/20/25 11:15	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 11:15	7440-47-3	
Cobalt	**0.014**	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 11:15	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/17/25 17:45	03/20/25 11:15	7439-92-1	
Magnesium	**14.9**	mg/L	0.050	0.010	1	03/17/25 17:45	03/20/25 11:15	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/17/25 17:45	03/20/25 11:15	7439-98-7	
Potassium	**4.0**	mg/L	0.50	0.10	1	03/17/25 17:45	03/20/25 11:15	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 11:15	7782-49-2	
Sodium	**11.3**	mg/L	1.0	0.15	1	03/17/25 17:45	03/20/25 11:15	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/17/25 17:45	03/20/25 11:15	7440-28-0	

REPORT OF LABORATORY ANALYSIS

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

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

ANALYTICAL RESULTS

Project: YAT AP-2
Pace Project No.: 92782219

Sample: YAT-YGWC-28S **Lab ID: 92782219002** Collected: 02/26/25 13:35 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	ND	mg/L	0.0300	0.000600	1	03/12/25 08:51	03/12/25 13:05	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	03/01/25 17:55	03/03/25 14:31	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**164**	mg/L	5.0	5.0	1		03/07/25 15:29		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/07/25 15:29		
Alkalinity, Total as CaCO3	**164**	mg/L	5.0	5.0	1		03/07/25 15:29		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**217**	mg/L	25.0	25.0	1		03/05/25 12:29		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**16.3**	mg/L	1.0	0.60	1		03/02/25 00:01	16887-00-6	
Fluoride	**0.13**	mg/L	0.10	0.050	1		03/02/25 00:01	16984-48-8	
Sulfate	**2.0**	mg/L	1.0	0.50	1		03/02/25 00:01	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 17:45	03/20/25 11:19	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 11:19	7440-38-2	
Barium	**0.20**	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 11:19	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/17/25 17:45	03/20/25 11:19	7440-41-7	
Boron	**2.5**	mg/L	0.40	0.062	10	03/17/25 17:45	03/20/25 20:52	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/17/25 17:45	03/20/25 11:19	7440-43-9	
Calcium	**28.4**	mg/L	1.0	0.10	1	03/17/25 17:45	03/20/25 11:19	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 11:19	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 11:19	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/17/25 17:45	03/20/25 11:19	7439-92-1	
Magnesium	**21.0**	mg/L	0.050	0.010	1	03/17/25 17:45	03/20/25 11:19	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/17/25 17:45	03/20/25 11:19	7439-98-7	
Potassium	**3.8**	mg/L	0.50	0.10	1	03/17/25 17:45	03/20/25 11:19	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 11:19	7782-49-2	
Sodium	**10.9**	mg/L	1.0	0.15	1	03/17/25 17:45	03/20/25 11:19	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/17/25 17:45	03/20/25 11:19	7440-28-0	

REPORT OF LABORATORY ANALYSIS

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

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

ANALYTICAL RESULTS

Project: YAT AP-2
Pace Project No.: 92782219

Sample: YAT-YGWC-28I **Lab ID: 92782219003** Collected: 02/26/25 15:35 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	**0.00668J**	mg/L	0.0300	0.000600	1	03/12/25 08:51	03/12/25 13:09	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 14:33	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**153**	mg/L	5.0	5.0	1		03/07/25 15:40		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/07/25 15:40		
Alkalinity, Total as CaCO3	**153**	mg/L	5.0	5.0	1		03/07/25 15:40		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**202**	mg/L	25.0	25.0	1		03/05/25 12:29		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**10.1**	mg/L	1.0	0.60	1		03/02/25 00:16	16887-00-6	
Fluoride	**0.067J**	mg/L	0.10	0.050	1		03/02/25 00:16	16984-48-8	
Sulfate	**8.8**	mg/L	1.0	0.50	1		03/02/25 00:16	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 17:45	03/20/25 11:24	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 11:24	7440-38-2	
Barium	**0.066**	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 11:24	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/17/25 17:45	03/20/25 11:24	7440-41-7	
Boron	**1.9**	mg/L	0.40	0.062	10	03/17/25 17:45	03/20/25 21:01	7440-42-8	
Cadmium	**0.00014J**	mg/L	0.00050	0.00012	1	03/17/25 17:45	03/20/25 11:24	7440-43-9	
Calcium	**29.7**	mg/L	1.0	0.10	1	03/17/25 17:45	03/20/25 11:24	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 11:24	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 11:24	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/17/25 17:45	03/20/25 11:24	7439-92-1	
Magnesium	**17.1**	mg/L	0.050	0.010	1	03/17/25 17:45	03/20/25 11:24	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/17/25 17:45	03/20/25 11:24	7439-98-7	
Potassium	**5.7**	mg/L	0.50	0.10	1	03/17/25 17:45	03/20/25 11:24	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 11:24	7782-49-2	
Sodium	**9.3**	mg/L	1.0	0.15	1	03/17/25 17:45	03/20/25 11:24	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/17/25 17:45	03/20/25 11:24	7440-28-0	

REPORT OF LABORATORY ANALYSIS

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

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

ANALYTICAL RESULTS

Project: YAT AP-2
Pace Project No.: 92782219

Sample: YAT-AP2-FD-1 **Lab ID: 92782219004** 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	**0.00637J**	mg/L	0.0300	0.000600	1	03/12/25 08:51	03/12/25 13:12	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 14:35	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**155**	mg/L	5.0	5.0	1		03/07/25 15:50		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/07/25 15:50		
Alkalinity, Total as CaCO3	**155**	mg/L	5.0	5.0	1		03/07/25 15:50		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**203**	mg/L	25.0	25.0	1		03/05/25 12:29		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**10.2**	mg/L	1.0	0.60	1		03/02/25 01:01	16887-00-6	
Fluoride	**0.069J**	mg/L	0.10	0.050	1		03/02/25 01:01	16984-48-8	
Sulfate	**8.6**	mg/L	1.0	0.50	1		03/02/25 01:01	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 17:45	03/20/25 11:29	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 11:29	7440-38-2	
Barium	**0.066**	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 11:29	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/17/25 17:45	03/20/25 11:29	7440-41-7	
Boron	**1.9**	mg/L	0.40	0.062	10	03/17/25 17:45	03/20/25 21:10	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/17/25 17:45	03/20/25 11:29	7440-43-9	
Calcium	**29.1**	mg/L	1.0	0.10	1	03/17/25 17:45	03/20/25 11:29	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 11:29	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 11:29	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/17/25 17:45	03/20/25 11:29	7439-92-1	
Magnesium	**17.5**	mg/L	0.050	0.010	1	03/17/25 17:45	03/20/25 11:29	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/17/25 17:45	03/20/25 11:29	7439-98-7	
Potassium	**5.8**	mg/L	0.50	0.10	1	03/17/25 17:45	03/20/25 11:29	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 11:29	7782-49-2	
Sodium	**9.4**	mg/L	1.0	0.15	1	03/17/25 17:45	03/20/25 11:29	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/17/25 17:45	03/20/25 11:29	7440-28-0	

REPORT OF LABORATORY ANALYSIS

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

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

ANALYTICAL RESULTS

Project: YAT AP-2
Pace Project No.: 92782219

Sample: YAT-AP2-EB-1 **Lab ID: 92782219005** Collected: 02/26/25 14:45 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 08:51	03/12/25 13:15	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 14:37	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 16:22		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/07/25 16:22		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		03/07/25 16:22		
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 12:30		
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 13:34	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/01/25 13:34	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/01/25 13:34	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 17:45	03/20/25 11:33	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 11:33	7440-38-2	
Barium	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 11:33	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/17/25 17:45	03/20/25 11:33	7440-41-7	
Boron	ND	mg/L	0.040	0.0062	1	03/17/25 17:45	03/20/25 21:19	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/17/25 17:45	03/20/25 11:33	7440-43-9	
Calcium	ND	mg/L	1.0	0.10	1	03/17/25 17:45	03/20/25 11:33	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 11:33	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 11:33	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/17/25 17:45	03/20/25 11:33	7439-92-1	
Magnesium	ND	mg/L	0.050	0.010	1	03/17/25 17:45	03/20/25 11:33	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/17/25 17:45	03/20/25 11:33	7439-98-7	
Potassium	ND	mg/L	0.50	0.10	1	03/17/25 17:45	03/20/25 11:33	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 11:33	7782-49-2	
Sodium	ND	mg/L	1.0	0.15	1	03/17/25 17:45	03/20/25 11:33	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/17/25 17:45	03/20/25 11:33	7440-28-0	

REPORT OF LABORATORY ANALYSIS

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

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

ANALYTICAL RESULTS

Project: YAT AP-2
Pace Project No.: 92782219

Sample: YAT-AP2-FB-1 **Lab ID: 92782219006** Collected: 02/26/25 17:30 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 08:51	03/12/25 13:18	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 14:39	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		03/08/25 16:07		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/08/25 16:07		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		03/08/25 16:07		
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 12:30		
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 13:49	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/01/25 13:49	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/01/25 13:49	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 17:45	03/20/25 11:38	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 11:38	7440-38-2	
Barium	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 11:38	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/17/25 17:45	03/20/25 11:38	7440-41-7	
Boron	ND	mg/L	0.040	0.0062	1	03/17/25 17:45	03/20/25 21:28	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/17/25 17:45	03/20/25 11:38	7440-43-9	
Calcium	ND	mg/L	1.0	0.10	1	03/17/25 17:45	03/20/25 11:38	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 11:38	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 11:38	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/17/25 17:45	03/20/25 11:38	7439-92-1	
Magnesium	ND	mg/L	0.050	0.010	1	03/17/25 17:45	03/20/25 11:38	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/17/25 17:45	03/20/25 11:38	7439-98-7	
Potassium	ND	mg/L	0.50	0.10	1	03/17/25 17:45	03/20/25 11:38	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 11:38	7782-49-2	
Sodium	ND	mg/L	1.0	0.15	1	03/17/25 17:45	03/20/25 11:38	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/17/25 17:45	03/20/25 11:38	7440-28-0	

REPORT OF LABORATORY ANALYSIS

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

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

ANALYTICAL RESULTS

Project: YAT AP-2
Pace Project No.: 92782219

Sample: YAT-YGWC-29IB **Lab ID: 92782219007** Collected: 02/26/25 10:05 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	**0.00486J**	mg/L	0.0300	0.000600	1	03/12/25 08:51	03/12/25 13:22	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 14:41	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**55.5**	mg/L	5.0	5.0	1		03/08/25 16:11		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/08/25 16:11		
Alkalinity, Total as CaCO3	**55.5**	mg/L	5.0	5.0	1		03/08/25 16:11		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**148**	mg/L	25.0	25.0	1		03/05/25 12:30		
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		03/02/25 01:16	16887-00-6	
Fluoride	**0.059J**	mg/L	0.10	0.050	1		03/02/25 01:16	16984-48-8	
Sulfate	**40.9**	mg/L	1.0	0.50	1		03/02/25 01:16	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 17:45	03/20/25 11:52	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 11:52	7440-38-2	
Barium	**0.080**	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 11:52	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/17/25 17:45	03/20/25 11:52	7440-41-7	
Boron	**0.92**	mg/L	0.20	0.031	5	03/17/25 17:45	03/20/25 21:37	7440-42-8	
Cadmium	**0.00013J**	mg/L	0.00050	0.00012	1	03/17/25 17:45	03/20/25 11:52	7440-43-9	
Calcium	**11.1**	mg/L	1.0	0.10	1	03/17/25 17:45	03/20/25 11:52	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 11:52	7440-47-3	
Cobalt	**0.0063**	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 11:52	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/17/25 17:45	03/20/25 11:52	7439-92-1	
Magnesium	**11.7**	mg/L	0.050	0.010	1	03/17/25 17:45	03/20/25 11:52	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/17/25 17:45	03/20/25 11:52	7439-98-7	
Potassium	**3.6**	mg/L	0.50	0.10	1	03/17/25 17:45	03/20/25 11:52	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 11:52	7782-49-2	
Sodium	**15.5**	mg/L	1.0	0.15	1	03/17/25 17:45	03/20/25 11:52	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/17/25 17:45	03/20/25 11:52	7440-28-0	

REPORT OF LABORATORY ANALYSIS

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

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

ANALYTICAL RESULTS

Project: YAT AP-2
Pace Project No.: 92782219

Sample: YAT-YGWC-26S **Lab ID: 92782219008** Collected: 02/27/25 12:00 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	ND	mg/L	0.0300	0.000600	1	03/12/25 08:51	03/12/25 13:25	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	03/03/25 16:47	03/04/25 12:35	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		03/06/25 21:40		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/06/25 21:40		
Alkalinity, Total as CaCO3	**15.2**	mg/L	5.0	5.0	1		03/06/25 21:40		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**181**	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	**13.5**	mg/L	1.0	0.60	1		03/01/25 14:44	16887-00-6	
Fluoride	**0.069J**	mg/L	0.10	0.050	1		03/01/25 14:44	16984-48-8	
Sulfate	**83.3**	mg/L	1.0	0.50	1		03/01/25 14:44	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 17:45	03/20/25 11:57	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 11:57	7440-38-2	
Barium	**0.026**	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 11:57	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/17/25 17:45	03/20/25 11:57	7440-41-7	
Boron	**0.78**	mg/L	0.20	0.031	5	03/17/25 17:45	03/20/25 21:46	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/17/25 17:45	03/20/25 11:57	7440-43-9	
Calcium	**10.2**	mg/L	1.0	0.10	1	03/17/25 17:45	03/20/25 11:57	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 11:57	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 11:57	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/17/25 17:45	03/20/25 11:57	7439-92-1	
Magnesium	**14.8**	mg/L	0.050	0.010	1	03/17/25 17:45	03/20/25 11:57	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/17/25 17:45	03/20/25 11:57	7439-98-7	
Potassium	**0.70**	mg/L	0.50	0.10	1	03/17/25 17:45	03/20/25 11:57	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 11:57	7782-49-2	
Sodium	**17.6**	mg/L	1.0	0.15	1	03/17/25 17:45	03/20/25 11:57	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/17/25 17:45	03/20/25 11:57	7440-28-0	

REPORT OF LABORATORY ANALYSIS

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

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

ANALYTICAL RESULTS

Project: YAT AP-2
Pace Project No.: 92782219

Sample: YAT-YGWC-26I **Lab ID: 92782219009** Collected: 02/27/25 10:35 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	**0.00800J**	mg/L	0.0300	0.000600	1	03/12/25 08:51	03/12/25 13:28	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	03/03/25 16:47	03/04/25 12:37	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**31.2**	mg/L	5.0	5.0	1		03/06/25 21:45		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/06/25 21:45		
Alkalinity, Total as CaCO3	**31.2**	mg/L	5.0	5.0	1		03/06/25 21:45		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**213**	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	**14.8**	mg/L	1.0	0.60	1		03/01/25 15:28	16887-00-6	
Fluoride	**0.087J**	mg/L	0.10	0.050	1		03/01/25 15:28	16984-48-8	
Sulfate	**77.5**	mg/L	1.0	0.50	1		03/01/25 15:28	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 17:45	03/20/25 12:01	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 12:01	7440-38-2	
Barium	**0.058**	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 12:01	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/17/25 17:45	03/20/25 12:01	7440-41-7	
Boron	**0.75**	mg/L	0.20	0.031	5	03/17/25 17:45	03/20/25 22:14	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/17/25 17:45	03/20/25 12:01	7440-43-9	
Calcium	**15.7**	mg/L	1.0	0.10	1	03/17/25 17:45	03/20/25 12:01	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 12:01	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 12:01	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/17/25 17:45	03/20/25 12:01	7439-92-1	
Magnesium	**11.1**	mg/L	0.050	0.010	1	03/17/25 17:45	03/20/25 12:01	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/17/25 17:45	03/20/25 12:01	7439-98-7	
Potassium	**2.2**	mg/L	0.50	0.10	1	03/17/25 17:45	03/20/25 12:01	7440-09-7	
Selenium	**0.0047J**	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 12:01	7782-49-2	
Sodium	**21.9**	mg/L	1.0	0.15	1	03/17/25 17:45	03/20/25 12:01	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/17/25 17:45	03/20/25 12:01	7440-28-0	

REPORT OF LABORATORY ANALYSIS

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

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

ANALYTICAL RESULTS

Project: YAT AP-2
Pace Project No.: 92782219

Sample: YAT-YGWC-27S **Lab ID: 92782219010** Collected: 02/27/25 09:20 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	ND	mg/L	0.0300	0.000600	1	03/12/25 08:51	03/12/25 13:31	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	03/03/25 16:47	03/04/25 12:39	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**98.3**	mg/L	5.0	5.0	1		03/06/25 21:50		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/06/25 21:50		
Alkalinity, Total as CaCO3	**98.3**	mg/L	5.0	5.0	1		03/06/25 21:50		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**133**	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	**11.8**	mg/L	1.0	0.60	1		03/01/25 15:43	16887-00-6	
Fluoride	**0.12**	mg/L	0.10	0.050	1		03/01/25 15:43	16984-48-8	
Sulfate	**12.4**	mg/L	1.0	0.50	1		03/01/25 15:43	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 17:45	03/20/25 12:06	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 12:06	7440-38-2	
Barium	**0.050**	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 12:06	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.00015	1	03/17/25 17:45	03/20/25 12:06	7440-41-7	
Boron	**0.94**	mg/L	0.20	0.031	5	03/17/25 17:45	03/20/25 22:23	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/17/25 17:45	03/20/25 12:06	7440-43-9	
Calcium	**20.7**	mg/L	1.0	0.10	1	03/17/25 17:45	03/20/25 12:06	7440-70-2	
Chromium	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 12:06	7440-47-3	
Cobalt	**0.0017J**	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 12:06	7440-48-4	
Lead	ND	mg/L	0.0010	0.00025	1	03/17/25 17:45	03/20/25 12:06	7439-92-1	
Magnesium	**7.7**	mg/L	0.050	0.010	1	03/17/25 17:45	03/20/25 12:06	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.0025	1	03/17/25 17:45	03/20/25 12:06	7439-98-7	
Potassium	**1.5**	mg/L	0.50	0.10	1	03/17/25 17:45	03/20/25 12:06	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0012	1	03/17/25 17:45	03/20/25 12:06	7782-49-2	
Sodium	**17.1**	mg/L	1.0	0.15	1	03/17/25 17:45	03/20/25 12:06	7440-23-5	
Thallium	ND	mg/L	0.0010	0.00015	1	03/17/25 17:45	03/20/25 12:06	7440-28-0	

REPORT OF LABORATORY ANALYSIS

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

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

QUALITY CONTROL DATA

Project: YAT AP-2
Pace Project No.: 92782219

QC Batch: 2467118
QC Batch Method: 3015
Analysis Method: EPA 6020B
Analysis Description: Metals (ICPMS) 6020B
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 92782219001, 92782219002, 92782219003, 92782219004, 92782219005, 92782219006, 92782219007, 92782219008, 92782219009, 92782219010

METHOD BLANK: R4185481-1 Matrix: Water
Associated Lab Samples: 92782219001, 92782219002, 92782219003, 92782219004, 92782219005, 92782219006, 92782219007, 92782219008, 92782219009, 92782219010

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.

REPORT OF LABORATORY ANALYSIS

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

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

QUALITY CONTROL DATA

Project: YAT AP-2
Pace Project No.: 92782219

QC Batch: 919473 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92782219001, 92782219002, 92782219003, 92782219004, 92782219005, 92782219006, 92782219007

METHOD BLANK: 4725187 Matrix: Water
Associated Lab Samples: 92782219001, 92782219002, 92782219003, 92782219004, 92782219005, 92782219006, 92782219007

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	

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

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

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

QUALITY CONTROL DATA

Project: YAT AP-2
Pace Project No.: 92782219

QC Batch: 919516
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92782219008, 92782219009, 92782219010

METHOD BLANK: 4725279 Matrix: Water
Associated Lab Samples: 92782219008, 92782219009, 92782219010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00012	03/04/25 12:09	

LABORATORY CONTROL SAMPLE: 4725280

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4725281 4725282

Parameter	Units	92782286002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	2.2 ug/L			0.0050	0.0052				3	25	

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

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

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

QUALITY CONTROL DATA

Project: YAT AP-2
Pace Project No.: 92782219

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: 92782219001, 92782219002, 92782219003, 92782219004, 92782219005

METHOD BLANK: 4729686 Matrix: Water
Associated Lab Samples: 92782219001, 92782219002, 92782219003, 92782219004, 92782219005

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	

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

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

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

QUALITY CONTROL DATA

Project: YAT AP-2
Pace Project No.: 92782219

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: 92782219008, 92782219009, 92782219010

METHOD BLANK: 4730332 Matrix: Water
Associated Lab Samples: 92782219008, 92782219009, 92782219010

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	

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

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

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

QUALITY CONTROL DATA

Project: YAT AP-2
Pace Project No.: 92782219

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: 92782219006, 92782219007

METHOD BLANK: 4732149 Matrix: Water
Associated Lab Samples: 92782219006, 92782219007

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

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

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

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

QUALITY CONTROL DATA

Project: YAT AP-2
Pace Project No.: 92782219

QC Batch: 919959 | 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: 92782219001, 92782219002, 92782219003, 92782219004, 92782219005, 92782219006, 92782219007

METHOD BLANK: 4727353 Matrix: Water
Associated Lab Samples: 92782219001, 92782219002, 92782219003, 92782219004, 92782219005, 92782219006, 92782219007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	03/05/25 12:28	

LABORATORY CONTROL SAMPLE: 4727354

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	254	101	90-110	

SAMPLE DUPLICATE: 4727355

Parameter	Units	92781915003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	309	309	0	25	

SAMPLE DUPLICATE: 4727356

Parameter	Units	92782219006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		25	

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

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

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

QUALITY CONTROL DATA

Project: YAT AP-2
Pace Project No.: 92782219

QC Batch: 920258
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: 92782219008, 92782219009, 92782219010

METHOD BLANK: 4728740 Matrix: Water
Associated Lab Samples: 92782219008, 92782219009, 92782219010

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	

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

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

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

QUALITY CONTROL DATA

Project: YAT AP-2
Pace Project No.: 92782219

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: 92782219001, 92782219002, 92782219003, 92782219004, 92782219005, 92782219006, 92782219007

METHOD BLANK: 4725110 Matrix: Water
Associated Lab Samples: 92782219001, 92782219002, 92782219003, 92782219004, 92782219005, 92782219006, 92782219007

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	

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

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

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

QUALITY CONTROL DATA

Project: YAT AP-2
Pace Project No.: 92782219

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: 92782219008, 92782219009, 92782219010

METHOD BLANK: 4725120 Matrix: Water
Associated Lab Samples: 92782219008, 92782219009, 92782219010

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

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

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

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

QUALITY CONTROL DATA

Project: YAT AP-2
Pace Project No.: 92782219

QC Batch: 922646
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: WC 6020B MET
Laboratory: Pace Analytical Services - West Columbia
Associated Lab Samples: 92782219001, 92782219002, 92782219003, 92782219004, 92782219005, 92782219006, 92782219007, 92782219008, 92782219009, 92782219010

METHOD BLANK: 4740655 Matrix: Water
Associated Lab Samples: 92782219001, 92782219002, 92782219003, 92782219004, 92782219005, 92782219006, 92782219007, 92782219008, 92782219009, 92782219010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00050	03/20/25 10:00	
Arsenic	mg/L	ND	0.0050	0.0012	03/20/25 10:00	
Barium	mg/L	ND	0.0050	0.0012	03/20/25 10:00	
Beryllium	mg/L	ND	0.00050	0.00015	03/20/25 10:00	
Boron	mg/L	ND	0.040	0.0062	03/20/25 16:38	
Cadmium	mg/L	ND	0.00050	0.00012	03/20/25 10:00	
Calcium	mg/L	ND	1.0	0.10	03/20/25 10:00	
Chromium	mg/L	ND	0.0050	0.0012	03/20/25 10:00	
Cobalt	mg/L	ND	0.0050	0.0012	03/20/25 10:00	
Lead	mg/L	ND	0.0010	0.00025	03/20/25 10:00	
Magnesium	mg/L	ND	0.050	0.010	03/20/25 10:00	
Molybdenum	mg/L	ND	0.010	0.0025	03/20/25 10:00	
Potassium	mg/L	ND	0.50	0.10	03/20/25 10:00	
Selenium	mg/L	ND	0.0050	0.0012	03/20/25 10:00	
Sodium	mg/L	ND	1.0	0.15	03/20/25 10:00	
Thallium	mg/L	ND	0.0010	0.00015	03/20/25 10:00	

LABORATORY CONTROL SAMPLE: 4740656

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	0.10	103	80-120	
Barium	mg/L	0.1	0.098	98	80-120	
Beryllium	mg/L	0.1	0.10	103	80-120	
Boron	mg/L	0.1	0.099	99	80-120	
Cadmium	mg/L	0.1	0.099	99	80-120	
Calcium	mg/L	1	1.0	105	80-120	
Chromium	mg/L	0.1	0.10	102	80-120	
Cobalt	mg/L	0.1	0.11	106	80-120	
Lead	mg/L	0.1	0.11	106	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	108	80-120	
Selenium	mg/L	0.1	0.10	102	80-120	
Sodium	mg/L	1	1.0	104	80-120	
Thallium	mg/L	0.1	0.10	102	80-120	

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

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

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

QUALITY CONTROL DATA

Project: YAT AP-2
Pace Project No.: 92782219

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4740667 4740668

Parameter	Units	92779989005 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	0.097	96	97	75-125	0	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	101	100	75-125	1	20	
Barium	mg/L	ND	0.1	0.1	0.098	0.098	98	97	75-125	0	20	
Beryllium	mg/L	ND	0.1	0.1	0.10	0.10	102	100	75-125	2	20	
Boron	mg/L	ND	0.1	0.1	0.099	0.098	99	98	75-125	1	20	
Cadmium	mg/L	ND	0.1	0.1	0.099	0.099	99	99	75-125	0	20	
Calcium	mg/L	ND	1	1	1.0	1.0	104	101	75-125	3	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	101	102	75-125	1	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	104	104	75-125	0	20	
Lead	mg/L	ND	0.1	0.1	0.10	0.10	104	102	75-125	2	20	
Magnesium	mg/L	ND	1	1	1.0	1.0	101	100	75-125	1	20	
Molybdenum	mg/L	ND	0.1	0.1	0.097	0.098	97	98	75-125	0	20	
Potassium	mg/L	ND	1	1	1.0	1.0	102	105	75-125	2	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	102	102	75-125	1	20	
Sodium	mg/L	ND	1	1	1.0	1.0	104	102	75-125	2	20	
Thallium	mg/L	ND	0.1	0.1	0.097	0.098	97	98	75-125	2	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

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

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

QUALIFIERS

Project: YAT AP-2
Pace Project No.: 92782219

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.

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

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT AP-2
Pace Project No.: 92782219

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92782219001	**YAT-YGWC-27I**	3015	2467118	EPA 6020B	2467118
92782219002	**YAT-YGWC-28S**	3015	2467118	EPA 6020B	2467118
92782219003	**YAT-YGWC-28I**	3015	2467118	EPA 6020B	2467118
92782219004	**YAT-AP2-FD-1**	3015	2467118	EPA 6020B	2467118
92782219005	**YAT-AP2-EB-1**	3015	2467118	EPA 6020B	2467118
92782219006	**YAT-AP2-FB-1**	3015	2467118	EPA 6020B	2467118
92782219007	**YAT-YGWC-29IB**	3015	2467118	EPA 6020B	2467118
92782219008	**YAT-YGWC-26S**	3015	2467118	EPA 6020B	2467118
92782219009	**YAT-YGWC-26I**	3015	2467118	EPA 6020B	2467118
92782219010	**YAT-YGWC-27S**	3015	2467118	EPA 6020B	2467118
92782219001	**YAT-YGWC-27I**	EPA 7470A	919473	EPA 7470A	919512
92782219002	**YAT-YGWC-28S**	EPA 7470A	919473	EPA 7470A	919512
92782219003	**YAT-YGWC-28I**	EPA 7470A	919473	EPA 7470A	919512
92782219004	**YAT-AP2-FD-1**	EPA 7470A	919473	EPA 7470A	919512
92782219005	**YAT-AP2-EB-1**	EPA 7470A	919473	EPA 7470A	919512
92782219006	**YAT-AP2-FB-1**	EPA 7470A	919473	EPA 7470A	919512
92782219007	**YAT-YGWC-29IB**	EPA 7470A	919473	EPA 7470A	919512
92782219008	**YAT-YGWC-26S**	EPA 7470A	919516	EPA 7470A	919817
92782219009	**YAT-YGWC-26I**	EPA 7470A	919516	EPA 7470A	919817
92782219010	**YAT-YGWC-27S**	EPA 7470A	919516	EPA 7470A	919817
92782219001	**YAT-YGWC-27I**	SM 2320B-2011	920471		
92782219002	**YAT-YGWC-28S**	SM 2320B-2011	920471		
92782219003	**YAT-YGWC-28I**	SM 2320B-2011	920471		
92782219004	**YAT-AP2-FD-1**	SM 2320B-2011	920471		
92782219005	**YAT-AP2-EB-1**	SM 2320B-2011	920471		
92782219006	**YAT-AP2-FB-1**	SM 2320B-2011	920888		
92782219007	**YAT-YGWC-29IB**	SM 2320B-2011	920888		
92782219008	**YAT-YGWC-26S**	SM 2320B-2011	920556		
92782219009	**YAT-YGWC-26I**	SM 2320B-2011	920556		
92782219010	**YAT-YGWC-27S**	SM 2320B-2011	920556		
92782219001	**YAT-YGWC-27I**	SM 2540C-2015	919959		
92782219002	**YAT-YGWC-28S**	SM 2540C-2015	919959		
92782219003	**YAT-YGWC-28I**	SM 2540C-2015	919959		
92782219004	**YAT-AP2-FD-1**	SM 2540C-2015	919959		
92782219005	**YAT-AP2-EB-1**	SM 2540C-2015	919959		
92782219006	**YAT-AP2-FB-1**	SM 2540C-2015	919959		
92782219007	**YAT-YGWC-29IB**	SM 2540C-2015	919959		
92782219008	**YAT-YGWC-26S**	SM 2540C-2015	920258		
92782219009	**YAT-YGWC-26I**	SM 2540C-2015	920258		
92782219010	**YAT-YGWC-27S**	SM 2540C-2015	920258		
92782219001	**YAT-YGWC-27I**	EPA 300.0 Rev 2.1 1993	919451		
92782219002	**YAT-YGWC-28S**	EPA 300.0 Rev 2.1 1993	919451		
92782219003	**YAT-YGWC-28I**	EPA 300.0 Rev 2.1 1993	919451		
92782219004	**YAT-AP2-FD-1**	EPA 300.0 Rev 2.1 1993	919451		
92782219005	**YAT-AP2-EB-1**	EPA 300.0 Rev 2.1 1993	919451		

REPORT OF LABORATORY ANALYSIS

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

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT AP-2
Pace Project No.: 92782219

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92782219006	**YAT-AP2-FB-1**	EPA 300.0 Rev 2.1 1993	919451		
92782219007	**YAT-YGWC-29IB**	EPA 300.0 Rev 2.1 1993	919451		
92782219008	**YAT-YGWC-26S**	EPA 300.0 Rev 2.1 1993	919454		
92782219009	**YAT-YGWC-26I**	EPA 300.0 Rev 2.1 1993	919454		
92782219010	**YAT-YGWC-27S**	EPA 300.0 Rev 2.1 1993	919454		
92782219001	**YAT-YGWC-27I**	EPA 3005A	922646	EPA 6020B	923912
92782219002	**YAT-YGWC-28S**	EPA 3005A	922646	EPA 6020B	923912
92782219003	**YAT-YGWC-28I**	EPA 3005A	922646	EPA 6020B	923912
92782219004	**YAT-AP2-FD-1**	EPA 3005A	922646	EPA 6020B	923912
92782219005	**YAT-AP2-EB-1**	EPA 3005A	922646	EPA 6020B	923912
92782219006	**YAT-AP2-FB-1**	EPA 3005A	922646	EPA 6020B	923912
92782219007	**YAT-YGWC-29IB**	EPA 3005A	922646	EPA 6020B	923912
92782219008	**YAT-YGWC-26S**	EPA 3005A	922646	EPA 6020B	923912
92782219009	**YAT-YGWC-26I**	EPA 3005A	922646	EPA 6020B	923912
92782219010	**YAT-YGWC-27S**	EPA 3005A	922646	EPA 6020B	923912

This report shall not be reproduced, except in full,
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 ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

WO# : 92782219

92782219

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 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:

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

Effective Date: 05/24/2024

WO# : 92782219

PM: BV Due Date: 03/13/25

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)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SPST-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH4)2SO4 (9.3-9.7)	AGDU-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*																							
3		2	1		2*		2*																							
4		2	1		2*		2*																							
5		2	1		2*		2*																							
6		3	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.

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 #

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

lient_____ 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																						
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.

*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)	15ON	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)	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			2		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

92782219

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-202551	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-2		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) 2L, (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-YGWC-26S	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWC-26I	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWC-27S	WG	G						7		X	X	X	X	X	See Remarks	
YAT-YGWC-27I	WG	G	02/26/25	1740	—	—		7		X	X	X	X	X	See Remarks 001	
YAT-YGWC-28S	WG	G	02/26/25	1335	—	—		7		X	X	X	X	X	See Remarks 002	
YAT-YGWC-28I	WG	G	02/26/25	1535	—	—		7		X	X	X	X	X	See Remarks 003	
YAT-AP2-FD-1	WG	G	02/26/25	—	—	—		7		X	X	X	X	X	See Remarks 004	
YAT-AP2-EB-1	WG	G	02/26/25	1445	—	—		7		X	X	X	X	X	See Remarks 005	
YAT-AP2-FB-1	WG	G	02/26/25	1730	—	—		7		X	X	X	X	X	See Remarks 006	
YAT-YGWC-29IB	WG	G	02/26/25	1005	—	—		7		X	X	X	X	X	See Remarks 007	

Lab Use Only: Proj. Mgr: Bonnie Vang; Acct.Num / 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) - 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:
1	David Prouty	02/27/25 0810	Lorraine Dorr / Arcadis	2/27/25 0810
2	Lorraine Dorr / Arcadis	2/27/25 1005	Tyan Williams / Pace	2/27/25 1005
3	Tyan Williams / Pace	2/27/25 1340	Chuck Hardy	2/27/25 1340
4				

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_C82123 ©

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: 2/25/25 GW

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:

DC#_Title: ENV-FRM-HUNT-0083 v05_Sample [illegible]

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 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)	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)	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.

Dualtrax ID: 69614

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

March 25, 2025

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

RE: Project: YAT AP-2-RADs
Pace Project No.: 92782220

Dear Trey Singleton:

Enclosed are the analytical results for sample(s) received by the laboratory between February 27, 2025 and February 28, 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

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

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

CERTIFICATIONS

Project: YAT AP-2-RADs
Pace Project No.: 92782220

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

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

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

SAMPLE SUMMARY

Project: YAT AP-2-RADs
Pace Project No.: 92782220

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92782220001	**YAT-YGWC-27I**	Water	02/26/25 17:40	02/27/25 13:40
92782220002	**YAT-YGWC-28S**	Water	02/26/25 13:35	02/27/25 13:40
92782220003	**YAT-YGWC-28I**	Water	02/26/25 15:35	02/27/25 13:40
92782220004	**YAT-AP2-FD-1**	Water	02/26/25 00:00	02/27/25 13:40
92782220005	**YAT-AP2-EB-1**	Water	02/26/25 14:45	02/27/25 13:40
92782220006	**YAT-AP2-FB-1**	Water	02/26/25 17:30	02/27/25 13:40
92782220007	**YAT-YGWC-29IB**	Water	02/26/25 10:05	02/27/25 13:40
92782220008	**YAT-YGWC-26S**	Water	02/27/25 12:00	02/28/25 11:00
92782220009	**YAT-YGWC-26I**	Water	02/27/25 10:35	02/28/25 11:00
92782220010	**YAT-YGWC-27S**	Water	02/27/25 09:20	02/28/25 11:00

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

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

SAMPLE ANALYTE COUNT

Project: YAT AP-2-RADs
Pace Project No.: 92782220

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92782220001	**YAT-YGWC-27I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92782220002	**YAT-YGWC-28S**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92782220003	**YAT-YGWC-28I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92782220004	**YAT-AP2-FD-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92782220005	**YAT-AP2-EB-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92782220006	**YAT-AP2-FB-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92782220007	**YAT-YGWC-29IB**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92782220008	**YAT-YGWC-26S**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92782220009	**YAT-YGWC-26I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92782220010	**YAT-YGWC-27S**	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

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

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

SUMMARY OF DETECTION

Project: YAT AP-2-RADs
Pace Project No.: 92782220

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92782220001	**YAT-YGWC-27I**					
EPA 9315	Radium-226	1.76 ± 0.438 (0.384) C:70% T:NA	pCi/L		03/20/25 13:30	
EPA 9320	Radium-228	1.20 ± 0.501 (0.820) C:76% T:95%	pCi/L		03/20/25 14:08	
Total Radium Calculation	Total Radium	2.96 ± 0.939 (1.20)	pCi/L		03/21/25 15:45	
92782220002	**YAT-YGWC-28S**					
EPA 9315	Radium-226	0.254U ± 0.173 (0.316) C:84% T:NA	pCi/L		03/20/25 13:30	
EPA 9320	Radium-228	0.910U ± 0.562 (1.08) C:68% T:93%	pCi/L		03/20/25 14:08	
Total Radium Calculation	Total Radium	1.16U ± 0.735 (1.40)	pCi/L		03/21/25 15:45	
92782220003	**YAT-YGWC-28I**					
EPA 9315	Radium-226	0.143U ± 0.138 (0.269) C:73% T:NA	pCi/L		03/20/25 13:28	
EPA 9320	Radium-228	0.612U ± 0.536 (1.10) C:69% T:88%	pCi/L		03/20/25 14:08	
Total Radium Calculation	Total Radium	0.755U ± 0.674 (1.37)	pCi/L		03/21/25 15:45	
92782220004	**YAT-AP2-FD-1**					
EPA 9315	Radium-226	0.0866U ± 0.135 (0.301) C:85% T:NA	pCi/L		03/20/25 13:28	
EPA 9320	Radium-228	0.453U ± 0.492 (1.03) C:71% T:94%	pCi/L		03/20/25 14:09	
Total Radium Calculation	Total Radium	0.540U ± 0.627 (1.33)	pCi/L		03/21/25 15:45	

REPORT OF LABORATORY ANALYSIS

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

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

SUMMARY OF DETECTION

Project: YAT AP-2-RADs
Pace Project No.: 92782220

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92782220005	**YAT-AP2-EB-1**					
EPA 9315	Radium-226	-0.0159U ± 0.0907 (0.257) C:82% T:NA	pCi/L		03/20/25 15:14	
EPA 9320	Radium-228	0.777U ± 0.460 (0.866) C:75% T:96%	pCi/L		03/20/25 14:09	
Total Radium Calculation	Total Radium	0.777U ± 0.551 (1.12)	pCi/L		03/21/25 15:45	
92782220006	**YAT-AP2-FB-1**					
EPA 9315	Radium-226	-0.107U ± 0.0984 (0.314) C:85% T:NA	pCi/L		03/20/25 15:14	
EPA 9320	Radium-228	0.809U ± 0.479 (0.904) C:77% T:95%	pCi/L		03/20/25 14:09	
Total Radium Calculation	Total Radium	0.809U ± 0.577 (1.22)	pCi/L		03/21/25 15:45	
92782220007	**YAT-YGWC-29IB**					
EPA 9315	Radium-226	0.121U ± 0.140 (0.295) C:79% T:NA	pCi/L		03/20/25 15:14	
EPA 9320	Radium-228	1.18 ± 0.590 (1.05) C:66% T:97%	pCi/L		03/20/25 14:09	
Total Radium Calculation	Total Radium	1.30U ± 0.730 (1.35)	pCi/L		03/21/25 15:45	
92782220008	**YAT-YGWC-26S**					
EPA 9315	Radium-226	0.0459U ± 0.122 (0.292) C:82% T:NA	pCi/L		03/20/25 15:15	
EPA 9320	Radium-228	0.379U ± 0.360 (0.735) C:72% T:89%	pCi/L		03/20/25 14:10	
Total Radium Calculation	Total Radium	0.425U ± 0.482 (1.03)	pCi/L		03/21/25 15:45	

REPORT OF LABORATORY ANALYSIS

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

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

SUMMARY OF DETECTION

Project: YAT AP-2-RADs
Pace Project No.: 92782220

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92782220009	**YAT-YGWC-26I**					
EPA 9315	Radium-226	0.179U ± 0.132 (0.229) C:86% T:NA	pCi/L		03/20/25 15:24	
EPA 9320	Radium-228	-0.0651U ± 0.384 (0.898) C:76% T:86%	pCi/L		03/21/25 10:50	
Total Radium Calculation	Total Radium	0.179U ± 0.516 (1.13)	pCi/L		03/24/25 12:03	
92782220010	**YAT-YGWC-27S**					
EPA 9315	Radium-226	0.155U ± 0.143 (0.285) C:90% T:NA	pCi/L		03/20/25 15:24	
EPA 9320	Radium-228	0.459U ± 0.459 (0.953) C:76% T:85%	pCi/L		03/21/25 10:51	
Total Radium Calculation	Total Radium	0.614U ± 0.602 (1.24)	pCi/L		03/24/25 12:03	

REPORT OF LABORATORY ANALYSIS

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

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-2-RADs
Pace Project No.: 92782220

Sample: YAT-YGWC-27I **Lab ID: 92782220001** Collected: 02/26/25 17:40 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	**1.76 ± 0.438 (0.384) C:70% T:NA**	pCi/L	03/20/25 13:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.20 ± 0.501 (0.820) C:76% T:95%**	pCi/L	03/20/25 14:08	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.96 ± 0.939 (1.20)**	pCi/L	03/21/25 15:45	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-2-RADs
Pace Project No.: 92782220

Sample: YAT-YGWC-28S **Lab ID: 92782220002** Collected: 02/26/25 13:35 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	**0.254U ± 0.173 (0.316) C:84% T:NA**	pCi/L	03/20/25 13:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.910U ± 0.562 (1.08) C:68% T:93%**	pCi/L	03/20/25 14:08	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.16U ± 0.735 (1.40)**	pCi/L	03/21/25 15:45	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-2-RADs
Pace Project No.: 92782220

Sample: YAT-YGWC-28I **Lab ID: 92782220003** Collected: 02/26/25 15:35 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	**0.143U ± 0.138 (0.269) C:73% T:NA**	pCi/L	03/20/25 13:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.612U ± 0.536 (1.10) C:69% T:88%**	pCi/L	03/20/25 14:08	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.755U ± 0.674 (1.37)**	pCi/L	03/21/25 15:45	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-2-RADs
Pace Project No.: 92782220

Sample: YAT-AP2-FD-1 **Lab ID: 92782220004** 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	**0.0866U ± 0.135 (0.301) C:85% T:NA**	pCi/L	03/20/25 13:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.453U ± 0.492 (1.03) C:71% T:94%**	pCi/L	03/20/25 14:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.540U ± 0.627 (1.33)**	pCi/L	03/21/25 15:45	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-2-RADs
Pace Project No.: 92782220

Sample: YAT-AP2-EB-1 **Lab ID: 92782220005** Collected: 02/26/25 14:45 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	**-0.0159U ± 0.0907 (0.257) C:82% T:NA**	pCi/L	03/20/25 15:14	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.777U ± 0.460 (0.866) C:75% T:96%**	pCi/L	03/20/25 14:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.777U ± 0.551 (1.12)**	pCi/L	03/21/25 15:45	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-2-RADs
Pace Project No.: 92782220

Sample: YAT-AP2-FB-1 **Lab ID: 92782220006** Collected: 02/26/25 17:30 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	**-0.107U ± 0.0984 (0.314) C:85% T:NA**	pCi/L	03/20/25 15:14	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.809U ± 0.479 (0.904) C:77% T:95%**	pCi/L	03/20/25 14:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.809U ± 0.577 (1.22)**	pCi/L	03/21/25 15:45	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-2-RADs
Pace Project No.: 92782220

Sample: YAT-YGWC-29IB **Lab ID: 92782220007** Collected: 02/26/25 10:05 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	**0.121U ± 0.140 (0.295) C:79% T:NA**	pCi/L	03/20/25 15:14	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.18 ± 0.590 (1.05) C:66% T:97%**	pCi/L	03/20/25 14:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.30U ± 0.730 (1.35)**	pCi/L	03/21/25 15:45	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-2-RADs
Pace Project No.: 92782220

Sample: YAT-YGWC-26S **Lab ID: 92782220008** Collected: 02/27/25 12:00 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	**0.0459U ± 0.122 (0.292) C:82% T:NA**	pCi/L	03/20/25 15:15	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.379U ± 0.360 (0.735) C:72% T:89%**	pCi/L	03/20/25 14:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.425U ± 0.482 (1.03)**	pCi/L	03/21/25 15:45	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-2-RADs
Pace Project No.: 92782220

Sample: YAT-YGWC-26I **Lab ID: 92782220009** Collected: 02/27/25 10:35 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	**0.179U ± 0.132 (0.229) C:86% T:NA**	pCi/L	03/20/25 15:24	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.0651U ± 0.384 (0.898) C:76% T:86%**	pCi/L	03/21/25 10:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.179U ± 0.516 (1.13)**	pCi/L	03/24/25 12:03	7440-14-4	

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

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-2-RADs
Pace Project No.: 92782220

Sample: YAT-YGWC-27S **Lab ID: 92782220010** Collected: 02/27/25 09:20 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	**0.155U ± 0.143 (0.285) C:90% T:NA**	pCi/L	03/20/25 15:24	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.459U ± 0.459 (0.953) C:76% T:85%**	pCi/L	03/21/25 10:51	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.614U ± 0.602 (1.24)**	pCi/L	03/24/25 12:03	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT AP-2-RADs
Pace Project No.: 92782220

QC Batch: 730410
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92782220001, 92782220002, 92782220003, 92782220004, 92782220005, 92782220006, 92782220007, 92782220008

METHOD BLANK: 3555194 Matrix: Water
Associated Lab Samples: 92782220001, 92782220002, 92782220003, 92782220004, 92782220005, 92782220006, 92782220007, 92782220008

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	

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

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

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT AP-2-RADs
Pace Project No.: 92782220

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: 92782220001, 92782220002, 92782220003, 92782220004, 92782220005, 92782220006, 92782220007, 92782220008

METHOD BLANK: 3555191 Matrix: Water
Associated Lab Samples: 92782220001, 92782220002, 92782220003, 92782220004, 92782220005, 92782220006, 92782220007, 92782220008

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	

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

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

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT AP-2-RADs
Pace Project No.: 92782220

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: 92782220009, 92782220010

METHOD BLANK: 3555206 Matrix: Water
Associated Lab Samples: 92782220009, 92782220010

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	

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

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

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT AP-2-RADs
Pace Project No.: 92782220

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: 92782220009, 92782220010

METHOD BLANK: 3555202 Matrix: Water
Associated Lab Samples: 92782220009, 92782220010

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	

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

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

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

QUALIFIERS

Project: YAT AP-2-RADs
Pace Project No.: 92782220

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.

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

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT AP-2-RADs
Pace Project No.: 92782220

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92782220001	**YAT-YGWC-27I**	EPA 9315	730410		
92782220002	**YAT-YGWC-28S**	EPA 9315	730410		
92782220003	**YAT-YGWC-28I**	EPA 9315	730410		
92782220004	**YAT-AP2-FD-1**	EPA 9315	730410		
92782220005	**YAT-AP2-EB-1**	EPA 9315	730410		
92782220006	**YAT-AP2-FB-1**	EPA 9315	730410		
92782220007	**YAT-YGWC-29IB**	EPA 9315	730410		
92782220008	**YAT-YGWC-26S**	EPA 9315	730410		
92782220009	**YAT-YGWC-26I**	EPA 9315	730414		
92782220010	**YAT-YGWC-27S**	EPA 9315	730414		
92782220001	**YAT-YGWC-27I**	EPA 9320	730407		
92782220002	**YAT-YGWC-28S**	EPA 9320	730407		
92782220003	**YAT-YGWC-28I**	EPA 9320	730407		
92782220004	**YAT-AP2-FD-1**	EPA 9320	730407		
92782220005	**YAT-AP2-EB-1**	EPA 9320	730407		
92782220006	**YAT-AP2-FB-1**	EPA 9320	730407		
92782220007	**YAT-YGWC-29IB**	EPA 9320	730407		
92782220008	**YAT-YGWC-26S**	EPA 9320	730407		
92782220009	**YAT-YGWC-26I**	EPA 9320	730412		
92782220010	**YAT-YGWC-27S**	EPA 9320	730412		
92782220001	**YAT-YGWC-27I**	Total Radium Calculation	734608		
92782220002	**YAT-YGWC-28S**	Total Radium Calculation	734608		
92782220003	**YAT-YGWC-28I**	Total Radium Calculation	734608		
92782220004	**YAT-AP2-FD-1**	Total Radium Calculation	734608		
92782220005	**YAT-AP2-EB-1**	Total Radium Calculation	734608		
92782220006	**YAT-AP2-FB-1**	Total Radium Calculation	734608		
92782220007	**YAT-YGWC-29IB**	Total Radium Calculation	734608		
92782220008	**YAT-YGWC-26S**	Total Radium Calculation	734608		
92782220009	**YAT-YGWC-26I**	Total Radium Calculation	734856		
92782220010	**YAT-YGWC-27S**	Total Radium Calculation	734856		

This report shall not be reproduced, except in full,
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# : 92782220

92782220

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

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

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

Date/Initials Person Examining Contents: 2/22/25 EAH

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? -Includes Date/Time/ID/Analysis Matrix: W	☑ 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:

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

Effective Date: 05/24/2024

WO# : 92782220

PM: BV Due Date: 03/20/25

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-)	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)	AGGU-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		3	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.

Qualtrax ID: 69614

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)	BP1S-1 liter Plastic H2SO4 (pH < 2) (Cl-)	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.

*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)	15(1)N	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)	DG84-40 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)	DG8U-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			2		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: 92782220

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.846.3917
		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-2		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) 2L, (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
YAT-YGWC-26S	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWC-26I	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWC-27S	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWC-27I	WG	G	02/26/25	1740	—	—		7		X	X	X	X	X	See Remarks 001
YAT-YGWC-28S	WG	G	02/26/25	1335	—	—		7		X	X	X	X	X	See Remarks 002
YAT-YGWC-28I	WG	G	02/26/25	1535	—	—		7		X	X	X	X	X	See Remarks 003
YAT-AP2-FD-1	WG	G	02/26/25	—	—	—		7		X	X	X	X	X	See Remarks 004
YAT-AP2-EB-1	WG	G	02/26/25	1445	—	—		7		X	X	X	X	X	See Remarks 005
YAT-AP2-FB-1	WG	G	02/26/25	1730	—	—		7		X	X	X	X	X	See Remarks 006
YAT-YGWC-29IB	WG	G	02/26/25	1005	—	—		7		X	X	X	X	X	See Remarks 007

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	02/27/25 0810	Lorraine Jon / ARCADIS	2/27/25 0810
Lorraine Jon / Arcadis	2/27/25 1005	Ryan Williams / Pace	2/27/25 1005
Ryan Williams / Pace	2/27/25 1340	Chandler Hurley 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-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 #:

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?	☑ 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)	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

92782220

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-2	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-YGWC-26S	WG	G	2/27/25	1200	—	—		7		X	X	X	X	X	See Remarks 008
YAT-YGWC-26I	WG	G	2/27/25	1035	—	—		7		X	X	X	X	X	See Remarks 009
YAT-YGWC-27S	WG	G	2/27/25	0920	—	—		7		X	X	X	X	X	See Remarks 010
YAT-YGWC-27I	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWC-28S	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWC-28I	WG	G						7		X	X	X	X	X	See Remarks
YAT-AP2-FD-1	WG	G						7		X	X	X	X	X	See Remarks
YAT-AP2-EB-1	WG	G						7		X	X	X	X	X	See Remarks
YAT-AP2-FB-1	WG	G						7		X	X	X	X	X	See Remarks
YAT-YGWC-29IB	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 Beauty
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) Amy Brown / Arcadis	Date/Time: 2/27/25 1700	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

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 ©

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

3/21/25

VAL
3/21/25

Quality Control Sample Performance Assessment

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

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

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test:	Ra-226
Analyst:	SLC
Date:	3/10/2025
Worklist:	83891
Matrix:	W

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

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

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

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-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

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 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

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	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

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

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

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	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

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

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

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	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

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® 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

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® 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

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

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

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

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

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

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

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

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

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

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

REPORT OF LABORATORY ANALYSIS

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

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

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

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

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

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

REPORT OF LABORATORY ANALYSIS

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

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

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

REPORT OF LABORATORY ANALYSIS

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

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

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	

REPORT OF LABORATORY ANALYSIS

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

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

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	

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

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

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	

REPORT OF LABORATORY ANALYSIS

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

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

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	

REPORT OF LABORATORY ANALYSIS

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

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

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	

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

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

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	

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

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

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	

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

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

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	

REPORT OF LABORATORY ANALYSIS

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

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

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	

REPORT OF LABORATORY ANALYSIS

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

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

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	

REPORT OF LABORATORY ANALYSIS

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

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

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	

REPORT OF LABORATORY ANALYSIS

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

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

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	

REPORT OF LABORATORY ANALYSIS

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

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

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	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(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	

REPORT OF LABORATORY ANALYSIS

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

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

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	

REPORT OF LABORATORY ANALYSIS

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

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

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	

REPORT OF LABORATORY ANALYSIS

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

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

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	

REPORT OF LABORATORY ANALYSIS

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

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

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	

REPORT OF LABORATORY ANALYSIS

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

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

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	

REPORT OF LABORATORY ANALYSIS

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

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

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	

REPORT OF LABORATORY ANALYSIS

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

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

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	

REPORT OF LABORATORY ANALYSIS

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

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

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	

REPORT OF LABORATORY ANALYSIS

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

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

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	

REPORT OF LABORATORY ANALYSIS

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

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

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	

REPORT OF LABORATORY ANALYSIS

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

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

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	

REPORT OF LABORATORY ANALYSIS

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

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

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	

REPORT OF LABORATORY ANALYSIS

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

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

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	

REPORT OF LABORATORY ANALYSIS

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

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

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	

REPORT OF LABORATORY ANALYSIS

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

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

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	

REPORT OF LABORATORY ANALYSIS

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

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

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	

REPORT OF LABORATORY ANALYSIS

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

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

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	

REPORT OF LABORATORY ANALYSIS

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

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

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	

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

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

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

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	

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

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

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

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	

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

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

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

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	

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

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

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

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	

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

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

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

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

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

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

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

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	

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

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

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

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	

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

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

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

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	

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

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

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

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	

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

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

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

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	

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

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

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

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	

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

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

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

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	

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

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

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

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	

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

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

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

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	

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

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

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

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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(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.

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

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

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

REPORT OF LABORATORY ANALYSIS

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

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

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		

REPORT OF LABORATORY ANALYSIS

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

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

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

REPORT OF LABORATORY ANALYSIS

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

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

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

This report shall not be reproduced, except in full,
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 ☐

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

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-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

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 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

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	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

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

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

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	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

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

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

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	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

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® 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

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® 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

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

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

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

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

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

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

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

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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(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

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

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

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

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

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	

REPORT OF LABORATORY ANALYSIS

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

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
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	

REPORT OF LABORATORY ANALYSIS

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

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
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

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

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
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	

REPORT OF LABORATORY ANALYSIS

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

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
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	

REPORT OF LABORATORY ANALYSIS

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

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
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	

REPORT OF LABORATORY ANALYSIS

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

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

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	

REPORT OF LABORATORY ANALYSIS

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

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

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	

REPORT OF LABORATORY ANALYSIS

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

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

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	

REPORT OF LABORATORY ANALYSIS

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

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

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	

REPORT OF LABORATORY ANALYSIS

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

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

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	

REPORT OF LABORATORY ANALYSIS

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

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

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	

REPORT OF LABORATORY ANALYSIS

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

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

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	

REPORT OF LABORATORY ANALYSIS

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

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

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	

REPORT OF LABORATORY ANALYSIS

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

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

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	

REPORT OF LABORATORY ANALYSIS

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

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

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	

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

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

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	

REPORT OF LABORATORY ANALYSIS

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

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

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	

REPORT OF LABORATORY ANALYSIS

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

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

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	

REPORT OF LABORATORY ANALYSIS

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

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

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	

REPORT OF LABORATORY ANALYSIS

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

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

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	

REPORT OF LABORATORY ANALYSIS

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

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

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	

REPORT OF LABORATORY ANALYSIS

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

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

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	

REPORT OF LABORATORY ANALYSIS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(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	

REPORT OF LABORATORY ANALYSIS

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

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

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	

REPORT OF LABORATORY ANALYSIS

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

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

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	

REPORT OF LABORATORY ANALYSIS

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

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

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	

REPORT OF LABORATORY ANALYSIS

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

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

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	

REPORT OF LABORATORY ANALYSIS

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

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

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	

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

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

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	

REPORT OF LABORATORY ANALYSIS

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

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

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	

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

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

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

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	

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

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

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

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	

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

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

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

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	

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

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

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

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.

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

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

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		

REPORT OF LABORATORY ANALYSIS

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

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

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		

This report shall not be reproduced, except in full,
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# : 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

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:

* 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

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 [✓] 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

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-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

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-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

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-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

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):	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

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 [✓] 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

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

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

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

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-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S, YGWC-29IB
Chloride	YGWC-26I, YGWC-26S, YGWC-27I, YGWC-28S

GROUNDWATER STATS CONSULTING

August 29, 2025

Southern Company Services
Attn: Mr. Trey Singleton
3535 Colonnade Parkway
Birmingham, AL 35243

Re: Plant Yates Ash Pond 2 (AP-2)
February 2025 Statistical Analysis

Dear Mr. Singleton,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the February 2025 semi-annual Groundwater Detection and Assessment Monitoring statistical analysis for Georgia Power Company's Plant Yates AP-2. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals (CCR) from Electric Utilities (CCR Rule, 2015), the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management Chapter 391-3-4-.10, and follows the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Sampling for the Appendix III parameters began in 2016, and at least 8 background samples were collected at each of the groundwater monitoring wells. Semi-annual sampling of the majority of Appendix IV constituents has been performed for several years in accordance with the Georgia Department of Natural Resources, Environmental Protection Division groundwater monitoring regulations. A list of all parameters is provided below.

The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:**
  - **AP-1:** YGWA-47

        - **AP-2:** YGWA-1D, YGWA-1I, YGWA-2I, YGWA-3D, YGWA-3I, YGWA-14S, and YGWA-30I
        - **Gypsum Landfill:** GWA-2
        - **AMA-R6:** YGWA-17S, YGWA-18I, YGWA-18S, YGWA-20S, YGWA-21I, YGWA-39, YGWA-40, YGWA-4I, YGWA-5D, and YGWA-5I
    - **Downgradient wells:** YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S, and YGWC-29IB

Note that downgradient well YGWC-29IB was installed as a replacement well for YGWC-29IA and was first sampled in February 2024. Data from downgradient wells YGWC-29IA and YGWC-29IB were combined and are plotted under well YGWC-29IB. In the current analysis, reported observations from the February 2025 sample event for Appendix III constituents at all downgradient wells are compared to interwell prediction limits for Appendix III constituents.

When a minimum of 8 samples is collected from new well YGWC-29IB, the Mann-Whitney test of medians will be used to evaluate whether the medians are similar to those from previously installed well YGWC-29IA. When the medians are statistically different for Appendix IV constituents at the 99% confidence level, the historical record will be truncated so that only data from new well YGWC-29IB, which represents current groundwater quality, is used in construction of confidence intervals for comparison to respective Groundwater Protection Standards.

All data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Kristina Rayner, Founder and Senior Statistician 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 well/constituent pairs containing 100% non-detects follows this letter.

Combined upgradient well data from all units at Plant Yates are utilized to construct statistical limits for Appendix III and IV parameters. 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 used to construct interwell prediction limits and upper tolerance limits.

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.

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).

Summary of Statistical Methods – Appendix III and IV Parameters:

Based on the background screening performed in 2017 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 prediction 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 prediction 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 Update – Appendix III and IV Constituents - Conducted in March 2020

Outlier Analysis

The original background screening was conducted in 2017 by MacStat Consulting. Values identified as outliers were flagged in the database and excluded prior to construction of statistical limits. Interwell prediction limits, combined with a 1-of-2 resample plan, were recommended. During the March 2020 1st semi-annual analysis, data were screened for the purpose of updating the statistical limits as described below.

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 upgradient wells for Appendix III and all wells for Appendix IV parameters are 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, a couple outliers were identified. While this is not the case in the present data set, 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 may 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.

Only one of the outliers identified by Tukey's method (combined radium 226 + 228 in downgradient well YGWC-26I) was flagged in the database as all other values were either similar to remaining measurements within the same well and neighboring wells, or the values were reported non-detects. 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 test was used to evaluate all data at upgradient wells for Appendix III parameters and all wells for Appendix IV parameters to identify statistically significant increasing or decreasing. 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 for the Appendix III and IV parameters showed statistically significant decreasing trends for a handful of constituents and statistically significant increasing trends for calcium, cobalt, combined radium 226 + 228, and sulfate. Most of the trends noted were relatively low in magnitude when compared to average concentrations, and the background time period is short with only three years of record, making it difficult to separate trends from normal year-to-year variation; therefore, no adjustments were made to the data sets. If the observed decreasing or increasing trends persist over a longer time frame, some records may need to be truncated.

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 upgradient 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's 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 upgradient 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 and, 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 2025

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 when constructing the statistical limit for TDS which resulted in a nonparametric limit. Therefore, the highest value observed during the February 2024 event at upgradient well YGWA-5D was flagged for this constituent in order to maintain a statistical limit that is conservative (i.e., lower) from a regulatory perspective. As mentioned above, a previously flagged value for pH at upgradient well YGWA-47 was unflagged during this analysis. 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 pooled upgradient well data through February 2025 (Figure D). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The February 2025 sample from each downgradient well is compared to the background limit to determine whether initial exceedances are present.

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance

is confirmed. When a resample confirms the initial exceedance, a statistically significant increase (SSI) is identified and further research would be required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result 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. Prediction limit exceedances were noted for the following Appendix III well/constituent pairs:

- Boron: YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S, and YGWC-29IB
- Chloride: YGWC-26I, YGWC-26S, and YGWC-28S

Trend Test Evaluation – Appendix III

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable at the 99% confidence level (Figure E). Upgradient wells are included in the trend analyses for all parameters found to exceed their prediction limit in downgradient wells to identify whether similar patterns exist upgradient of the site. Upgradient trends are an indication of variability in groundwater unrelated to practices at the site. Both a summary and complete graphical results of the trend tests follow this report. Statistically significant trends were identified for the following downgradient and associated upgradient well/constituent pairs:

Increasing:

- Boron: YGWA-18S, YGWA-39 (both upgradient), and YGWC-26S
- Chloride: GWA-2, YGWA-4I, YGWA-17S, YGWA-18I, YGWA-20S, and YGWA-40 (all upgradient)

Decreasing:

- Boron: YGWA-40 (upgradient), YGWC-26I, and YGWC-27S
- Chloride: YGWA-3D, YGWA-3I, YGWA-5D, YGWA-47 (all upgradient), YGWC-26I, YGWC-26S, and YGWC-28S

A complete list of trend test results may be found following this letter in the Trend Test Summary Table.

Statistical Analysis of Appendix IV Parameters – February 2025

For analysis of Appendix IV parameters, confidence intervals for each downgradient well/constituent pair were compared against corresponding Groundwater Protection Standards (GWPS). GWPS were developed as described below. 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 substantially higher than remaining measurements at this well. This step results in statistical limits that are conservative (i.e., lower) from a regulatory perspective. If further studies indicate these measurements represent natural spatial variation in groundwater quality, the values will be re-evaluated for construction of interwell tolerance limits. 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 in downgradient wells. 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.

Interwell Upper Tolerance Limits

Interwell tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through February 2025 for Appendix IV constituents (Figure F). Parametric tolerance limits are calculated, with a target of 95% confidence and 95% coverage, 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 constructed using the highest background measurement. The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples.

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 using data through February 2025 were constructed for each of the Appendix IV constituents in each downgradient well with 8 or more samples (Figure H). As mentioned above, confidence intervals were not required for downgradient well/constituent pairs containing 100% non-detects since 2016.

The Sanitas software was used to calculate the tolerance limits and the confidence intervals, either parametric or nonparametric, depending on the data distribution and percentage of non-detects. When data followed a normal or transformed-normal distribution, parametric confidence intervals were used for Appendix IV parameters. Nonparametric confidence intervals, which use the 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.

Only when the entire confidence interval is above a GWPS is the downgradient well/constituent pair considered to exceed its respective standard. If there is an exceedance of the GWPS, a statistically significant level (SSL) exceedance is identified. Summaries of the confidence interval results, along with graphical comparison against GWPS follow this letter. No exceedances were identified.

Trend Test Evaluation – Appendix IV

Data at wells with confidence interval exceedances are further evaluated using the Sen's Slope/Mann Kendall trend test at the 95% confidence level to determine whether concentrations are statistically increasing, decreasing, or stable. 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. Since no exceedances were identified, no trend tests were required.

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Yates AP-2. 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

Table of Contents

Summary Tables	14
Figure A. Time Series	24
Figure B. Box Plots	204
Figure C. Outlier Summary	226
Figure D. Appendix III Prediction Limits	228
Figure E. Appendix III Trend Tests	311
Figure F. Upper Tolerance Limits	326
Figure G. Groundwater Protection Standards	347
Figure H. Confidence Intervals	349

Summary Tables

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

100% Non-Detects: Appendix IV Downgradient

Analysis Run 5/21/2025 6:46 PM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AP-2

Antimony (mg/L)
YGWC-28S

Beryllium (mg/L)
YGWC-26I, YGWC-28I, YGWC-28S, YGWC-29IB

Cadmium (mg/L)
YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S

Cobalt (mg/L)
YGWC-26I

Lead (mg/L)
YGWC-27I, YGWC-28I

Lithium (mg/L)
YGWC-26S

Molybdenum (mg/L)
YGWC-26I, YGWC-26S, YGWC-27S

Selenium (mg/L)
YGWC-27I, YGWC-27S, YGWC-29IB

Thallium (mg/L)
YGWC-26I, YGWC-27I, YGWC-28I, YGWC-28S

Appendix III Interwell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Yates AP-2 Printed 5/21/2025, 6:32 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-26I**	**0.16**	**n/a**	**2/27/2025**	**0.75**	**Yes**	**443**	**n/a**	**n/a**	**51.92**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-26S**	**0.16**	**n/a**	**2/27/2025**	**0.78**	**Yes**	**443**	**n/a**	**n/a**	**51.92**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-27I**	**0.16**	**n/a**	**2/26/2025**	**2.1**	**Yes**	**443**	**n/a**	**n/a**	**51.92**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-27S**	**0.16**	**n/a**	**2/27/2025**	**0.94**	**Yes**	**443**	**n/a**	**n/a**	**51.92**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-28I**	**0.16**	**n/a**	**2/26/2025**	**1.9**	**Yes**	**443**	**n/a**	**n/a**	**51.92**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-28S**	**0.16**	**n/a**	**2/26/2025**	**2.5**	**Yes**	**443**	**n/a**	**n/a**	**51.92**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-29IB**	**0.16**	**n/a**	**2/26/2025**	**0.92**	**Yes**	**443**	**n/a**	**n/a**	**51.92**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Chloride (mg/L)	**YGWC-26I**	**12.7**	**n/a**	**2/27/2025**	**14.8**	**Yes**	**448**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-26S**	**12.7**	**n/a**	**2/27/2025**	**13.5**	**Yes**	**448**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-28S**	**12.7**	**n/a**	**2/26/2025**	**16.3**	**Yes**	**448**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**

Appendix III Interwell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Yates AP-2 Printed 5/21/2025, 6:32 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-26I**	**0.16**	**n/a**	**2/27/2025**	**0.75**	**Yes**	**443**	**n/a**	**n/a**	**51.92**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-26S**	**0.16**	**n/a**	**2/27/2025**	**0.78**	**Yes**	**443**	**n/a**	**n/a**	**51.92**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-27I**	**0.16**	**n/a**	**2/26/2025**	**2.1**	**Yes**	**443**	**n/a**	**n/a**	**51.92**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-27S**	**0.16**	**n/a**	**2/27/2025**	**0.94**	**Yes**	**443**	**n/a**	**n/a**	**51.92**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-28I**	**0.16**	**n/a**	**2/26/2025**	**1.9**	**Yes**	**443**	**n/a**	**n/a**	**51.92**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-28S**	**0.16**	**n/a**	**2/26/2025**	**2.5**	**Yes**	**443**	**n/a**	**n/a**	**51.92**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-29IB**	**0.16**	**n/a**	**2/26/2025**	**0.92**	**Yes**	**443**	**n/a**	**n/a**	**51.92**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Calcium (mg/L)	YGWC-26I	37	n/a	2/27/2025	15.7	No	449	n/a	n/a	0.6682	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-26S	37	n/a	2/27/2025	10.2	No	449	n/a	n/a	0.6682	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-27I	37	n/a	2/26/2025	25.9	No	449	n/a	n/a	0.6682	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-27S	37	n/a	2/27/2025	20.7	No	449	n/a	n/a	0.6682	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-28I	37	n/a	2/26/2025	29.7	No	449	n/a	n/a	0.6682	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-28S	37	n/a	2/26/2025	28.4	No	449	n/a	n/a	0.6682	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-29IB	37	n/a	2/26/2025	11.1	No	449	n/a	n/a	0.6682	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	**YGWC-26I**	**12.7**	**n/a**	**2/27/2025**	**14.8**	**Yes**	**448**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-26S**	**12.7**	**n/a**	**2/27/2025**	**13.5**	**Yes**	**448**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	YGWC-27I	12.7	n/a	2/26/2025	11.6	No	448	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-27S	12.7	n/a	2/27/2025	11.8	No	448	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-28I	12.7	n/a	2/26/2025	10.1	No	448	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	**YGWC-28S**	**12.7**	**n/a**	**2/26/2025**	**16.3**	**Yes**	**448**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	YGWC-29IB	12.7	n/a	2/26/2025	9.7	No	448	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Fluoride (mg/L)	YGWC-26I	1.1	n/a	2/27/2025	0.087J	No	518	n/a	n/a	54.25	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-26S	1.1	n/a	2/27/2025	0.069J	No	518	n/a	n/a	54.25	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-27I	1.1	n/a	2/26/2025	0.059J	No	518	n/a	n/a	54.25	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-27S	1.1	n/a	2/27/2025	0.12	No	518	n/a	n/a	54.25	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-28I	1.1	n/a	2/26/2025	0.067J	No	518	n/a	n/a	54.25	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-28S	1.1	n/a	2/26/2025	0.13	No	518	n/a	n/a	54.25	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-29IB	1.1	n/a	2/26/2025	0.059J	No	518	n/a	n/a	54.25	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
pH, Field (SU)	YGWC-26I	8.39	4.4	2/27/2025	5.85	No	527	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH, Field (SU)	YGWC-26S	8.39	4.4	2/27/2025	5.54	No	527	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH, Field (SU)	YGWC-27I	8.39	4.4	2/26/2025	6.63	No	527	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH, Field (SU)	YGWC-27S	8.39	4.4	2/27/2025	6.23	No	527	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH, Field (SU)	YGWC-28I	8.39	4.4	2/26/2025	6.67	No	527	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH, Field (SU)	YGWC-28S	8.39	4.4	2/26/2025	6.45	No	527	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH, Field (SU)	YGWC-29IB	8.39	4.4	2/26/2025	5.94	No	527	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-26I	160	n/a	2/27/2025	77.5	No	449	n/a	n/a	4.454	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-26S	160	n/a	2/27/2025	83.3	No	449	n/a	n/a	4.454	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-27I	160	n/a	2/26/2025	4	No	449	n/a	n/a	4.454	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-27S	160	n/a	2/27/2025	12.4	No	449	n/a	n/a	4.454	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-28I	160	n/a	2/26/2025	8.8	No	449	n/a	n/a	4.454	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-28S	160	n/a	2/26/2025	2	No	449	n/a	n/a	4.454	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-29IB	160	n/a	2/26/2025	40.9	No	449	n/a	n/a	4.454	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
TDS (mg/L)	YGWC-26I	319	n/a	2/27/2025	213	No	442	n/a	n/a	0.4525	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
TDS (mg/L)	YGWC-26S	319	n/a	2/27/2025	181	No	442	n/a	n/a	0.4525	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
TDS (mg/L)	YGWC-27I	319	n/a	2/26/2025	186	No	442	n/a	n/a	0.4525	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
TDS (mg/L)	YGWC-27S	319	n/a	2/27/2025	133	No	442	n/a	n/a	0.4525	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
TDS (mg/L)	YGWC-28I	319	n/a	2/26/2025	202	No	442	n/a	n/a	0.4525	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
TDS (mg/L)	YGWC-28S	319	n/a	2/26/2025	217	No	442	n/a	n/a	0.4525	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
TDS (mg/L)	YGWC-29IB	319	n/a	2/26/2025	148	No	442	n/a	n/a	0.4525	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2

Appendix III Trend Tests - Significant Results

Plant Yates Client: Southern Company Data: Yates AP-2 Printed 5/21/2025, 6:37 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-26I**	**-0.03661**	**-157**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWC-26S**	**0.01515**	**128**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWC-27S**	**-0.06024**	**-150**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GWA-2 (bg)**	**0.2946**	**117**	**81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-3D (bg)**	**-0.03782**	**-151**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-3I (bg)**	**-0.02614**	**-128**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-4I (bg)**	**0.08081**	**108**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-5D (bg)**	**-0.5175**	**-230**	**-111**	**Yes**	**25**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-17S (bg)**	**0.8777**	**241**	**111**	**Yes**	**25**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-18I (bg)**	**0.08815**	**127**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-20S (bg)**	**0.07794**	**157**	**111**	**Yes**	**25**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-40 (bg)**	**0.2046**	**94**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-47 (bg)**	**-0.3114**	**-152**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWC-26I**	**-0.3796**	**-158**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWC-26S**	**-0.3035**	**-121**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWC-28S**	**-0.2903**	**-120**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**

Appendix III Trend Tests - All Results

Plant Yates Client: Southern Company Data: Yates AP-2 Printed 5/21/2025, 6:37 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-26I**	**-0.03661**	**-157**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWC-26S**	**0.01515**	**128**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWC-27I	0.01975	40	105	No	24	0	n/a	0.01	NP
Boron (mg/L)	**YGWC-27S**	**-0.06024**	**-150**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWC-28I	-0.08208	-100	-105	No	24	0	n/a	0.01	NP
Boron (mg/L)	YGWC-28S	-0.02856	-53	-105	No	24	0	n/a	0.01	NP
Boron (mg/L)	YGWC-29IB	-0.006612	-42	-105	No	24	0	n/a	0.01	NP
Chloride (mg/L)	**GWA-2 (bg)**	**0.2946**	**117**	**81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-1D (bg)	-0.01295	-75	-105	No	24	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-1I (bg)	-0.01972	-77	-105	No	24	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-2I (bg)	-0.02326	-90	-105	No	24	0	n/a	0.01	NP
Chloride (mg/L)	**YGWA-3D (bg)**	**-0.03782**	**-151**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-3I (bg)**	**-0.02614**	**-128**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-4I (bg)**	**0.08081**	**108**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-5D (bg)**	**-0.5175**	**-230**	**-111**	**Yes**	**25**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-5I (bg)	0.02095	38	111	No	25	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-14S (bg)	0.06174	56	105	No	24	0	n/a	0.01	NP
Chloride (mg/L)	**YGWA-17S (bg)**	**0.8777**	**241**	**111**	**Yes**	**25**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-18I (bg)**	**0.08815**	**127**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-18S (bg)	0.06848	73	105	No	24	0	n/a	0.01	NP
Chloride (mg/L)	**YGWA-20S (bg)**	**0.07794**	**157**	**111**	**Yes**	**25**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-21I (bg)	-0.06042	-73	-111	No	25	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-30I (bg)	-0.03904	-105	-105	No	24	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-39 (bg)	0.4364	84	87	No	21	0	n/a	0.01	NP
Chloride (mg/L)	**YGWA-40 (bg)**	**0.2046**	**94**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-47 (bg)**	**-0.3114**	**-152**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWC-26I**	**-0.3796**	**-158**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWC-26S**	**-0.3035**	**-121**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWC-28S**	**-0.2903**	**-120**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**

Upper Tolerance Limits Summary Table

Plant Yates Client: Southern Company Data: Yates AP-2 Printed 5/21/2025, 6:41 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 ASH POND 2 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*

Appendix IV Confidence Intervals - All Results (No Significant)

Plant Yates Client: Southern Company Data: Yates AP-2 Printed 5/21/2025, 6:49 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	YGWC-26I	0.003	0.001	0.006	No	23	0.0027	0.0007947	86.96	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-26S	0.003	0.0017	0.006	No	23	0.002883	0.0003892	91.3	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27I	0.003	0.0014	0.006	No	23	0.002814	0.0006359	91.3	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27S	0.003	0.0003	0.006	No	23	0.002883	0.000563	95.65	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-28I	0.003	0.0023	0.006	No	23	0.00297	0.000146	95.65	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-29IB	0.003	0.0013	0.006	No	23	0.002926	0.0003545	95.65	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-26I	0.005	0.0028	0.01	No	27	0.004822	0.0006429	92.59	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-26S	0.005	0.0032	0.01	No	27	0.00483	0.0006293	92.59	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-27I	0.005	0.0009	0.01	No	27	0.003539	0.00204	62.96	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-27S	0.005	0.0019	0.01	No	27	0.004719	0.001033	92.59	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-28I	0.005	0.0021	0.01	No	27	0.004893	0.0005581	96.3	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-28S	0.005	0.00075	0.01	No	27	0.003693	0.001993	66.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-29IB	0.005	0.0033	0.01	No	27	0.004937	0.0003272	96.3	None	No	0.01	NP (NDs)
Barium (mg/L)	YGWC-26I	0.06482	0.06119	2	No	27	0.063	0.003812	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-26S	0.02813	0.02608	2	No	27	0.02711	0.002148	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-27I	0.073	0.06585	2	No	27	0.06957	0.007597	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	YGWC-27S	0.09809	0.07879	2	No	27	0.08616	0.02259	0	None	x^2	0.01	Param.
Barium (mg/L)	YGWC-28I	0.08667	0.07726	2	No	27	0.08197	0.009866	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-28S	0.2188	0.2002	2	No	27	0.2048	0.03316	0	None	x^4	0.01	Param.
Barium (mg/L)	YGWC-29IB	0.0782	0.059	2	No	27	0.07462	0.0297	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-26S	0.0002	0.0001	0.004	No	25	0.0002241	0.0001638	24	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-27I	0.00023	0.00012	0.004	No	25	0.0002268	0.0001469	20	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-27S	0.0005	0.00011	0.004	No	25	0.000467	0.0001143	92	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-28I	0.00043	0.00013	0.005	No	25	0.0002672	0.0001741	20	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-28S	0.0005	0.00048	0.005	No	25	0.0004992	0.000004	96	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-29IB	0.00027	0.00016	0.005	No	25	0.0003232	0.0003546	12	None	No	0.01	NP (normality)
Chromium (mg/L)	YGWC-26I	0.005	0.0008	0.1	No	25	0.003598	0.00208	64	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-26S	0.005	0.0012	0.1	No	25	0.00306	0.001792	36	None	No	0.01	NP (normality)
Chromium (mg/L)	YGWC-27I	0.012	0.005	0.1	No	25	0.00528	0.0014	96	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-27S	0.005	0.0041	0.1	No	25	0.004738	0.002612	76	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28I	0.005	0.0005	0.1	No	25	0.004456	0.001502	88	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28S	0.005	0.0034	0.1	No	25	0.0044	0.001493	84	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-29IB	0.005	0.0005	0.1	No	25	0.00482	0.0009	96	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-26S	0.002389	0.001768	0.035	No	27	0.002079	0.0006511	7.407	None	No	0.01	Param.
Cobalt (mg/L)	YGWC-27I	0.01373	0.004382	0.035	No	27	0.01598	0.0229	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	YGWC-27S	0.0025	0.0017	0.035	No	27	0.002241	0.0006891	3.704	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-28I	0.005	0.00042	0.035	No	27	0.00483	0.0008814	96.3	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-28S	0.0011	0.00085	0.035	No	27	0.001121	0.0005183	11.11	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-29IB	0.0053	0.0027	0.035	No	27	0.00428	0.001913	62.96	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	YGWC-26I	0.9861	0.4961	6.92	No	26	0.7411	0.5027	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-26S	0.8017	0.5338	6.92	No	27	0.6677	0.2808	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27I	3.685	2.653	6.92	No	27	3.169	1.082	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27S	0.9318	0.5922	6.92	No	27	0.762	0.356	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-28I	0.7689	0.4642	6.92	No	27	0.6166	0.3194	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-28S	0.9196	0.5691	6.92	No	27	0.7443	0.3674	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-29IB	1.084	0.7004	6.92	No	27	0.8921	0.4019	0	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-26I	0.08293	0.06131	4	No	28	0.08196	0.02163	25	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	YGWC-26S	0.11	0.076	4	No	28	0.1164	0.08829	53.57	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-27I	0.14	0.07	4	No	28	0.1362	0.0998	25	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-27S	0.1775	0.1014	4	No	28	0.1485	0.09475	7.143	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	YGWC-28I	0.15	0.078	4	No	28	0.1236	0.07268	10.71	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-28S	0.2315	0.1589	4	No	28	0.201	0.08584	3.571	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	YGWC-29IB	0.091	0.059	4	No	28	0.08671	0.03562	10.71	None	No	0.01	NP (normality)
Lead (mg/L)	YGWC-26I	0.001	0.000059	0.015	No	23	0.0009178	0.0002723	91.3	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-26S	0.001	0.0001	0.015	No	23	0.0007587	0.0004154	73.91	None	No	0.01	NP (NDs)

Appendix IV Confidence Intervals - All Results (No Significant)

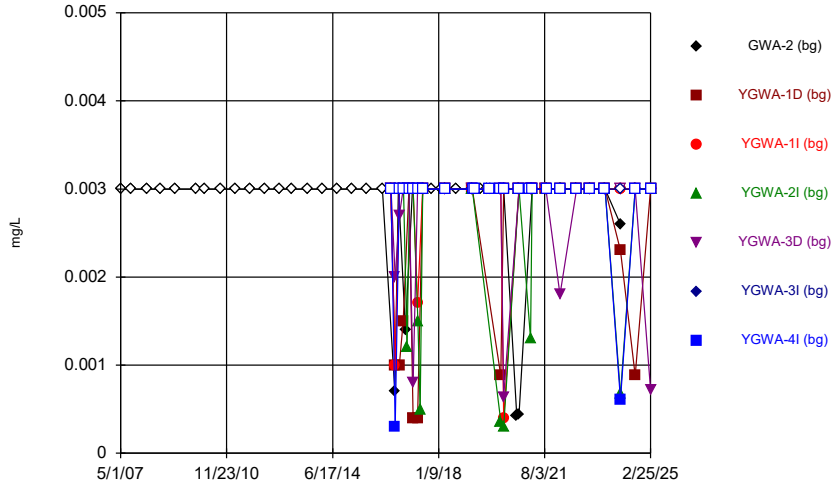
Plant Yates Client: Southern Company Data: Yates AP-2 Printed 5/21/2025, 6:49 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	YGWC-27S	0.001	0.00096	0.015	No	23	0.000852	0.0003283	69.57	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-28S	0.001	0.00009	0.015	No	23	0.0007567	0.0004188	73.91	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-29IB	0.001	0.00016	0.015	No	23	0.0008835	0.0003078	86.96	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-26I	0.007402	0.006798	0.04	No	27	0.0071	0.0006325	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-27I	0.009326	0.007566	0.04	No	27	0.008547	0.001962	0	None	x^(1/3)	0.01	Param.
Lithium (mg/L)	YGWC-27S	0.03	0.0013	0.04	No	27	0.02786	0.007725	92.59	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-28I	0.006972	0.006508	0.04	No	27	0.00674	0.0004862	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-28S	0.03	0.0053	0.04	No	27	0.02909	0.004754	96.3	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-29IB	0.0066	0.0052	0.04	No	27	0.006621	0.002591	3.704	None	No	0.01	NP (normality)
Mercury (mg/L)	YGWC-26I	0.0002	0.000051	0.002	No	21	0.0001858	0.00004482	90.48	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-26S	0.0002	0.000066	0.002	No	21	0.0001864	0.00004295	90.48	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-27I	0.0002	0.00006	0.002	No	21	0.000179	0.00005276	85.71	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-27S	0.0002	0.00019	0.002	No	21	0.00018	0.00004989	80.95	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-28I	0.0002	0.000078	0.002	No	21	0.000187	0.00004148	90.48	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-28S	0.0002	0.000081	0.002	No	21	0.0001873	0.00004042	90.48	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-29IB	0.0002	0.000081	0.002	No	21	0.0001794	0.00005223	85.71	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-27I	0.01	0.0015	0.1	No	27	0.005078	0.004194	40.74	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-28I	0.01	0.0012	0.1	No	27	0.004507	0.004295	37.04	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-28S	0.01	0.00082	0.1	No	27	0.006911	0.004451	66.67	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-29IB	0.01	0.00099	0.1	No	27	0.009327	0.002426	92.59	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-26I	0.0042	0.0019	0.05	No	25	0.002992	0.001222	8	None	No	0.01	NP (normality)
Selenium (mg/L)	YGWC-26S	0.005	0.0014	0.05	No	25	0.004372	0.00148	84	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28I	0.005	0.0012	0.05	No	25	0.004848	0.00076	96	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28S	0.005	0.001	0.05	No	25	0.00484	0.0008	96	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-26S	0.002	0.000057	0.002	No	21	0.001815	0.0005847	90.48	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-27S	0.002	0.00011	0.002	No	21	0.001459	0.0008772	71.43	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-29IB	0.002	0.00021	0.002	No	21	0.001915	0.0003906	95.24	None	No	0.01	NP (NDs)

FIGURE A.

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

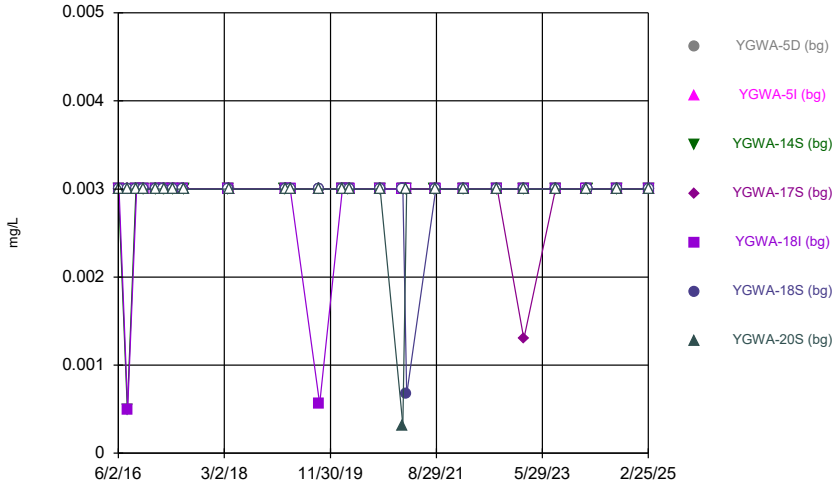
Time Series



Constituent: Antimony Analysis Run 5/21/2025 2:46 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

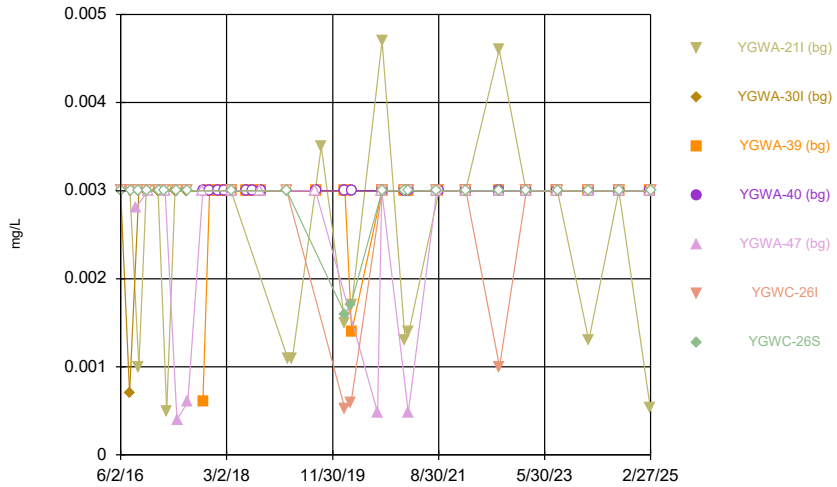
Time Series



Constituent: Antimony Analysis Run 5/21/2025 2:46 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

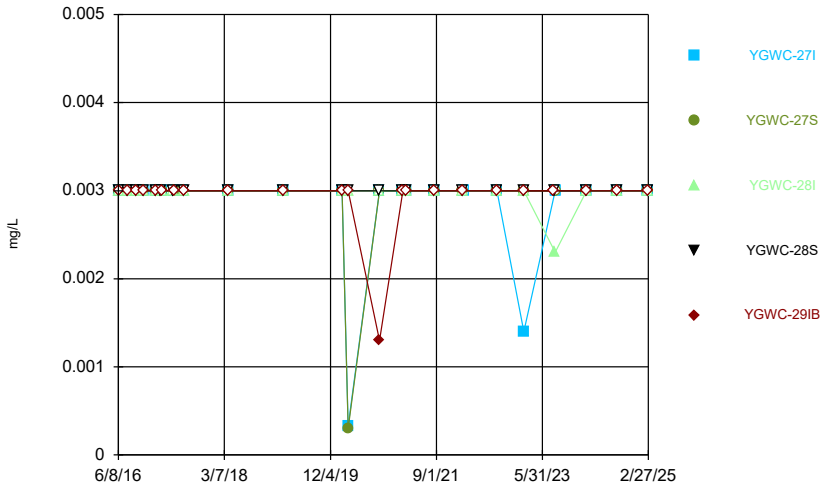
Time Series



Constituent: Antimony Analysis Run 5/21/2025 2:46 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

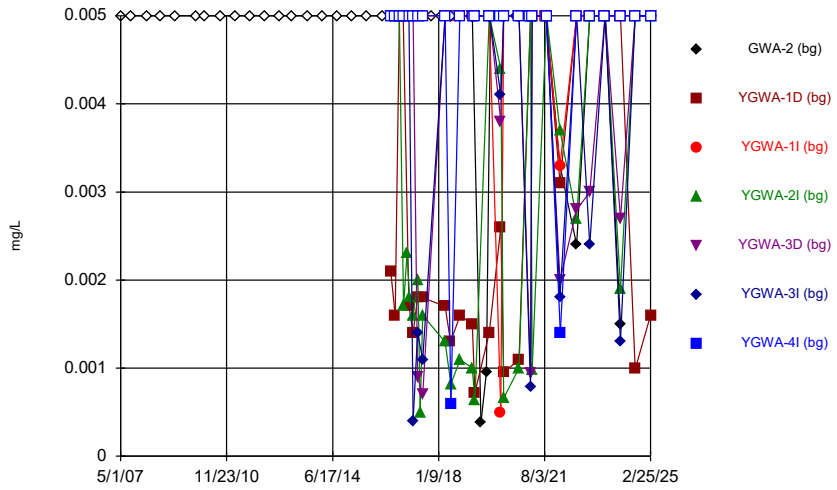
Time Series



Constituent: Antimony Analysis Run 5/21/2025 2:46 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

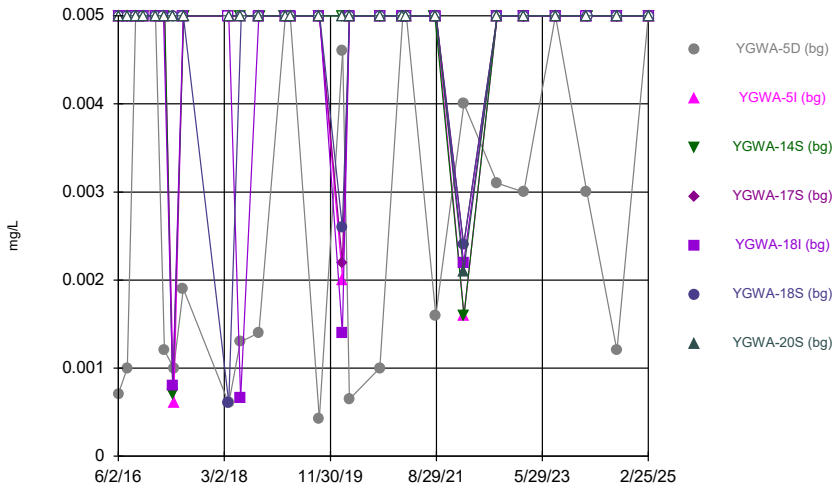
Time Series



Constituent: Arsenic Analysis Run 5/21/2025 2:46 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

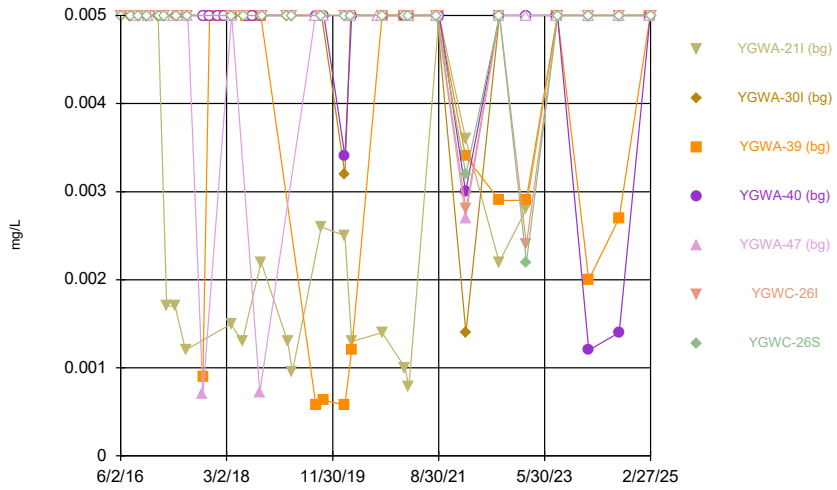
Time Series



Constituent: Arsenic Analysis Run 5/21/2025 2:46 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

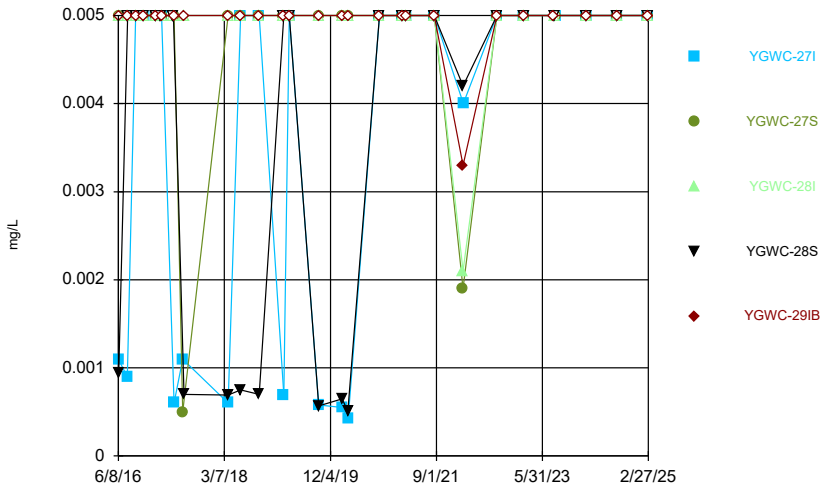
Time Series



Constituent: Arsenic Analysis Run 5/21/2025 2:46 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

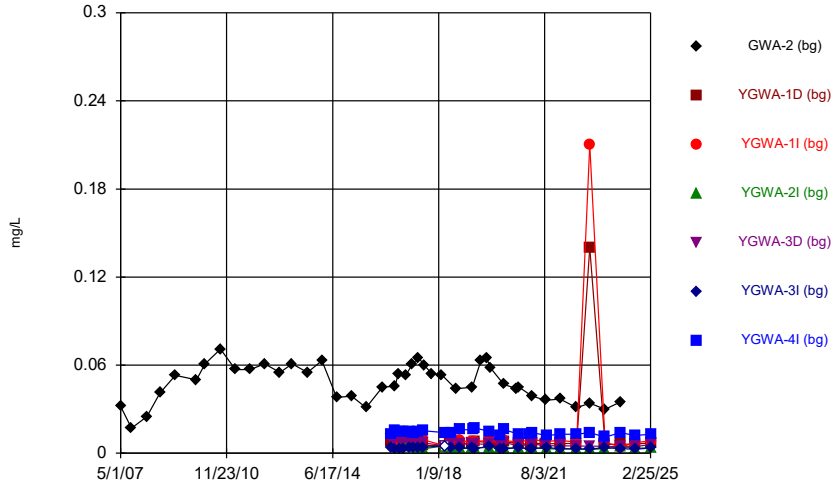
Time Series



Constituent: Arsenic Analysis Run 5/21/2025 2:46 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

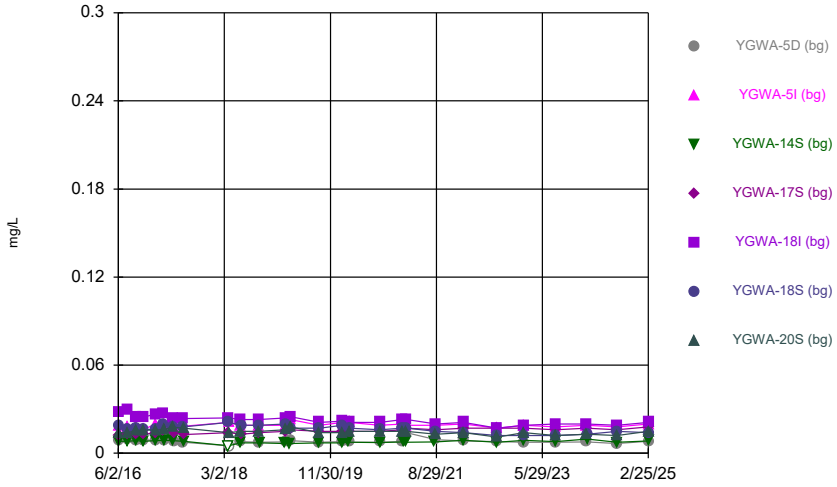
Time Series



Constituent: Barium Analysis Run 5/21/2025 2:46 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

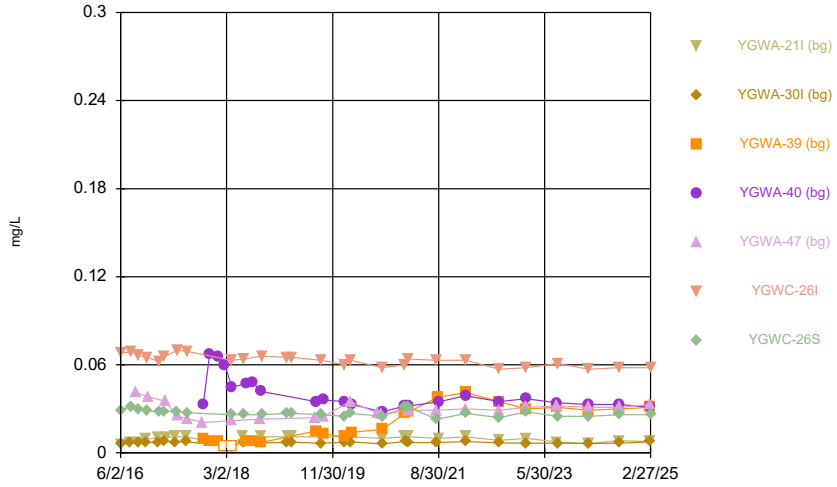
Time Series



Constituent: Barium Analysis Run 5/21/2025 2:46 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

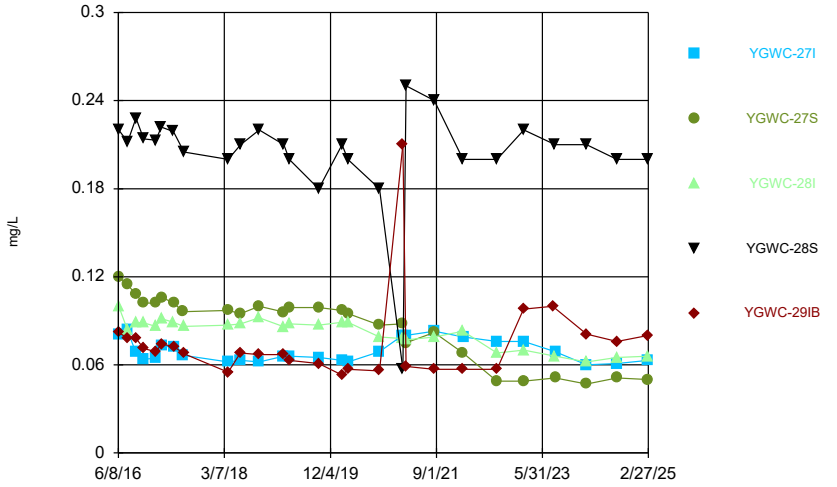
Time Series



Constituent: Barium Analysis Run 5/21/2025 2:46 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

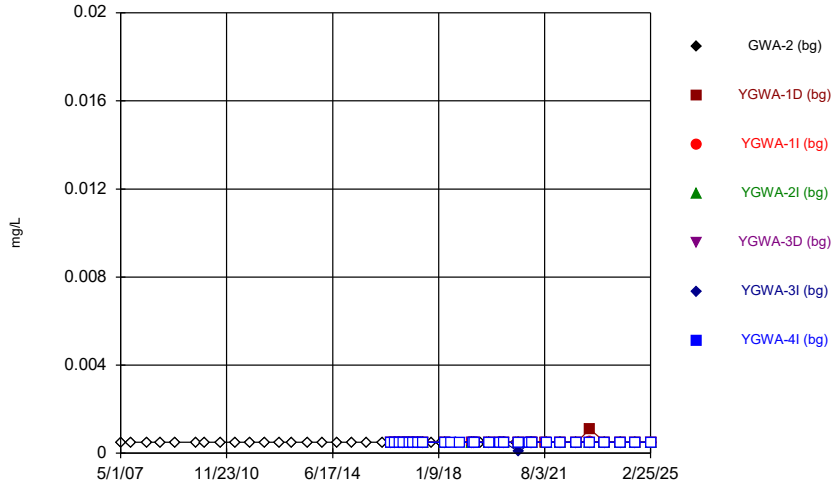
Time Series



Constituent: Barium Analysis Run 5/21/2025 2:46 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

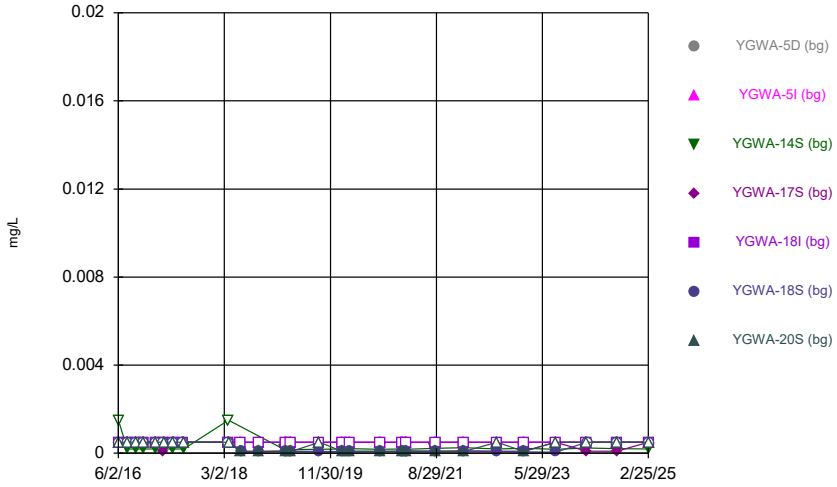
Time Series



Constituent: Beryllium Analysis Run 5/21/2025 2:46 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

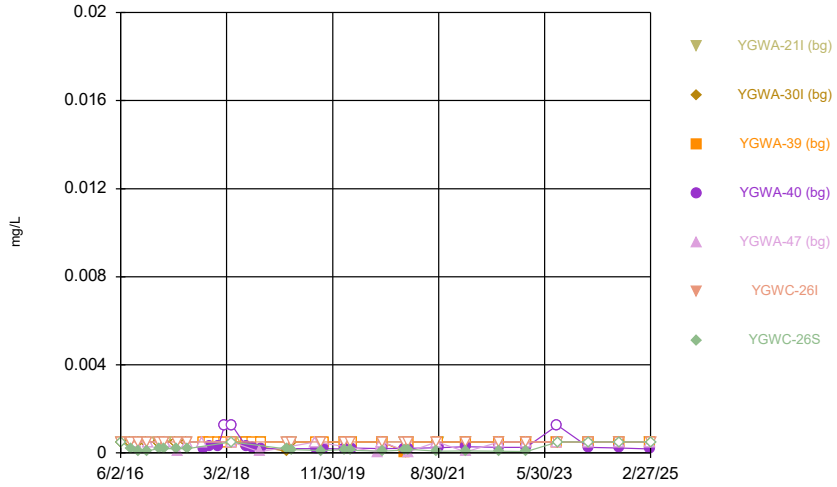
Time Series



Constituent: Beryllium Analysis Run 5/21/2025 2:46 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

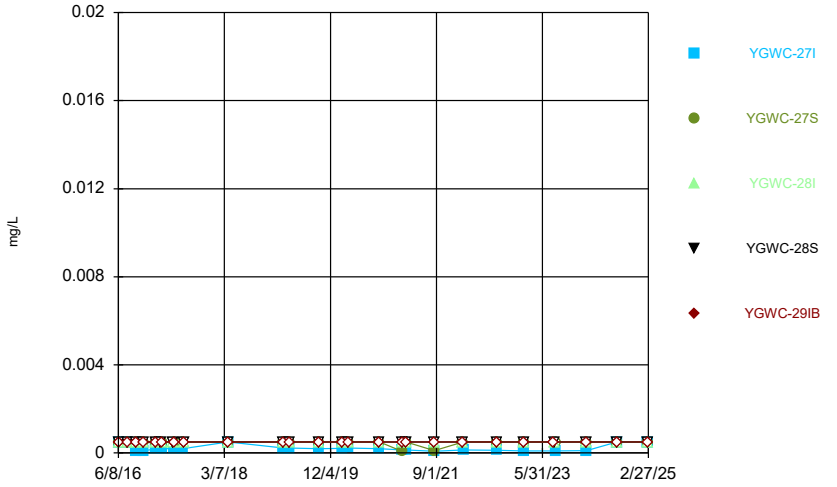
Time Series



Constituent: Beryllium Analysis Run 5/21/2025 2:46 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

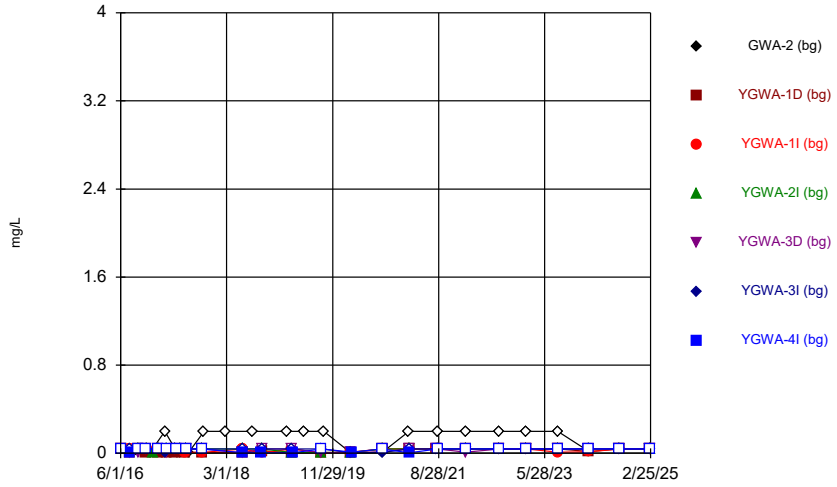
Time Series



Constituent: Beryllium Analysis Run 5/21/2025 2:46 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

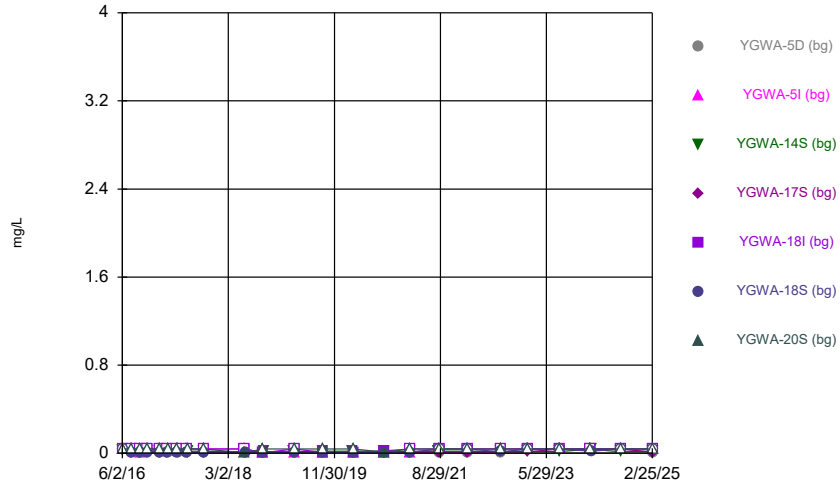
Time Series



Constituent: Boron Analysis Run 5/21/2025 2:46 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

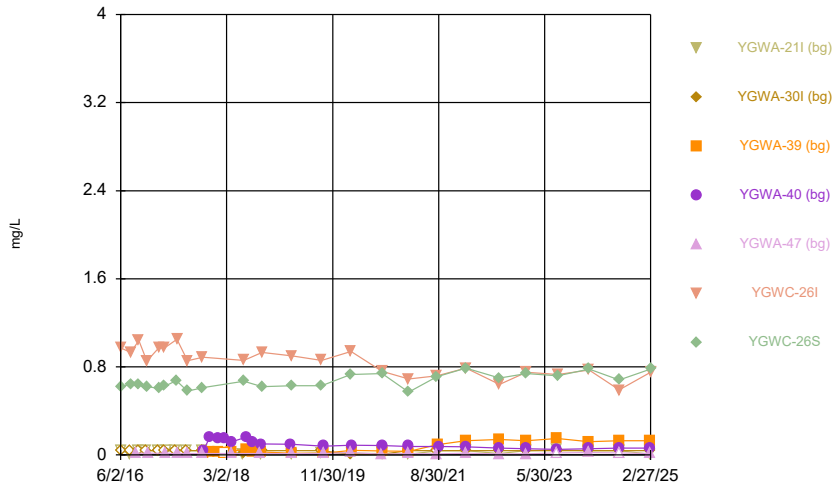
Time Series



Constituent: Boron Analysis Run 5/21/2025 2:46 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

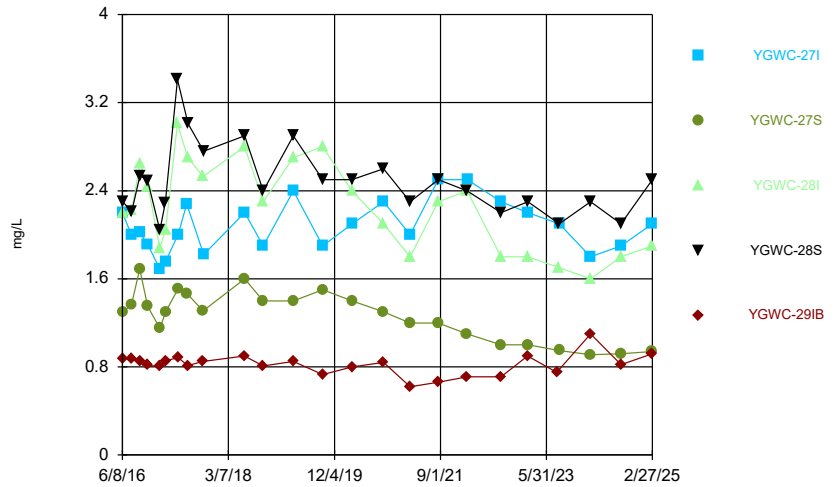
Time Series



Constituent: Boron Analysis Run 5/21/2025 2:46 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

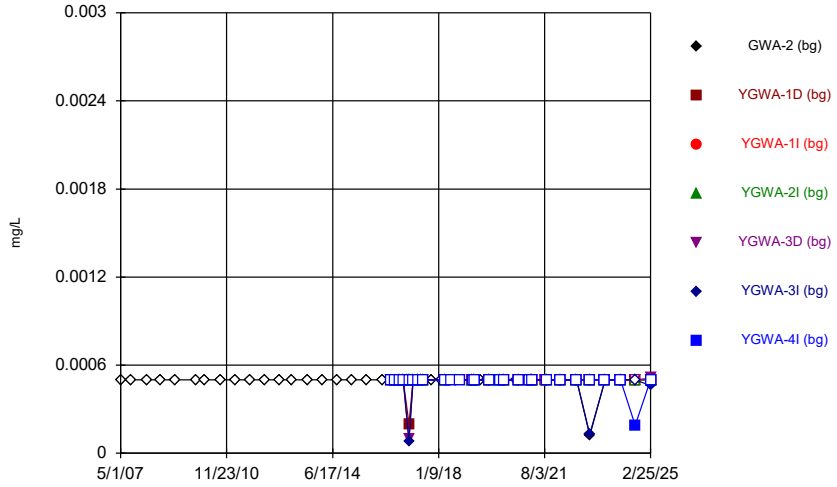
Time Series



Constituent: Boron Analysis Run 5/21/2025 2:46 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

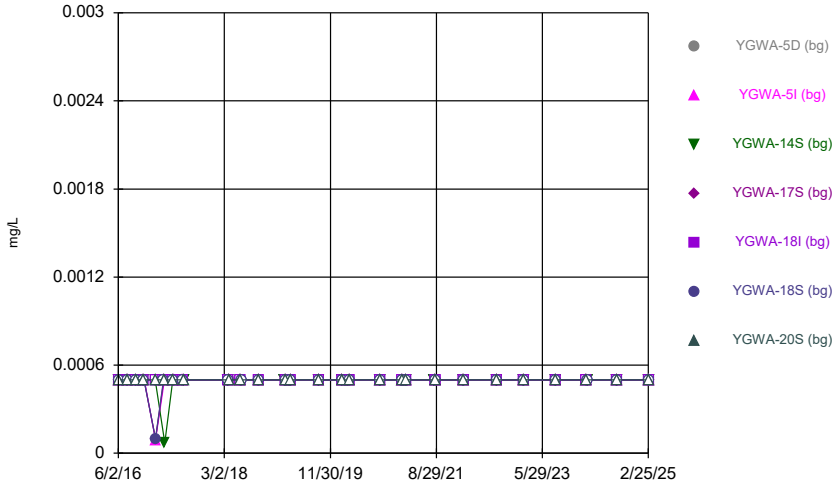
Time Series



Constituent: Cadmium Analysis Run 5/21/2025 2:46 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

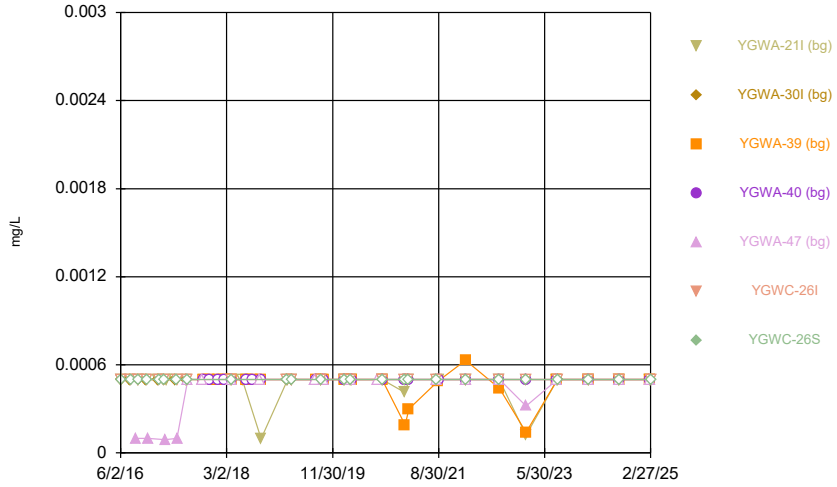
Time Series



Constituent: Cadmium Analysis Run 5/21/2025 2:46 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

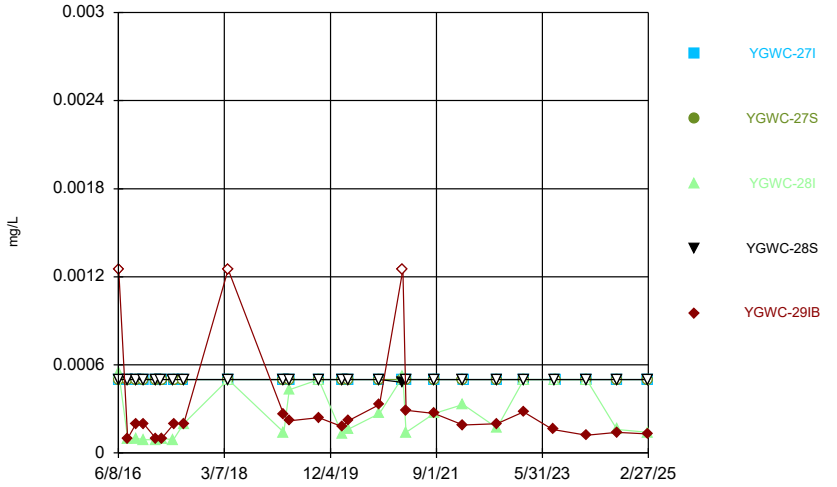
Time Series



Constituent: Cadmium Analysis Run 5/21/2025 2:46 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

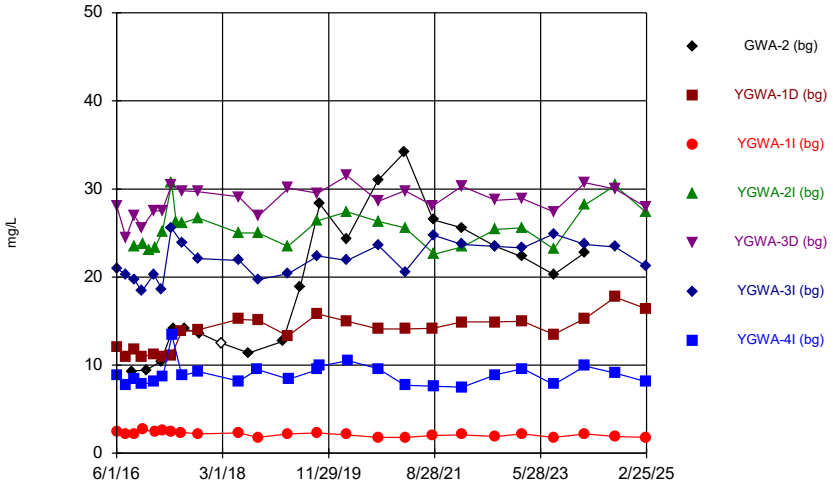
Time Series



Constituent: Cadmium Analysis Run 5/21/2025 2:46 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

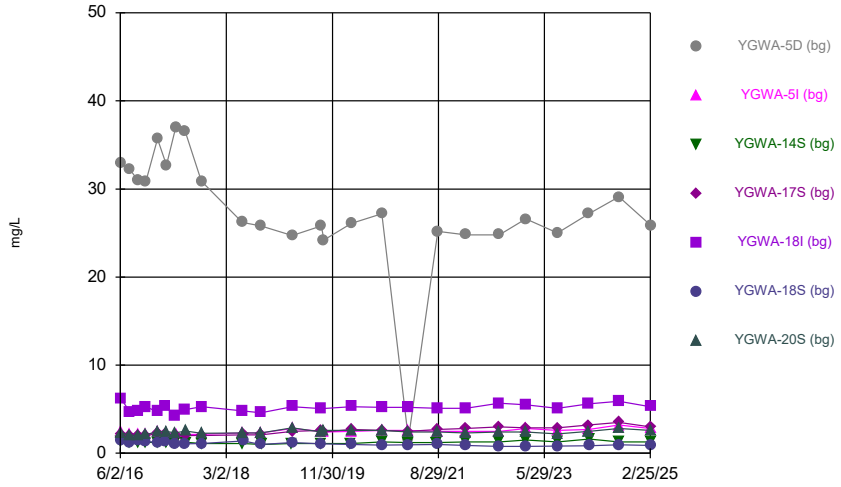
Time Series



Constituent: Calcium Analysis Run 5/21/2025 2:46 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

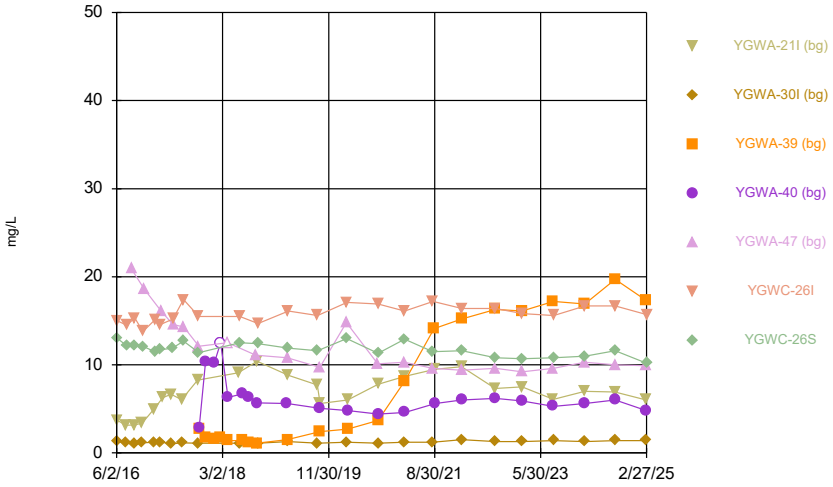
Time Series



Constituent: Calcium Analysis Run 5/21/2025 2:46 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

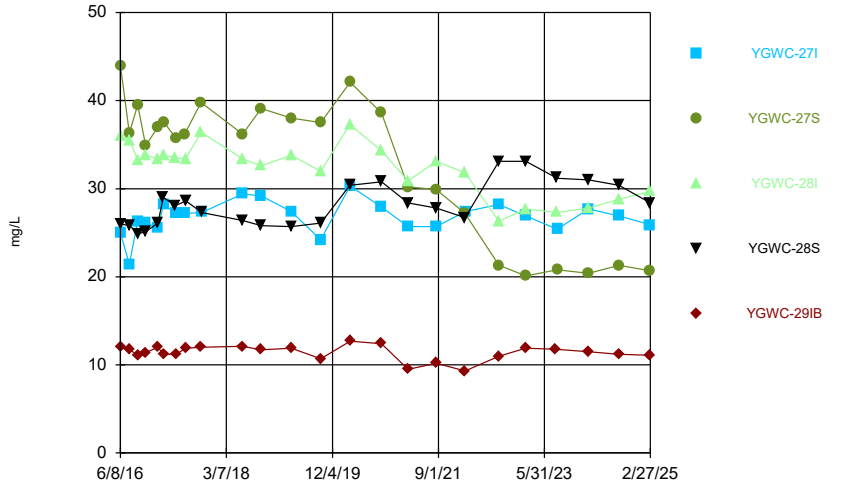
Time Series



Constituent: Calcium Analysis Run 5/21/2025 2:46 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

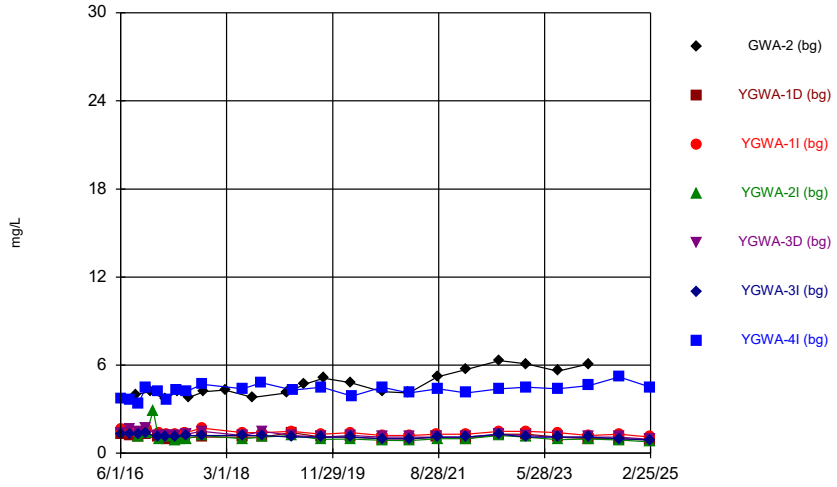
Time Series



Constituent: Calcium Analysis Run 5/21/2025 2:46 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

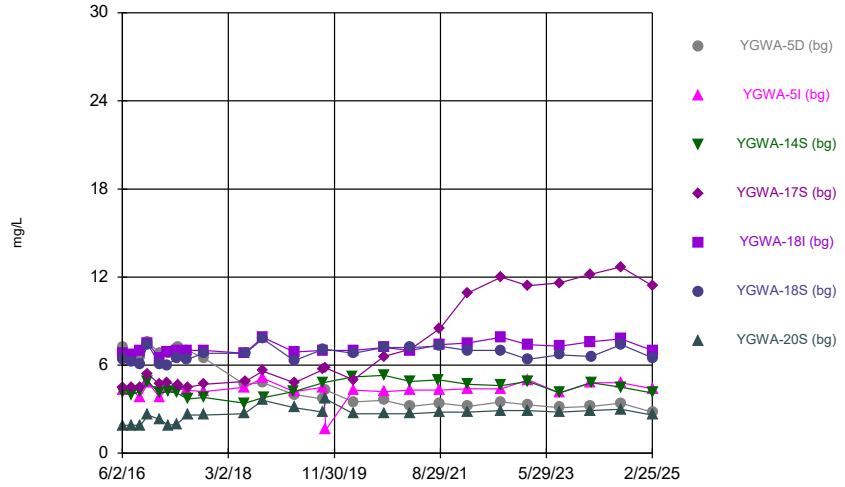
Time Series



Constituent: Chloride Analysis Run 5/21/2025 2:46 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

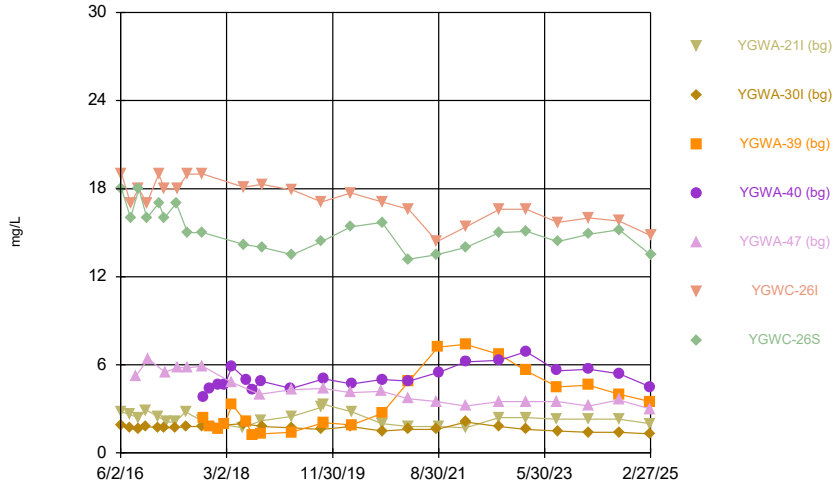
Time Series



Constituent: Chloride Analysis Run 5/21/2025 2:46 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

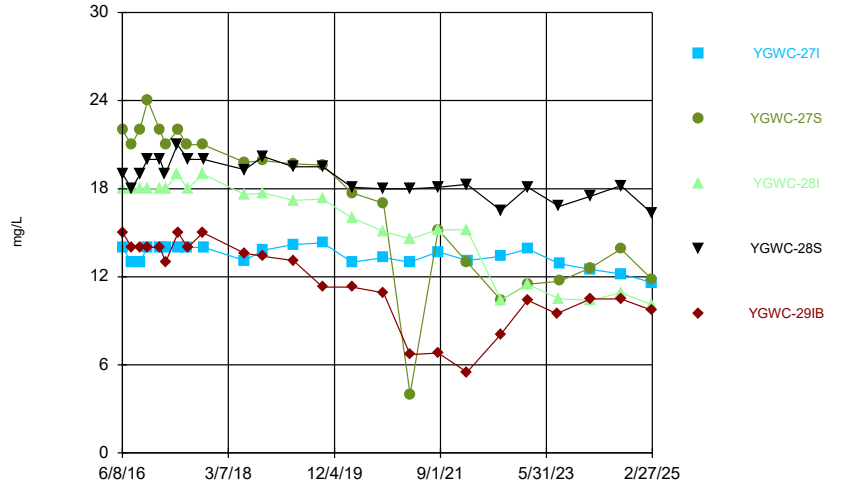
Time Series



Constituent: Chloride Analysis Run 5/21/2025 2:47 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

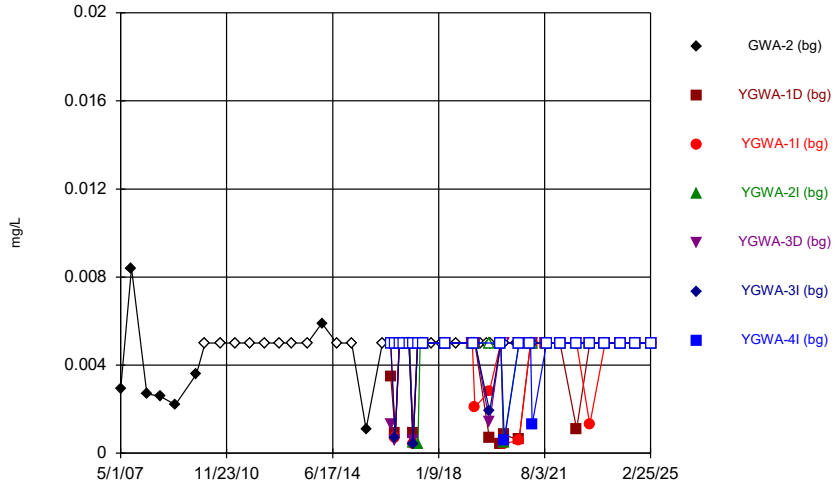
Time Series



Constituent: Chloride Analysis Run 5/21/2025 2:47 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

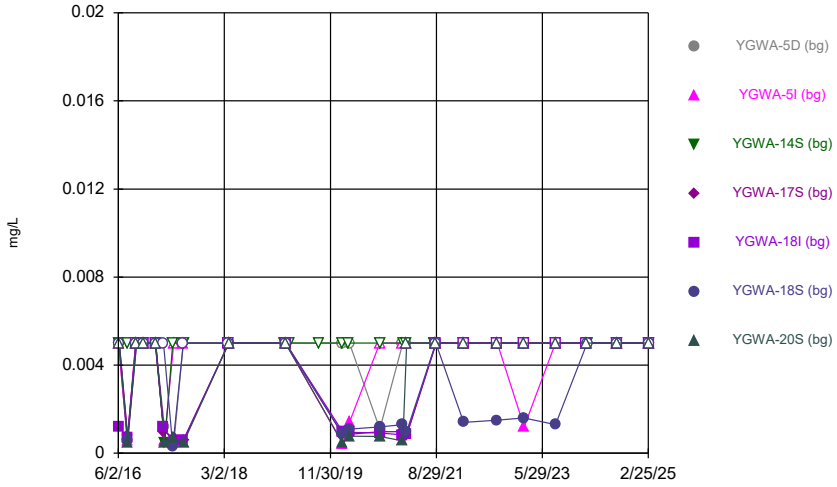
Time Series



Constituent: Chromium Analysis Run 5/21/2025 2:47 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

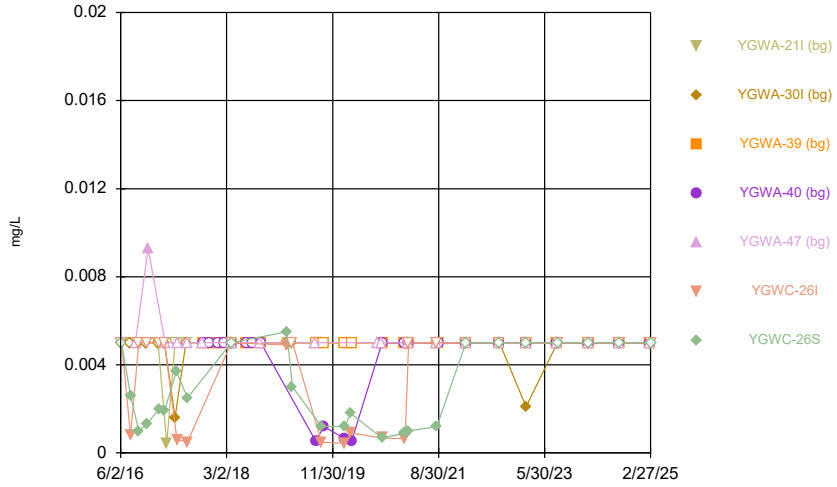
Time Series



Constituent: Chromium Analysis Run 5/21/2025 2:47 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

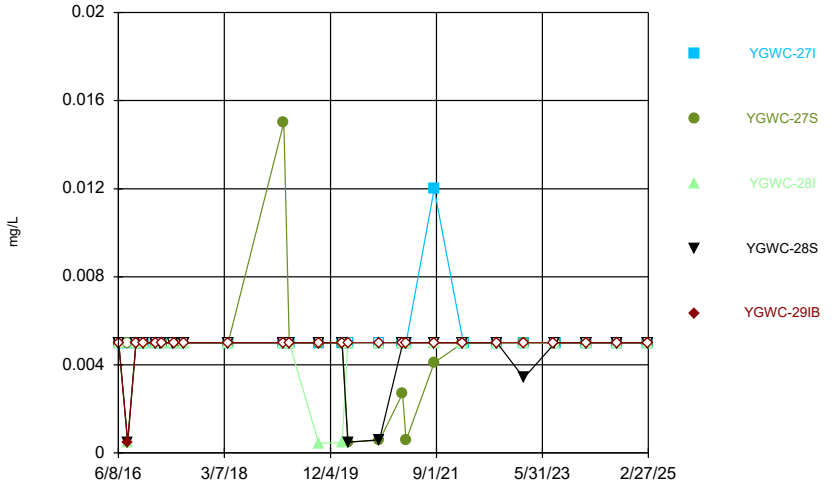
Time Series



Constituent: Chromium Analysis Run 5/21/2025 2:47 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

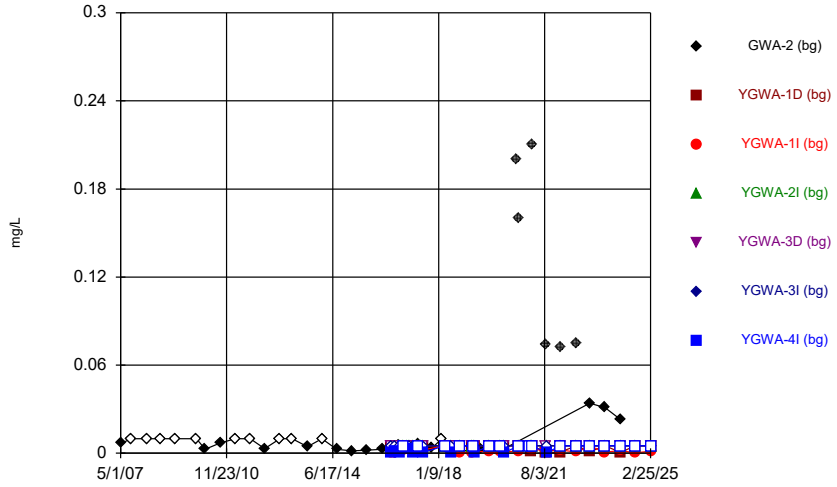
Time Series



Constituent: Chromium Analysis Run 5/21/2025 2:47 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

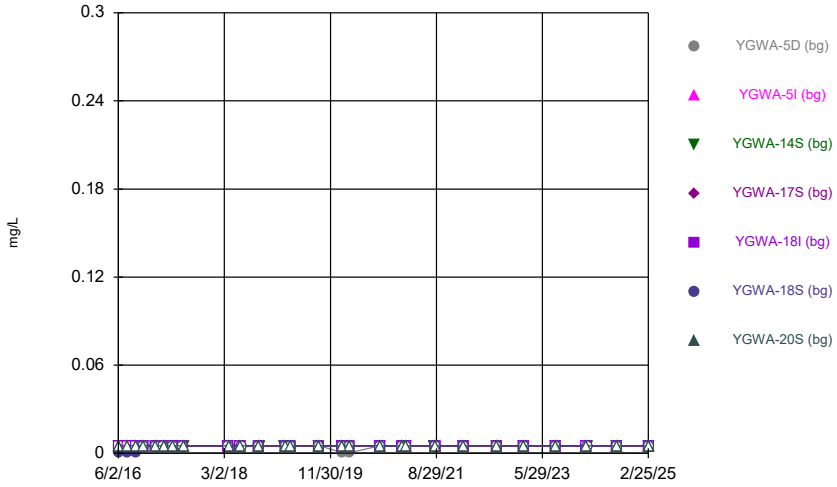
Time Series



Constituent: Cobalt Analysis Run 5/21/2025 2:47 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

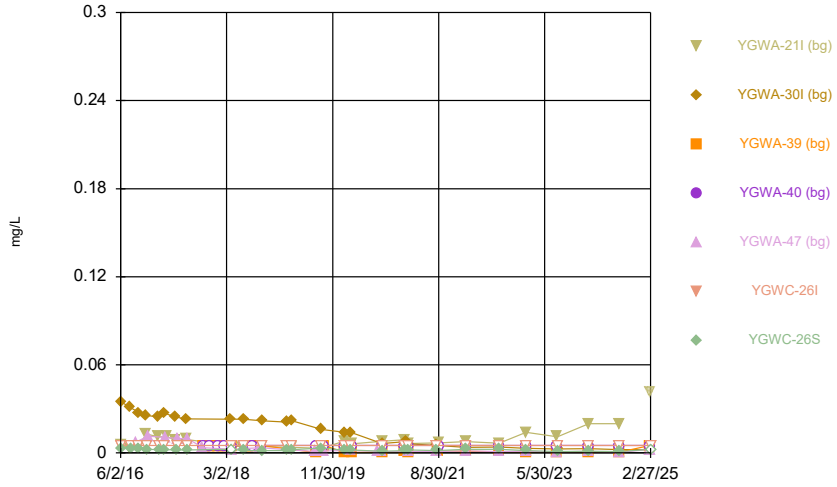
Time Series



Constituent: Cobalt Analysis Run 5/21/2025 2:47 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

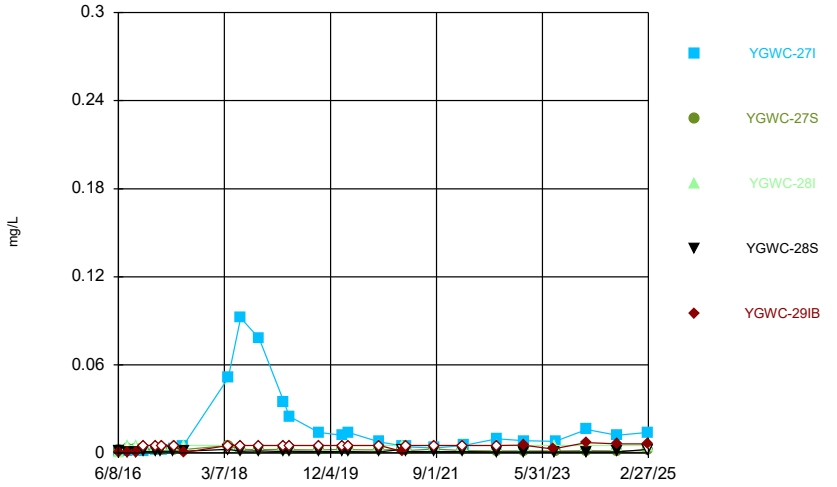
Time Series



Constituent: Cobalt Analysis Run 5/21/2025 2:47 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

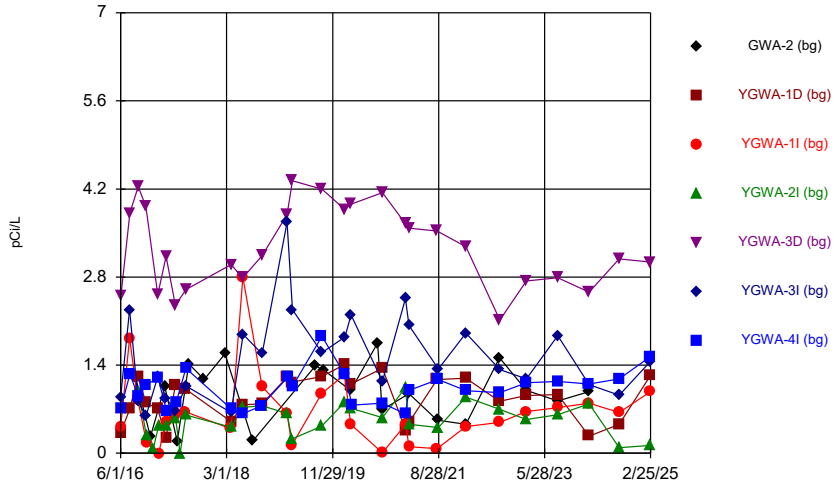
Time Series



Constituent: Cobalt Analysis Run 5/21/2025 2:47 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

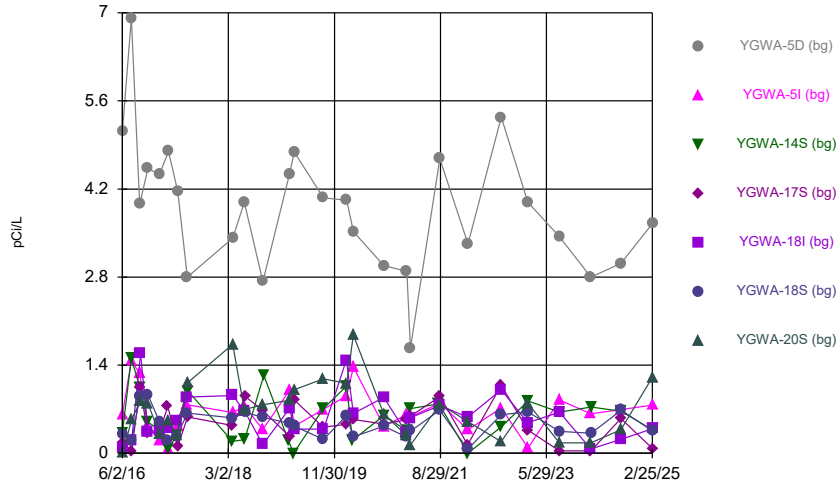
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 5/21/2025 2:47 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

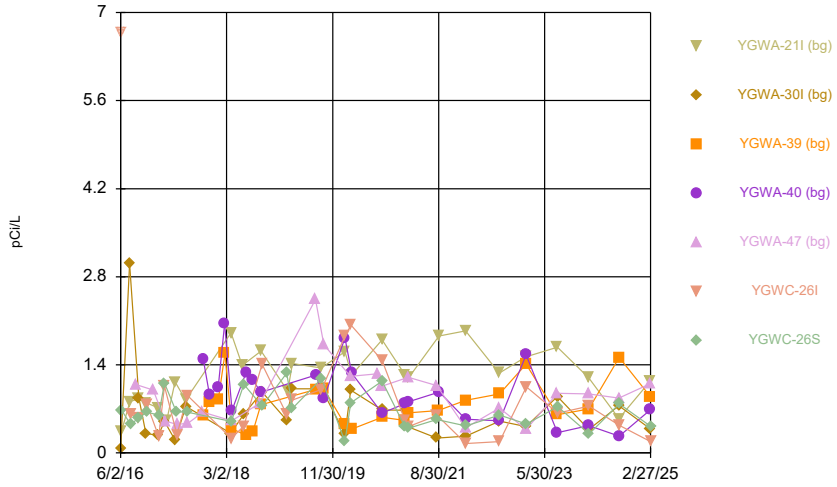
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 5/21/2025 2:47 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

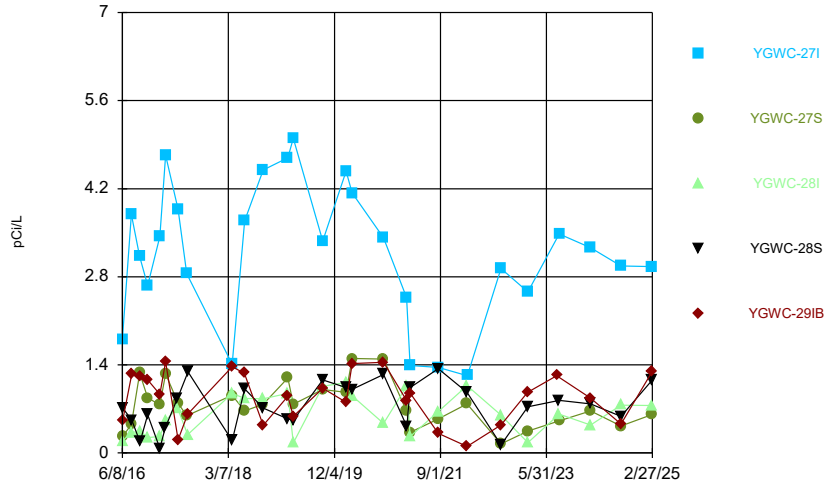
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 5/21/2025 2:47 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

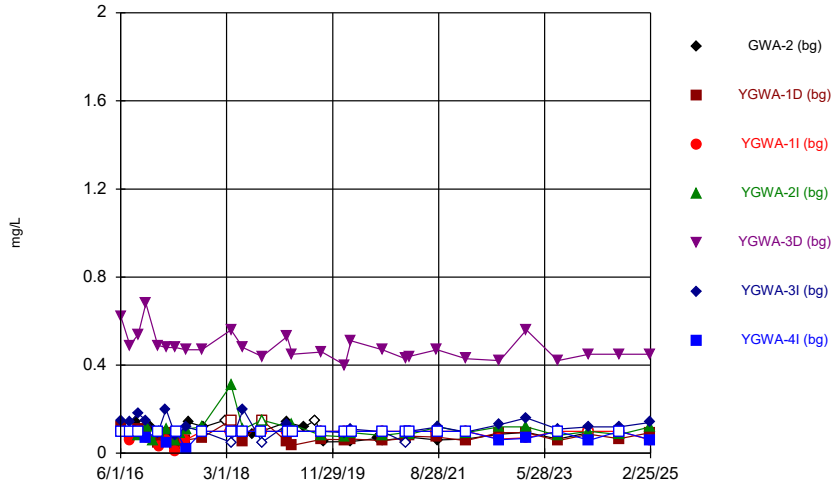
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 5/21/2025 2:47 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

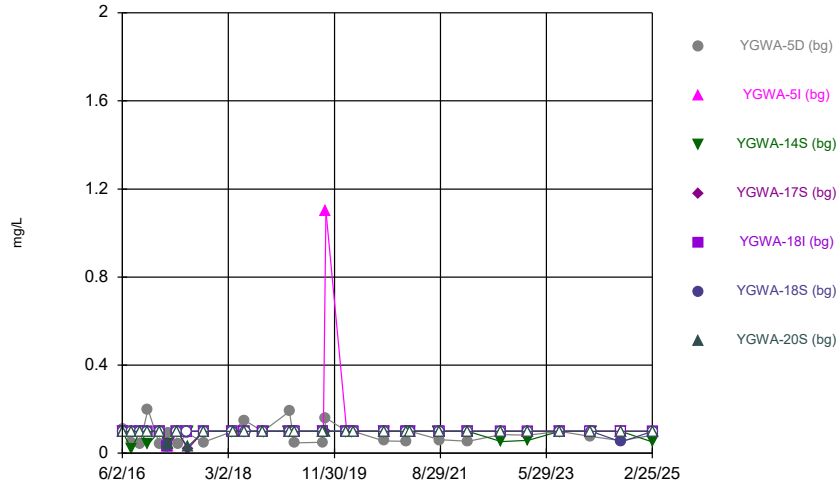
Time Series



Constituent: Fluoride Analysis Run 5/21/2025 2:47 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

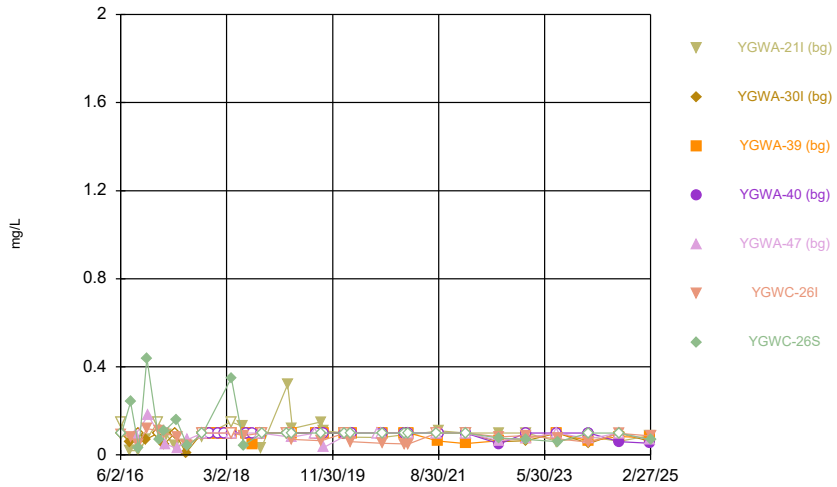
Time Series



Constituent: Fluoride Analysis Run 5/21/2025 2:47 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

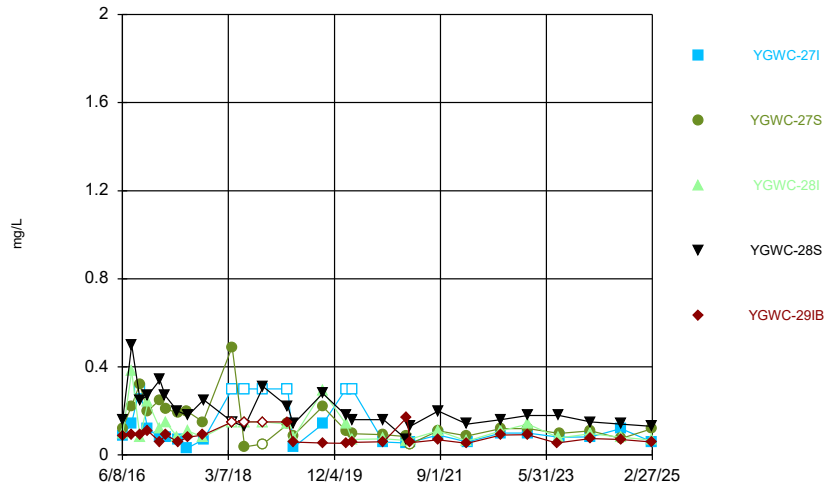
Time Series



Constituent: Fluoride Analysis Run 5/21/2025 2:47 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

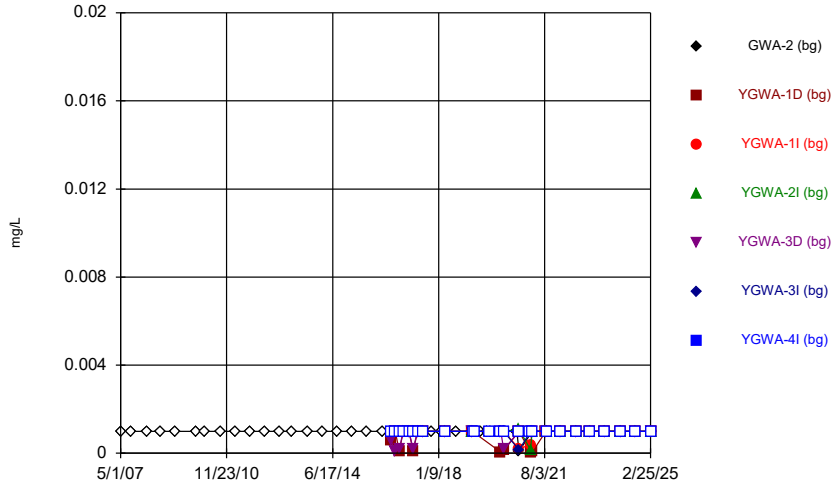
Time Series



Constituent: Fluoride Analysis Run 5/21/2025 2:47 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

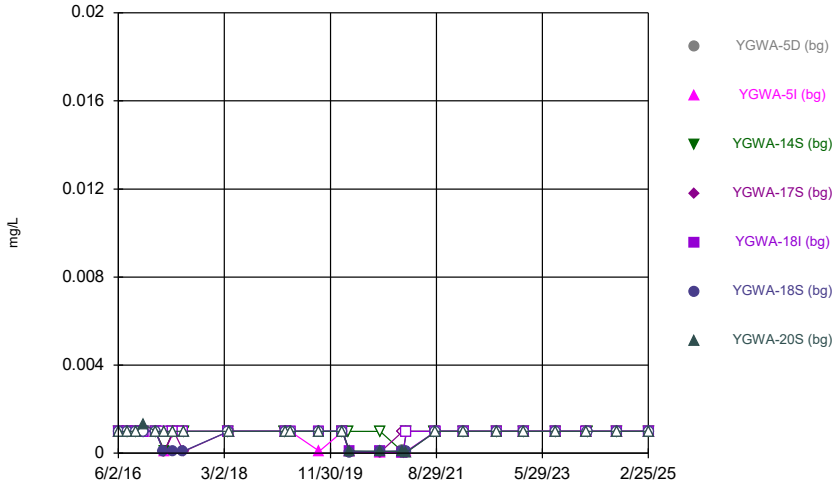
Time Series



Constituent: Lead Analysis Run 5/21/2025 2:47 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

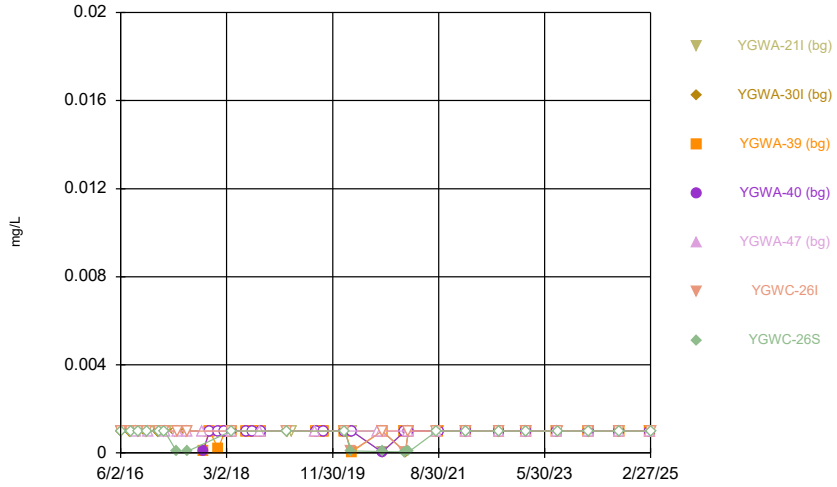
Time Series



Constituent: Lead Analysis Run 5/21/2025 2:47 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

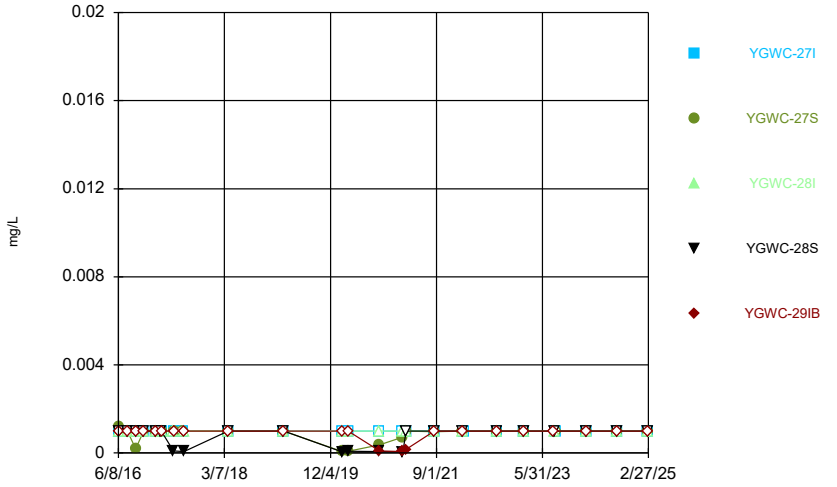
Time Series



Constituent: Lead Analysis Run 5/21/2025 2:47 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

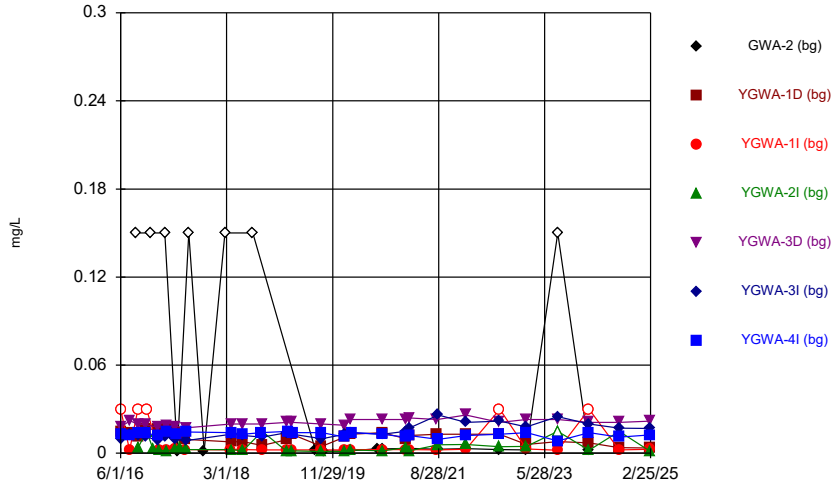
Time Series



Constituent: Lead Analysis Run 5/21/2025 2:47 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

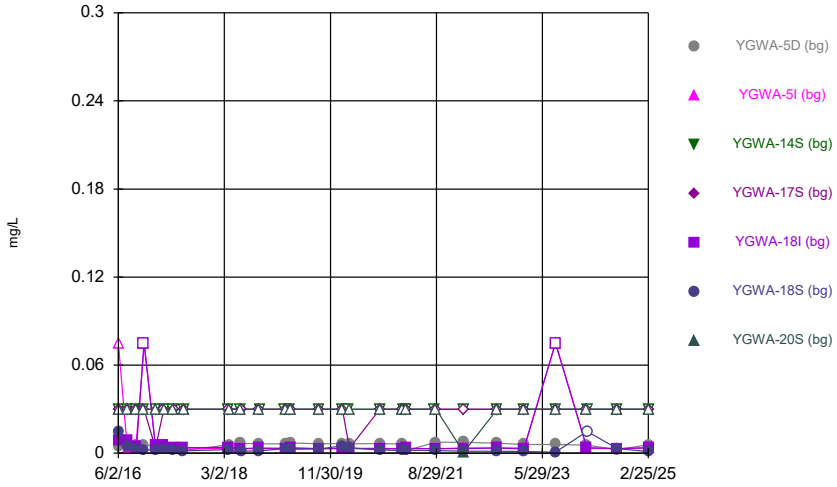
Time Series



Constituent: Lithium Analysis Run 5/21/2025 2:47 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

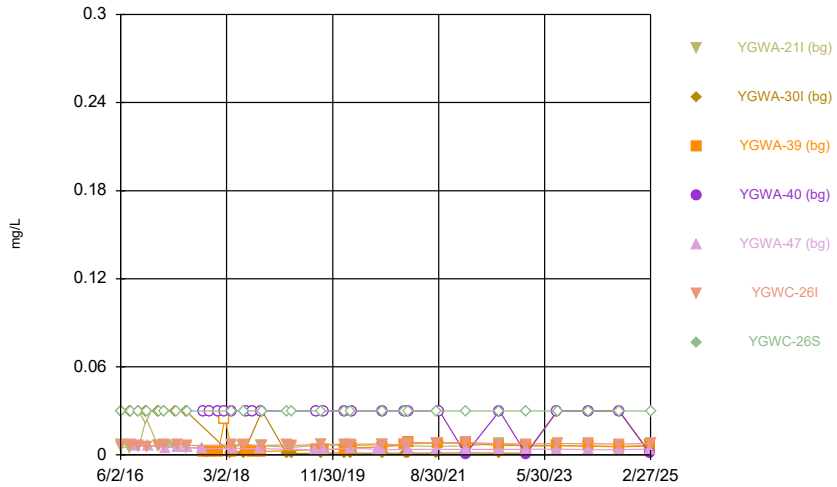
Time Series



Constituent: Lithium Analysis Run 5/21/2025 2:47 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

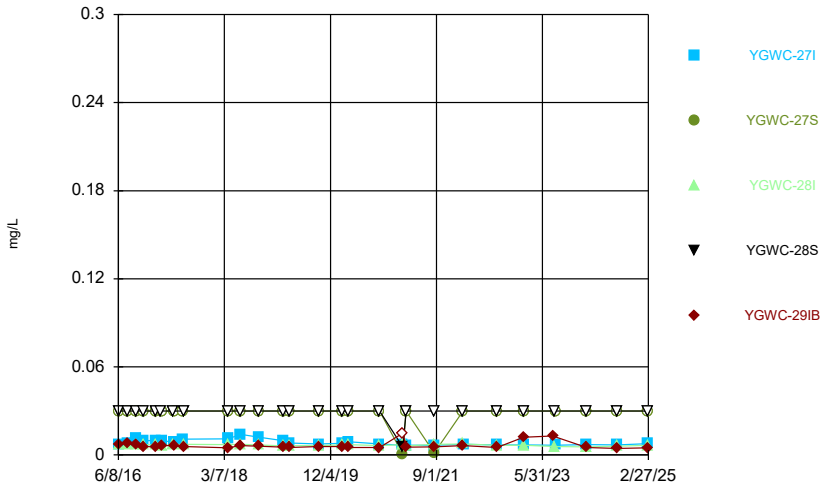
Time Series



Constituent: Lithium Analysis Run 5/21/2025 2:47 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

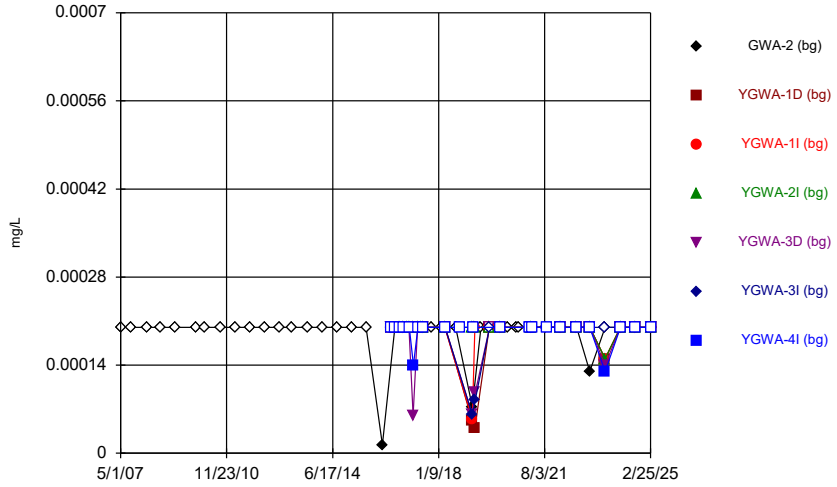
Time Series



Constituent: Lithium Analysis Run 5/21/2025 2:47 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

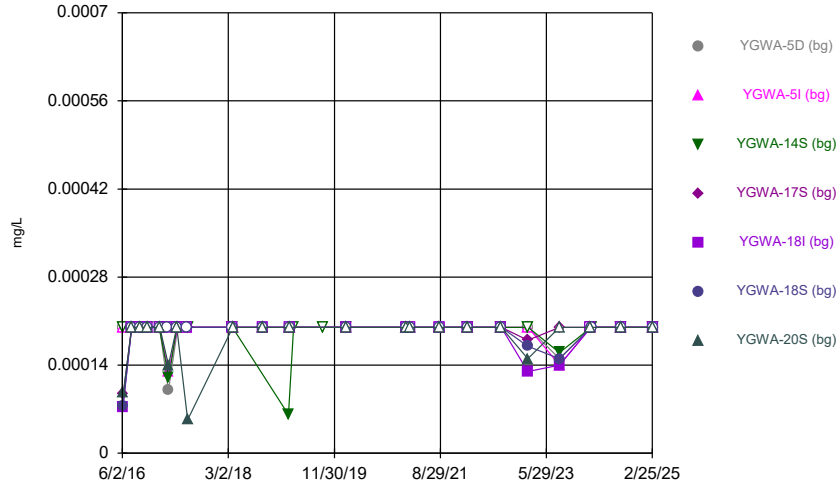
Time Series



Constituent: Mercury Analysis Run 5/21/2025 2:47 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

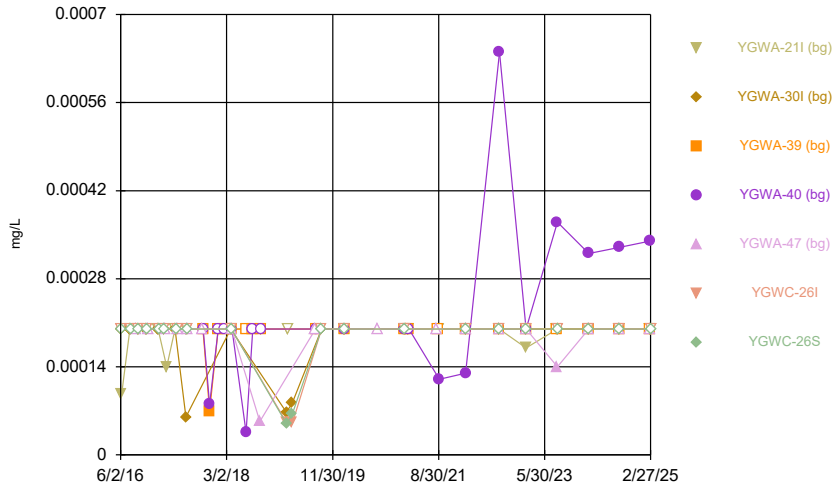
Time Series



Constituent: Mercury Analysis Run 5/21/2025 2:47 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

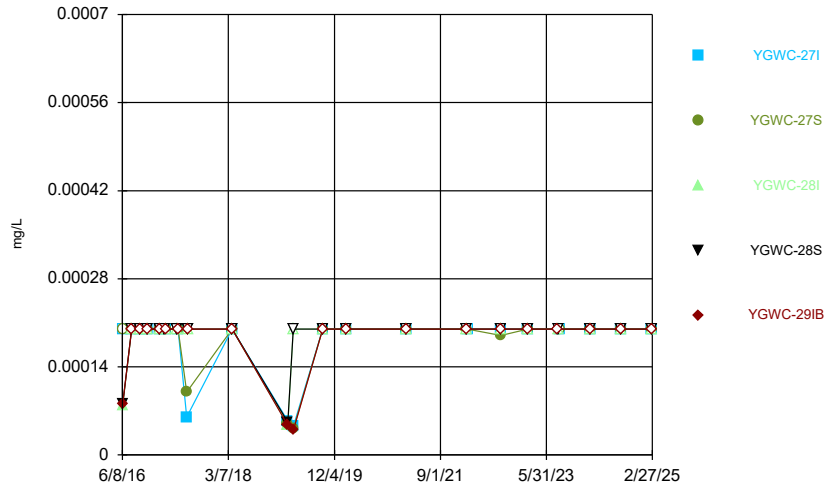
Time Series



Constituent: Mercury Analysis Run 5/21/2025 2:47 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

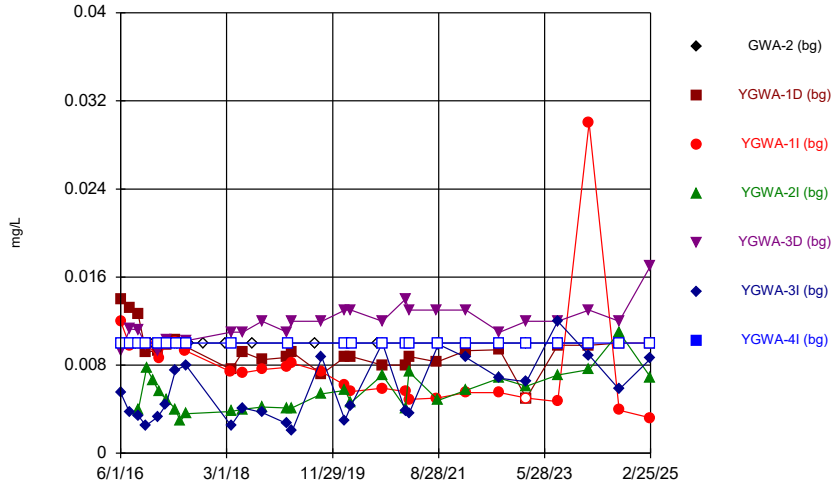
Time Series



Constituent: Mercury Analysis Run 5/21/2025 2:47 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

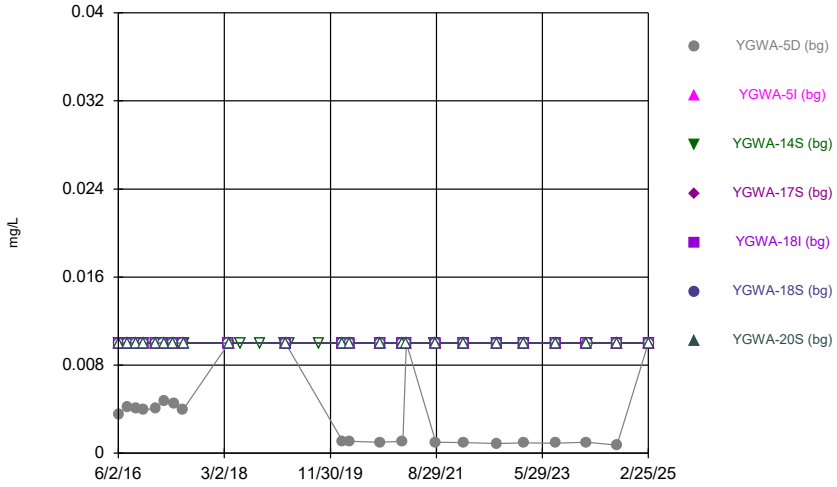
Time Series



Constituent: Molybdenum Analysis Run 5/21/2025 2:47 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

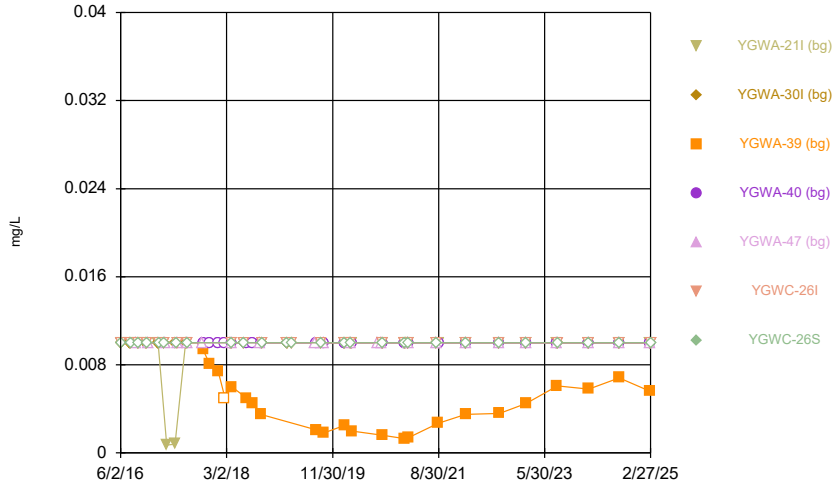
Time Series



Constituent: Molybdenum Analysis Run 5/21/2025 2:47 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

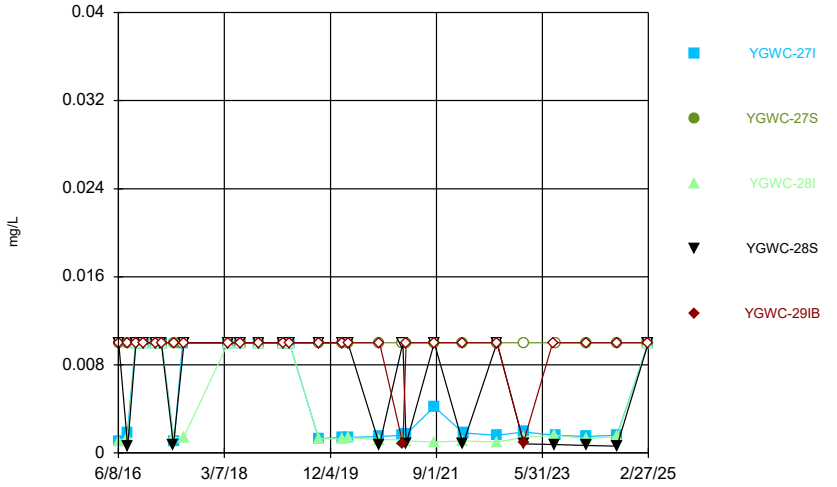
Time Series



Constituent: Molybdenum Analysis Run 5/21/2025 2:47 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

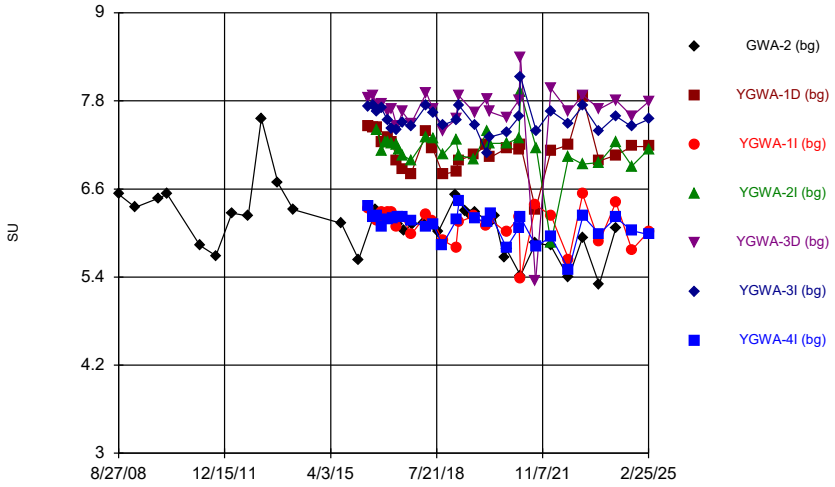
Time Series



Constituent: Molybdenum Analysis Run 5/21/2025 2:47 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

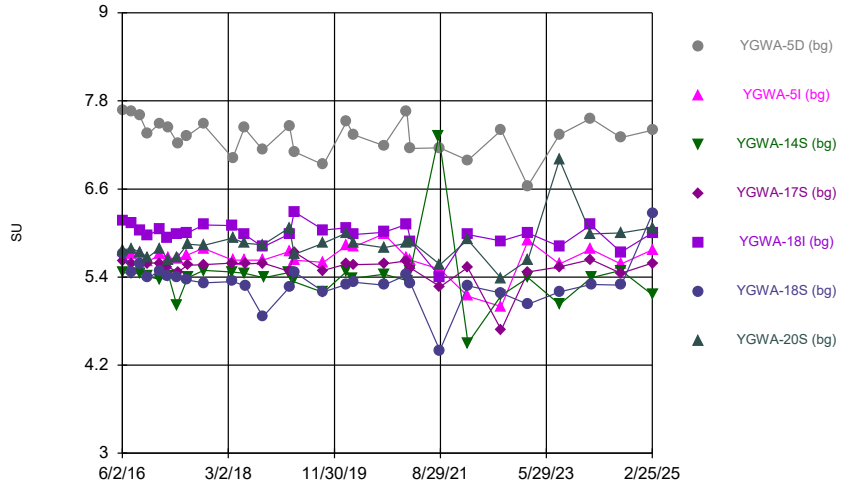
Time Series



Constituent: pH, Field Analysis Run 5/21/2025 2:47 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

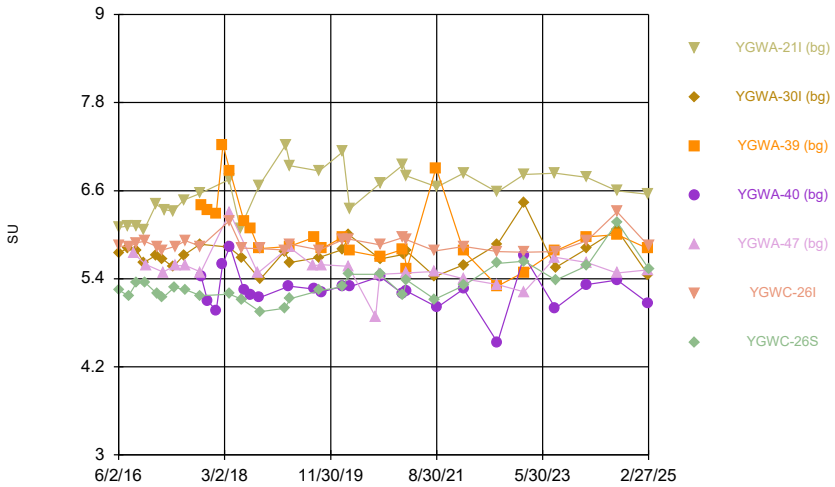
Time Series



Constituent: pH, Field Analysis Run 5/21/2025 2:47 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

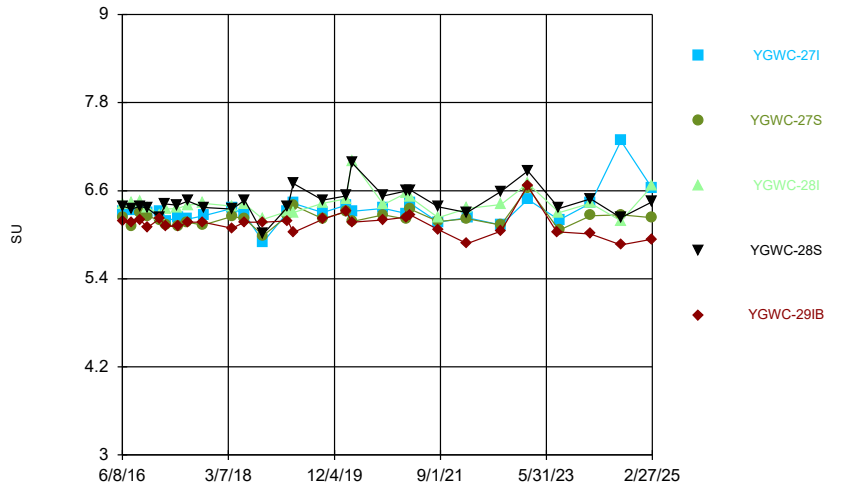
Time Series



Constituent: pH, Field Analysis Run 5/21/2025 2:47 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

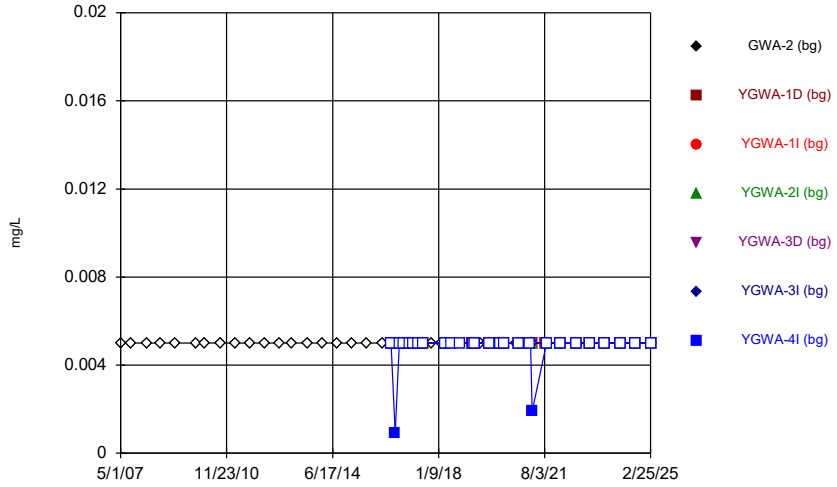
Time Series



Constituent: pH, Field Analysis Run 5/21/2025 2:47 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

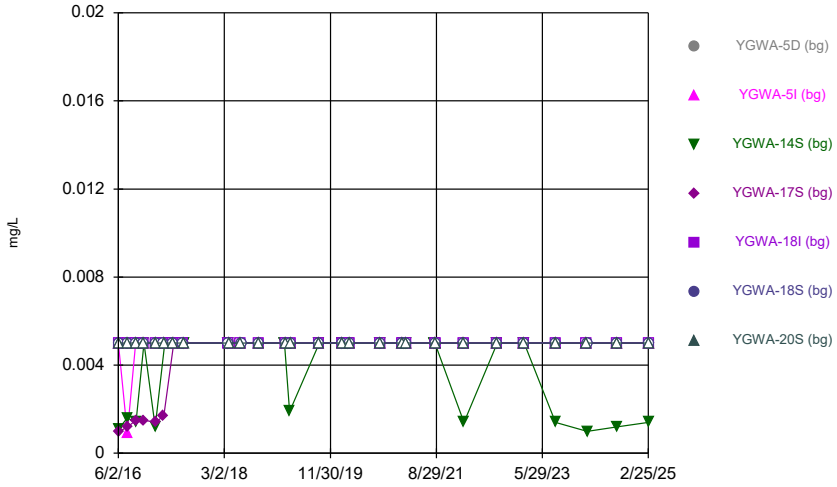
Time Series



Constituent: Selenium Analysis Run 5/21/2025 2:47 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

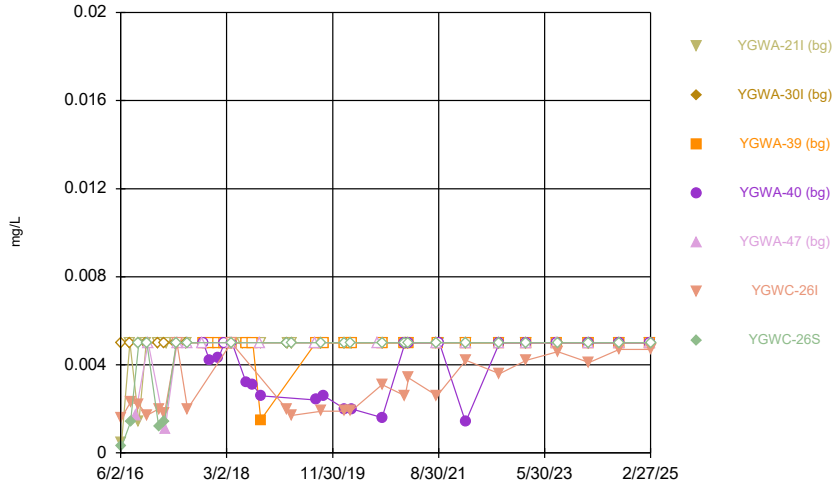
Time Series



Constituent: Selenium Analysis Run 5/21/2025 2:47 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

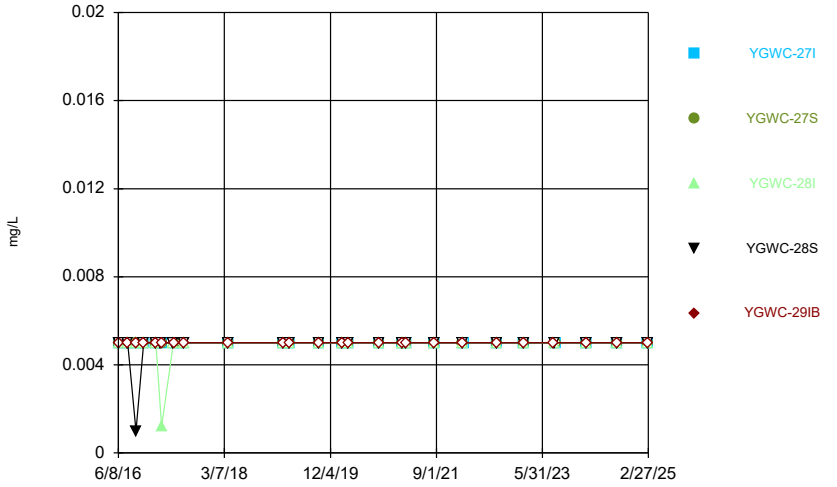
Time Series



Constituent: Selenium Analysis Run 5/21/2025 2:47 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

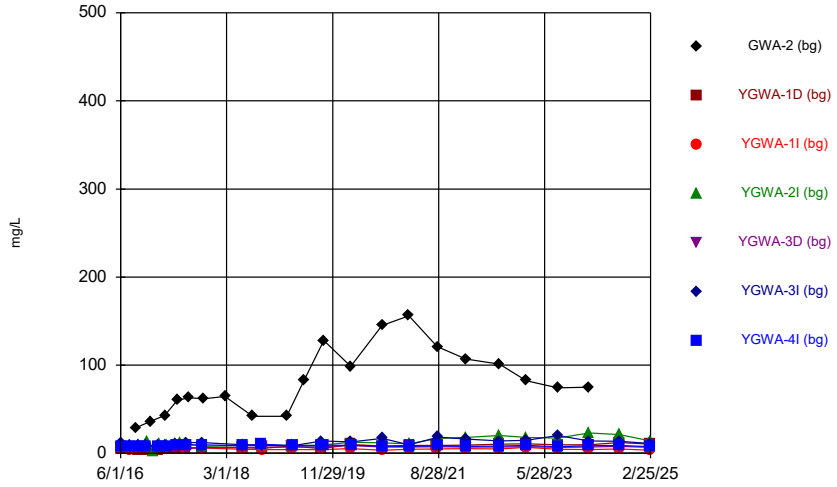
Time Series



Constituent: Selenium Analysis Run 5/21/2025 2:47 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Time Series



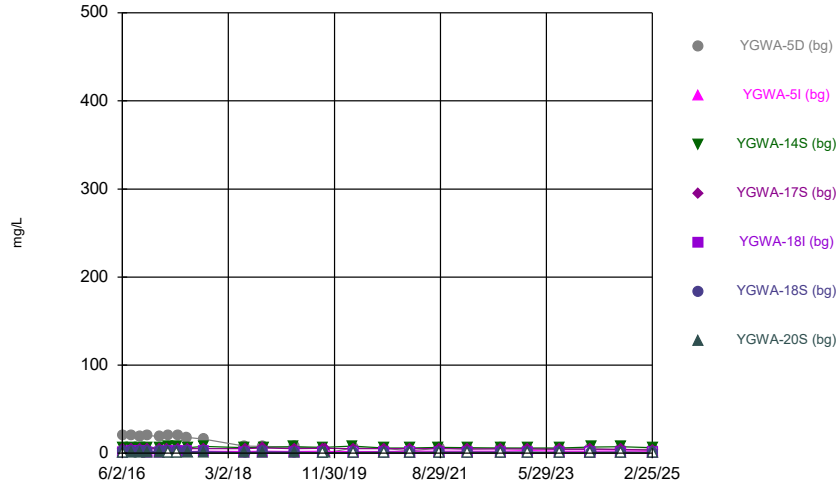
Constituent: Sulfate Analysis Run 5/21/2025 2:47 PM

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series

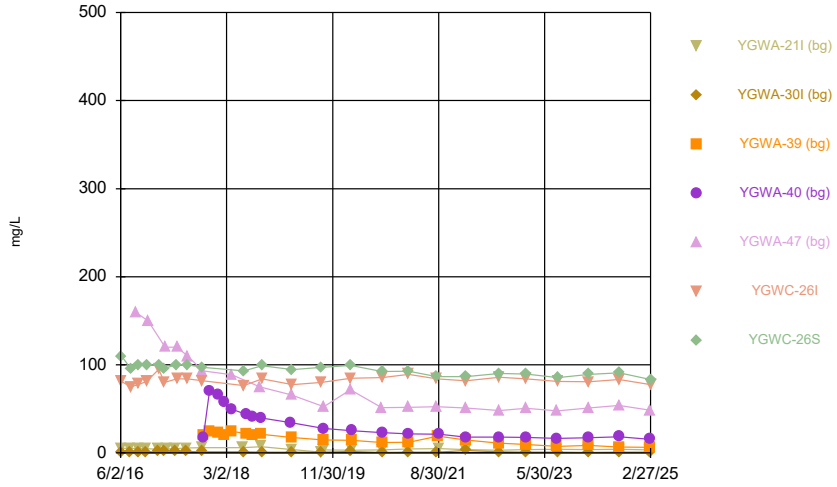


Constituent: Sulfate Analysis Run 5/21/2025 2:47 PM

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Time Series

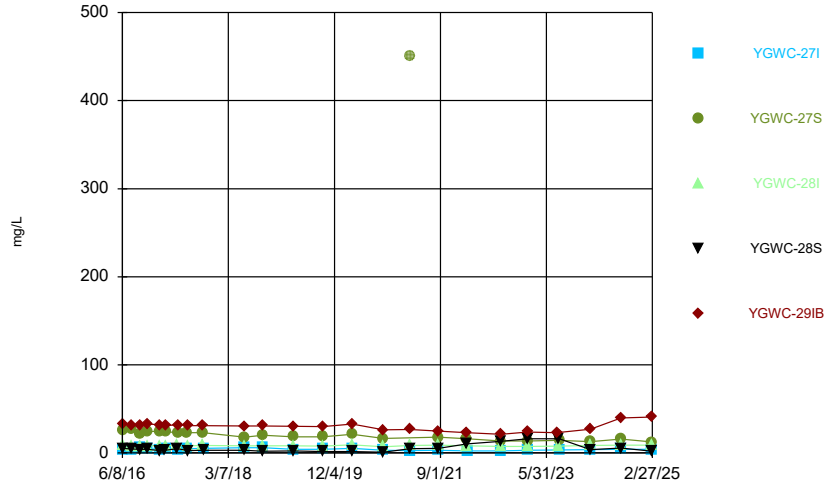


Constituent: Sulfate Analysis Run 5/21/2025 2:47 PM

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Time Series

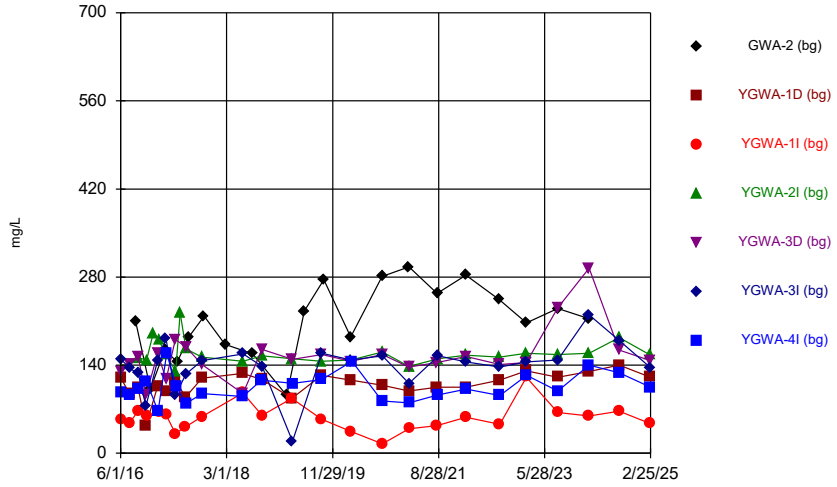


Constituent: Sulfate Analysis Run 5/21/2025 2:48 PM

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Time Series

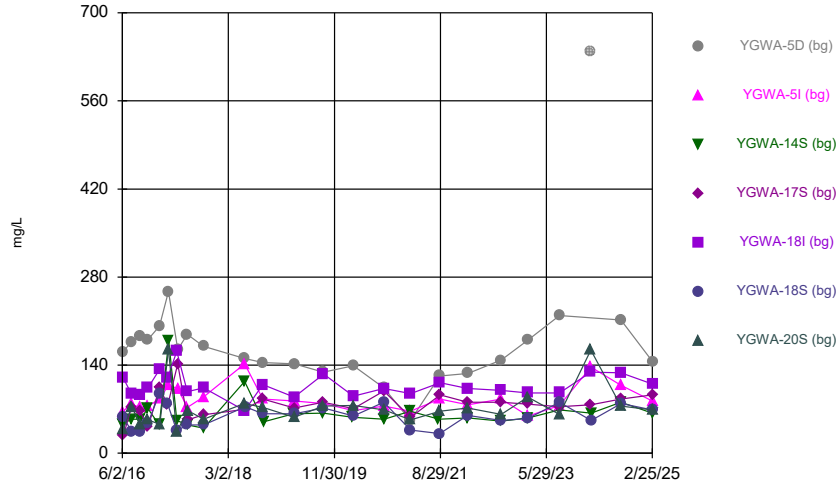


Constituent: TDS Analysis Run 5/21/2025 2:48 PM

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Time Series

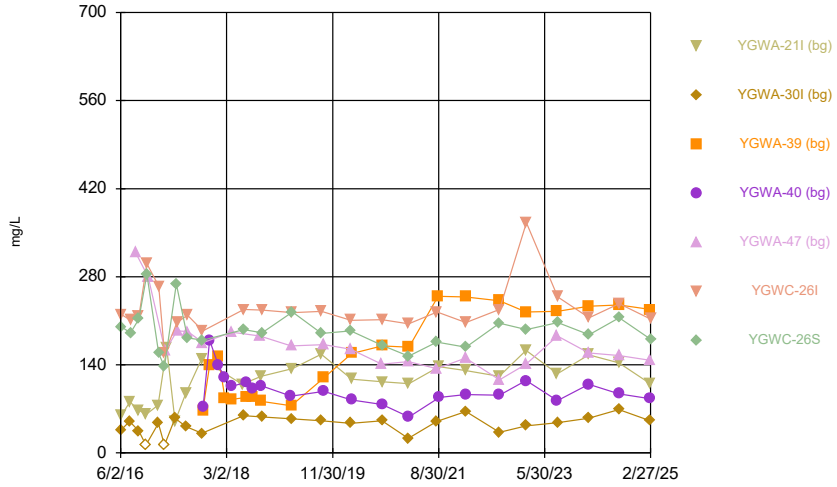


Constituent: TDS Analysis Run 5/21/2025 2:48 PM

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series

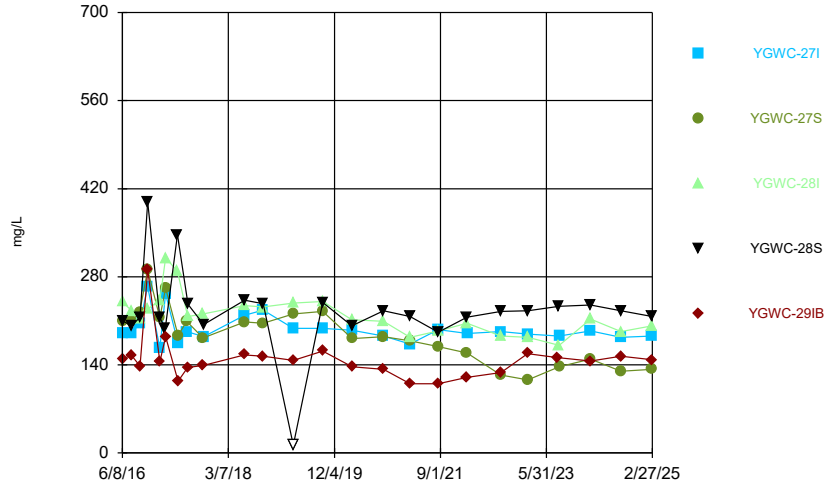


Constituent: TDS Analysis Run 5/21/2025 2:48 PM

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series

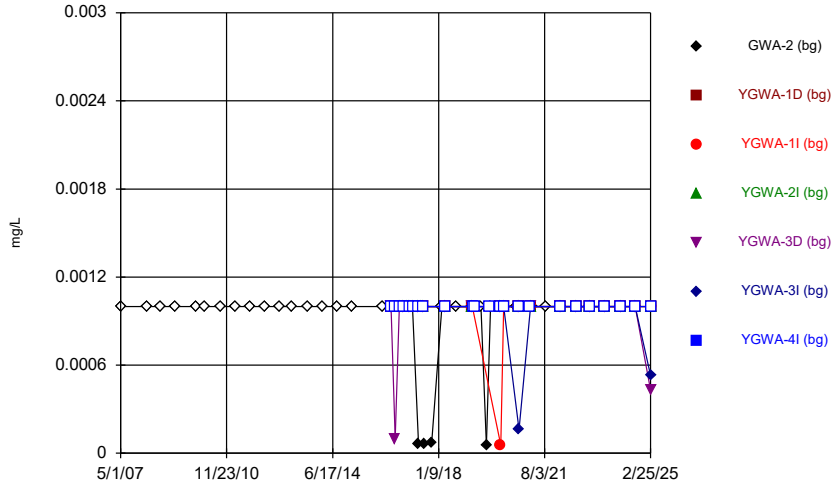


Constituent: TDS Analysis Run 5/21/2025 2:48 PM

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

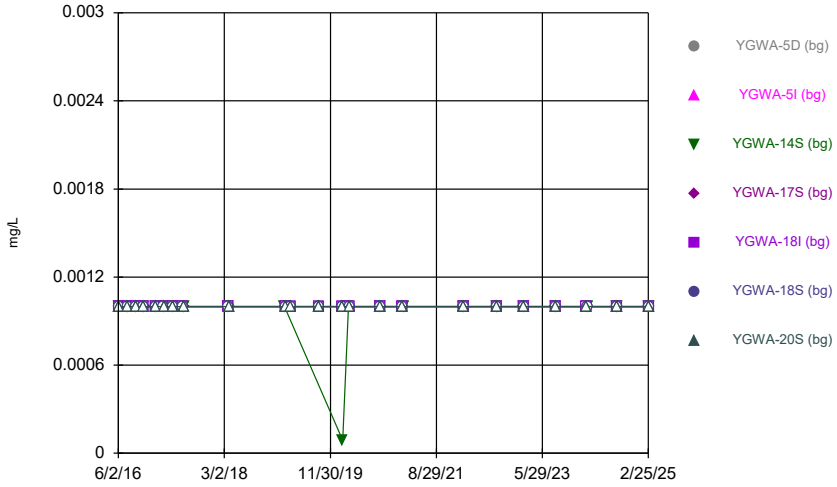
Time Series



Constituent: Thallium Analysis Run 5/21/2025 2:48 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

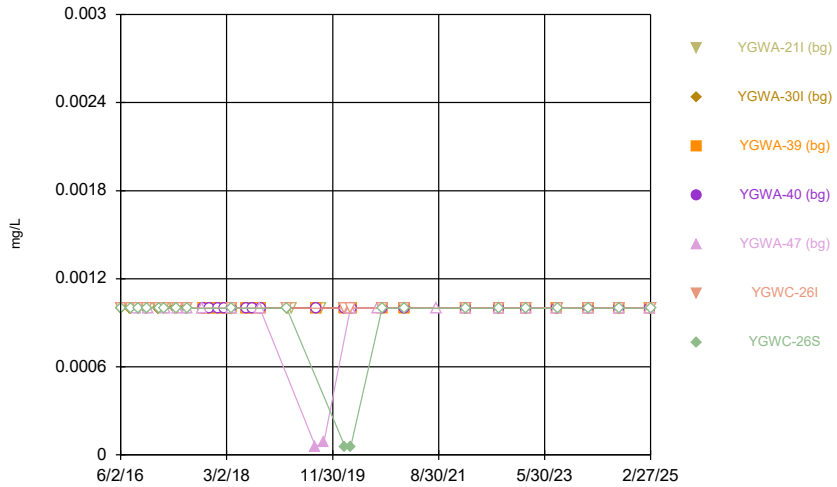
Time Series



Constituent: Thallium Analysis Run 5/21/2025 2:48 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

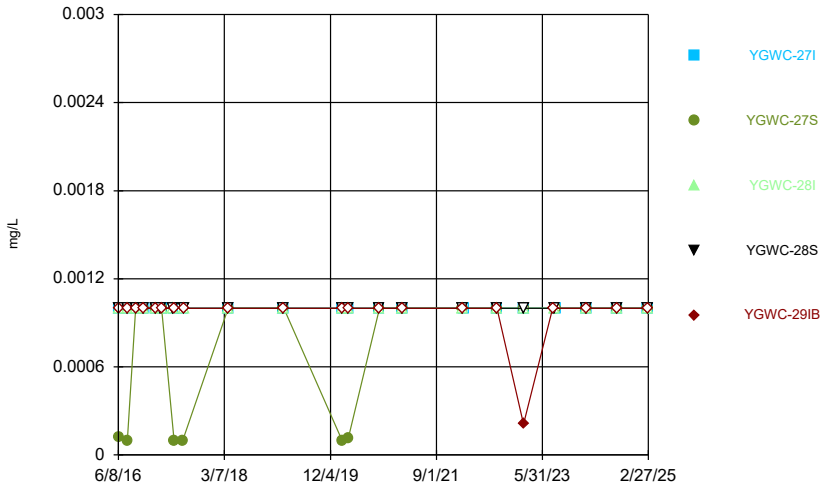
Time Series



Constituent: Thallium Analysis Run 5/21/2025 2:48 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Thallium Analysis Run 5/21/2025 2:48 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (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
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)
8/31/2016	<0.003						
9/13/2016		0.001 (J)	<0.003				
9/14/2016				<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
11/4/2016			<0.003	<0.003			
11/28/2016	0.0014 (J)						
12/15/2016				0.0012 (J)			
1/11/2017		<0.003			<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
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
5/8/2017	<0.003						
5/26/2017				0.0005 (J)			
6/27/2017		<0.003	<0.003				
6/28/2017				<0.003	<0.003	<0.003	
6/29/2017							<0.003
7/17/2017	<0.003						
10/16/2017	<0.003						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)
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
8/6/2018	<0.003						
2/25/2019	<0.003						
2/27/2019		<0.003	<0.003	<0.003	<0.003	<0.003	
3/4/2019							<0.003
4/3/2019							<0.003
6/12/2019	<0.003						
8/19/2019	<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
3/17/2020	<0.003						
3/18/2020			0.0004 (J)				
3/19/2020		<0.003		0.0003 (J)	0.00064 (J)	<0.003	
3/25/2020							<0.003
8/26/2020	0.00042 (J)						
9/22/2020	0.00044 (J)						<0.003
9/23/2020		<0.003	<0.003	<0.003	<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						
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
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	
2/11/2022							<0.003
8/30/2022	<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			
2/8/2023					<0.003	<0.003	
2/9/2023							<0.003
8/15/2023	<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)
8/20/2024		0.00088 (J)	<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

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/2/2016	<0.003	<0.003	<0.003				
6/6/2016					<0.003	<0.003	
6/7/2016				<0.003			<0.003
7/26/2016	<0.003	<0.003	0.0005 (J)				
7/27/2016				<0.003	0.0005 (J)	<0.003	<0.003
9/14/2016	<0.003	<0.003					
9/15/2016			<0.003				
9/16/2016				<0.003		<0.003	
9/19/2016					<0.003		<0.003
11/2/2016	<0.003		<0.003				<0.003
11/3/2016				<0.003	<0.003	<0.003	
11/4/2016		<0.003					
1/10/2017			<0.003				
1/11/2017				<0.003	<0.003	<0.003	
1/12/2017	<0.003	<0.003					
1/13/2017							<0.003
3/1/2017					<0.003	<0.003	
3/2/2017				<0.003			
3/6/2017							<0.003
3/7/2017	<0.003	<0.003					
3/8/2017			<0.003				
4/26/2017			<0.003		<0.003	<0.003	<0.003
5/1/2017	<0.003						
5/2/2017		<0.003		<0.003			
6/27/2017	<0.003	<0.003					
6/28/2017					<0.003	<0.003	
6/29/2017				<0.003			<0.003
6/30/2017			<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
2/26/2019			<0.003				
3/4/2019	<0.003	<0.003					
3/5/2019				<0.003		<0.003	<0.003
3/6/2019					<0.003		
4/2/2019				<0.003			
4/3/2019	<0.003	<0.003			<0.003	<0.003	<0.003
9/24/2019	<0.003	<0.003					
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	<0.003	<0.003				<0.003
3/18/2020			<0.003				
3/24/2020	<0.003	<0.003		<0.003	<0.003	<0.003	<0.003
9/22/2020	<0.003	<0.003					
9/23/2020				<0.003	<0.003	<0.003	
9/24/2020							<0.003
9/25/2020			<0.003				
2/8/2021	<0.003	<0.003					
2/9/2021				<0.003	<0.003	<0.003	0.00032 (J)
2/10/2021			<0.003				
3/2/2021	<0.003	<0.003	<0.003				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
3/3/2021				<0.003	<0.003	0.00067 (J)	<0.003
8/19/2021			<0.003				
8/26/2021	<0.003	<0.003				<0.003	
8/27/2021				<0.003	<0.003		<0.003
2/9/2022				<0.003	<0.003	<0.003	<0.003
2/10/2022	<0.003	<0.003	<0.003				
8/30/2022	<0.003	<0.003		<0.003	<0.003	<0.003	
8/31/2022			<0.003				<0.003
2/7/2023	<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
2/20/2024	<0.003	<0.003		<0.003	<0.003		<0.003
2/23/2024			<0.003			<0.003	
8/20/2024	<0.003	<0.003	<0.003	<0.003	<0.003		<0.003
8/21/2024						<0.003	
2/25/2025	<0.003	<0.003	<0.003	<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 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWC-26I	YGWC-26S
6/2/2016		<0.003					
6/7/2016	<0.003						
6/8/2016						<0.003	<0.003
7/25/2016		0.0007 (J)					
7/28/2016	<0.003						
8/1/2016						<0.003	<0.003
8/30/2016					0.0028 (J)		
9/19/2016	0.001 (J)	<0.003					
9/20/2016						<0.003	<0.003
11/1/2016		<0.003					
11/3/2016	<0.003						
11/7/2016						<0.003	<0.003
11/14/2016					<0.003		
1/13/2017	<0.003						
1/16/2017		<0.003					
1/18/2017						<0.003	<0.003
2/21/2017		<0.003				<0.003	<0.003
2/24/2017					<0.003		
3/6/2017	0.0005 (J)						
4/26/2017	<0.003	<0.003					
5/3/2017							<0.003
5/8/2017					0.0004 (J)	<0.003	
6/29/2017	<0.003						
6/30/2017		<0.003					
7/10/2017						<0.003	<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				
2/19/2018				<0.003			
2/20/2018			<0.003				
3/27/2018		<0.003					
3/29/2018	<0.003						
3/30/2018						<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					
2/27/2019						<0.003	<0.003
3/5/2019	0.0011 (J)						
4/2/2019	0.0011 (J)						
8/20/2019					<0.003		
8/21/2019			<0.003	<0.003			
9/24/2019	0.0035						
2/12/2020	0.0015 (J)	<0.003	<0.003	<0.003			
2/13/2020						0.00052 (J)	0.0016 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWC-26I	YGWC-26S
3/19/2020		<0.003					0.0017 (J)
3/20/2020						0.00059 (J)	
3/24/2020	0.0017 (J)			<0.003			
3/25/2020			0.0014 (J)				
8/27/2020					0.00048 (J)		
9/22/2020					<0.003		
9/24/2020	0.0047	<0.003	<0.003	<0.003		<0.003	<0.003
2/9/2021	0.0013 (J)						
2/10/2021			<0.003	<0.003		<0.003	<0.003
2/11/2021		<0.003					
3/1/2021		<0.003			0.00048 (J)		
3/2/2021							<0.003
3/3/2021						<0.003	
3/4/2021	0.0014 (J)		<0.003	<0.003			
8/19/2021		<0.003			<0.003		<0.003
8/20/2021						<0.003	
8/26/2021			<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						
2/10/2022						<0.003	<0.003
2/11/2022		<0.003					
8/30/2022	0.0046						
8/31/2022		<0.003	<0.003	<0.003	<0.003	0.001 (J)	<0.003
2/7/2023	<0.003		<0.003				
2/8/2023		<0.003		<0.003	<0.003		
2/9/2023						<0.003	<0.003
8/15/2023	<0.003		<0.003	<0.003	<0.003		
8/16/2023		<0.003					
8/17/2023						<0.003	<0.003
2/20/2024	0.0013 (J)	<0.003	<0.003	<0.003	<0.003		
2/22/2024						<0.003	<0.003
8/20/2024	<0.003	<0.003			<0.003		
8/21/2024			<0.003	<0.003		<0.003	<0.003
2/25/2025	0.00054 (J)	<0.003	<0.003	<0.003	<0.003		
2/27/2025						<0.003	<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
6/8/2016	<0.003	<0.003			
6/9/2016			<0.003	<0.003	<0.003
8/1/2016	<0.003	<0.003			
8/2/2016			<0.003	<0.003	<0.003
9/20/2016	<0.003	<0.003			
9/21/2016			<0.003	<0.003	<0.003
11/7/2016	<0.003	<0.003		<0.003	<0.003
11/8/2016			<0.003		
1/18/2017	<0.003		<0.003	<0.003	
1/19/2017		<0.003			<0.003
2/21/2017				<0.003	
2/22/2017		<0.003	<0.003		<0.003
2/23/2017	<0.003				
5/5/2017			<0.003	<0.003	
5/8/2017	<0.003	<0.003			<0.003
6/30/2017	<0.003	<0.003			
7/5/2017			<0.003		<0.003
7/7/2017				<0.003	
3/29/2018	<0.003	<0.003			<0.003
3/30/2018			<0.003	<0.003	
2/27/2019	<0.003	<0.003	<0.003	<0.003	<0.003
2/13/2020	<0.003	<0.003	<0.003	<0.003	<0.003
3/19/2020			<0.003	<0.003	
3/20/2020	0.00033 (J)	0.0003 (J)			<0.003
9/24/2020	<0.003	<0.003	<0.003	<0.003	0.0013 (J)
2/10/2021	<0.003	<0.003			
2/11/2021			<0.003		
2/12/2021				<0.003	<0.003
3/3/2021	<0.003	<0.003	<0.003	<0.003	<0.003
8/20/2021	<0.003	<0.003	<0.003	<0.003	<0.003
2/8/2022		<0.003	<0.003	<0.003	<0.003
2/10/2022	<0.003				
9/1/2022	<0.003	<0.003	<0.003	<0.003	<0.003
2/8/2023					<0.003
2/9/2023	0.0014 (J)	<0.003	<0.003	<0.003	
8/2/2023					<0.003
8/16/2023			0.0023 (J)	<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
8/21/2024	<0.003				
8/22/2024		<0.003	<0.003	<0.003	<0.003
2/26/2025	<0.003		<0.003	<0.003	<0.003
2/27/2025		<0.003			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (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
7/21/2016	<0.005						
7/25/2016			<0.005			<0.005	
7/26/2016		0.0016 (J)			<0.005		<0.005
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		
11/1/2016		<0.005			<0.005	<0.005	
11/2/2016							<0.005
11/4/2016			<0.005	0.0017 (J)			
11/28/2016	<0.005						
12/15/2016				0.0023 (J)			
1/11/2017		0.0017 (J)			<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
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
5/8/2017	<0.005						
5/26/2017				0.0005 (J)			
6/27/2017		0.0018 (J)	<0.005				
6/28/2017				0.0016 (J)	0.0007 (J)	0.0011 (J)	
6/29/2017							<0.005
7/17/2017	<0.005						
10/16/2017	<0.005						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)
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
6/5/2018		0.0013 (J)					
6/6/2018			<0.005				
6/7/2018				0.00082 (J)	<0.005		0.00059 (J)
6/8/2018						<0.005	
8/6/2018	<0.005						
9/26/2018							<0.005
10/1/2018		0.0016 (J)	<0.005	0.0011 (J)	<0.005	<0.005	
2/25/2019	<0.005						
2/27/2019		0.0015 (J)	<0.005	0.001 (J)	<0.005	<0.005	
3/4/2019							<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
6/12/2019	0.00038 (J)						
8/19/2019	0.00095 (J)						
9/24/2019		0.0014 (J)	<0.005	<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
3/17/2020	<0.005						
3/18/2020			<0.005				
3/19/2020		0.00095 (J)		0.00066 (J)	<0.005	<0.005	
3/25/2020							<0.005
8/26/2020	<0.005						
9/22/2020	<0.005						<0.005
9/23/2020		0.0011 (J)	<0.005	0.001 (J)	<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						
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
8/27/2021				<0.005		<0.005	
2/8/2022	0.0033 (J)						
2/9/2022		0.0031 (J)	0.0033 (J)	0.0037 (J)	0.002 (J)	0.0018 (J)	
2/11/2022							0.0014 (J)
8/30/2022	0.0024 (J)	<0.005		0.0027 (J)			
8/31/2022			<0.005		0.0028 (J)	<0.005	<0.005
2/7/2023	<0.005	<0.005	<0.005	<0.005			
2/8/2023					0.003 (J)	0.0024 (J)	
2/9/2023							<0.005
8/15/2023	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005
8/16/2023						<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)
2/20/2024	0.0015 (J)	<0.005	<0.005	0.0019 (J)	0.0027 (J)	0.0013 (J)	<0.005
8/20/2024		0.00099 (J)	<0.005	<0.005	<0.005	<0.005	<0.005
2/25/2025		0.0016 (J)	<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 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/2/2016	0.00071 (J)	<0.005	<0.005				
6/6/2016					<0.005	<0.005	
6/7/2016				<0.005			<0.005
7/26/2016	0.001 (J)	<0.005	<0.005				
7/27/2016				<0.005	<0.005	<0.005	<0.005
9/14/2016	<0.005	<0.005					
9/15/2016			<0.005				
9/16/2016				<0.005		<0.005	
9/19/2016					<0.005		<0.005
11/2/2016	<0.005		<0.005				<0.005
11/3/2016				<0.005	<0.005	<0.005	
11/4/2016		<0.005					
1/10/2017			<0.005				
1/11/2017				<0.005	<0.005	<0.005	
1/12/2017	<0.005	<0.005					
1/13/2017							<0.005
3/1/2017					<0.005	<0.005	
3/2/2017				<0.005			
3/6/2017							<0.005
3/7/2017	0.0012 (J)	<0.005					
3/8/2017			<0.005				
4/26/2017			0.0007 (J)		0.0008 (J)	<0.005	<0.005
5/1/2017	0.001 (J)						
5/2/2017		0.0006 (J)		<0.005			
6/27/2017	0.0019 (J)	<0.005					
6/28/2017					<0.005	<0.005	
6/29/2017				<0.005			<0.005
6/30/2017			<0.005				
3/27/2018			<0.005				
3/28/2018				<0.005	<0.005	0.00061 (J)	
3/29/2018	0.0006 (J)	<0.005					<0.005
6/6/2018	0.0013 (J)						<0.005
6/7/2018		<0.005			0.00066 (J)		
6/8/2018			<0.005				
6/11/2018				<0.005		<0.005	
9/25/2018				<0.005	<0.005	<0.005	<0.005
9/26/2018	0.0014 (J)	<0.005					
10/1/2018			<0.005				
2/26/2019			<0.005				
3/4/2019	<0.005	<0.005					
3/5/2019				<0.005		<0.005	<0.005
3/6/2019					<0.005		
3/29/2019			<0.005				
4/2/2019				<0.005			
4/3/2019	<0.005	<0.005			<0.005	<0.005	<0.005
9/24/2019	0.00043 (J)	<0.005					
9/25/2019			<0.005	<0.005			<0.005
9/26/2019					<0.005	<0.005	
2/11/2020				0.0022 (J)	0.0014 (J)	0.0026 (J)	
2/12/2020	0.0046 (J)	0.002 (J)	<0.005				<0.005
3/18/2020			<0.005				
3/24/2020	0.00065 (J)	<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 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
9/22/2020	0.001 (J)	<0.005					
9/23/2020				<0.005	<0.005	<0.005	
9/24/2020							<0.005
9/25/2020			<0.005				
2/8/2021	<0.005	<0.005					
2/9/2021				<0.005	<0.005	<0.005	<0.005
2/10/2021			<0.005				
3/2/2021	<0.005	<0.005	<0.005				
3/3/2021				<0.005	<0.005	<0.005	<0.005
8/19/2021			<0.005				
8/26/2021	0.0016 (J)	<0.005				<0.005	
8/27/2021				<0.005	<0.005		<0.005
2/9/2022				0.0024 (J)	0.0022 (J)	0.0024 (J)	0.0021 (J)
2/10/2022	0.004 (J)	0.0016 (J)	0.0016 (J)				
8/30/2022	0.0031 (J)	<0.005		<0.005	<0.005	<0.005	
8/31/2022			<0.005				<0.005
2/7/2023	0.003 (J)			<0.005	<0.005	<0.005	<0.005
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
2/20/2024	0.003 (J)	<0.005		<0.005	<0.005		<0.005
2/23/2024			<0.005			<0.005	
8/20/2024	0.0012 (J)	<0.005	<0.005	<0.005	<0.005		<0.005
8/21/2024						<0.005	
2/25/2025	<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 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWC-26I	YGWC-26S
6/2/2016		<0.005					
6/7/2016	<0.005						
6/8/2016						<0.005	<0.005
7/25/2016		<0.005					
7/28/2016	<0.005						
8/1/2016						<0.005	<0.005
8/30/2016					<0.005		
9/19/2016	<0.005	<0.005					
9/20/2016						<0.005	<0.005
11/1/2016		<0.005					
11/3/2016	<0.005						
11/7/2016						<0.005	<0.005
11/14/2016					<0.005		
1/13/2017	<0.005						
1/16/2017		<0.005					
1/18/2017						<0.005	<0.005
2/21/2017		<0.005				<0.005	<0.005
2/24/2017					<0.005		
3/6/2017	0.0017 (J)						
4/26/2017	0.0017 (J)	<0.005					
5/3/2017							<0.005
5/8/2017					<0.005	<0.005	
6/29/2017	0.0012 (J)						
6/30/2017		<0.005					
7/10/2017						<0.005	<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				
2/19/2018				<0.005			
2/20/2018			<0.005				
3/27/2018		<0.005					
3/29/2018	0.0015 (J)						
3/30/2018						<0.005	<0.005
4/2/2018					<0.005		
4/3/2018			<0.005	<0.005			
6/5/2018	0.0013 (J)						
6/11/2018		<0.005					
6/13/2018						<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	0.0022 (J)						
10/2/2018		<0.005				<0.005	<0.005
2/26/2019		<0.005					
2/27/2019						<0.005	<0.005
3/5/2019	0.0013 (J)						
4/1/2019		<0.005					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWC-26I	YGWC-26S
4/2/2019	0.00096 (J)					<0.005	<0.005
8/20/2019					<0.005		
8/21/2019			0.00058 (J)	<0.005			
9/24/2019	0.0026 (J)						
9/25/2019		<0.005				<0.005	<0.005
10/8/2019					<0.005		
10/9/2019			0.00063 (J)	<0.005			
2/12/2020	0.0025 (J)	0.0032 (J)	0.00058 (J)	0.0034 (J)			
2/13/2020						<0.005	<0.005
3/17/2020					<0.005		
3/19/2020		<0.005					<0.005
3/20/2020						<0.005	
3/24/2020	0.0013 (J)			<0.005			
3/25/2020			0.0012 (J)				
8/27/2020					<0.005		
9/22/2020					<0.005		
9/24/2020	0.0014 (J)	<0.005	<0.005	<0.005		<0.005	<0.005
2/9/2021	0.001 (J)						
2/10/2021			<0.005	<0.005		<0.005	<0.005
2/11/2021		<0.005					
3/1/2021		<0.005			<0.005		
3/2/2021							<0.005
3/3/2021						<0.005	
3/4/2021	0.00078 (J)		<0.005	<0.005			
8/19/2021		<0.005			<0.005		<0.005
8/20/2021						<0.005	
8/26/2021			<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	0.0036 (J)						
2/10/2022						0.0028 (J)	0.0032 (J)
2/11/2022		0.0014 (J)					
8/30/2022	0.0022 (J)						
8/31/2022		<0.005	0.0029 (J)	<0.005	<0.005	<0.005	<0.005
2/7/2023	0.0028 (J)		0.0029 (J)				
2/8/2023		<0.005		<0.005	<0.005		
2/9/2023						0.0024 (J)	0.0022 (J)
8/15/2023	<0.005		<0.005	<0.005	<0.005		
8/16/2023		<0.005					
8/17/2023						<0.005	<0.005
2/20/2024	<0.005	<0.005	0.002 (J)	0.0012 (J)	<0.005		
2/22/2024						<0.005	<0.005
8/20/2024	<0.005	<0.005			<0.005		
8/21/2024			0.0027 (J)	0.0014 (J)		<0.005	<0.005
2/25/2025	<0.005	<0.005	<0.005	<0.005	<0.005		
2/27/2025						<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
6/8/2016	0.0011 (J)	<0.005			
6/9/2016			<0.005	0.00094 (J)	<0.005
8/1/2016	0.0009 (J)	<0.005			
8/2/2016			<0.005	<0.005	<0.005
9/20/2016	<0.005	<0.005			
9/21/2016			<0.005	<0.005	<0.005
11/7/2016	<0.005	<0.005		<0.005	<0.005
11/8/2016			<0.005		
1/18/2017	<0.005		<0.005	<0.005	
1/19/2017		<0.005			<0.005
2/21/2017				<0.005	
2/22/2017		<0.005	<0.005		<0.005
2/23/2017	<0.005				
5/5/2017			<0.005	<0.005	
5/8/2017	0.0006 (J)	<0.005			<0.005
6/30/2017	0.0011 (J)	0.0005 (J)			
7/5/2017			<0.005		<0.005
7/7/2017				0.0007 (J)	
3/29/2018	0.0006 (J)	<0.005			<0.005
3/30/2018			<0.005	0.00069 (J)	
6/11/2018					<0.005
6/12/2018		<0.005	<0.005	0.00075 (J)	
6/13/2018	<0.005				
10/2/2018	<0.005	<0.005			<0.005
10/3/2018			<0.005	0.0007 (J)	
2/27/2019	0.00069 (J)	<0.005	<0.005	<0.005	<0.005
4/1/2019	<0.005	<0.005	<0.005		<0.005
4/2/2019				<0.005	
9/25/2019					<0.005
9/26/2019	0.00058 (J)	<0.005	<0.005	0.00057 (J)	
2/13/2020	0.00055 (J)	<0.005	<0.005	0.00065 (J)	<0.005
3/19/2020			<0.005	0.00051 (J)	
3/20/2020	0.00042 (J)	<0.005			<0.005
9/24/2020	<0.005	<0.005	<0.005	<0.005	<0.005
2/10/2021	<0.005	<0.005			
2/11/2021			<0.005		
2/12/2021				<0.005	<0.005
3/3/2021	<0.005	<0.005	<0.005	<0.005	<0.005
8/20/2021	<0.005	<0.005	<0.005	<0.005	<0.005
2/8/2022		0.0019 (J)	0.0021 (J)	0.0042 (J)	0.0033 (J)
2/10/2022	0.004 (J)				
9/1/2022	<0.005	<0.005	<0.005	<0.005	<0.005
2/8/2023					<0.005
2/9/2023	<0.005	<0.005	<0.005	<0.005	
8/2/2023					<0.005
8/16/2023			<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
8/21/2024	<0.005				
8/22/2024		<0.005	<0.005	<0.005	<0.005
2/26/2025	<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 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
2/27/2025		<0.005			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (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
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
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
9/15/2016					0.009 (J)		
11/1/2016		0.0062 (J)			0.0079 (J)	0.0027 (J)	
11/2/2016							0.0148
11/4/2016			0.0067 (J)	0.0059 (J)			
11/28/2016	0.0529						
12/15/2016				0.0056 (J)			
1/11/2017		0.0069 (J)			0.0075 (J)	0.0036 (J)	
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
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
5/8/2017	0.065						
5/26/2017				0.0034 (J)			
6/27/2017		0.0054 (J)	0.0092 (J)				
6/28/2017				0.003 (J)	0.0071 (J)	0.004 (J)	
6/29/2017							0.0154
7/17/2017	0.06						
10/16/2017	0.0542						

Time Series

Constituent: Barium (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)
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
6/5/2018		0.0069 (J)					
6/6/2018			0.0082 (J)				
6/7/2018				0.0037 (J)	0.0068 (J)		0.014
6/8/2018						0.0034 (J)	
8/6/2018	0.044						
9/26/2018							0.016
10/1/2018		0.0062 (J)	0.0084 (J)	0.0038 (J)	0.0065 (J)	0.0034 (J)	
2/25/2019	0.045						
2/27/2019		0.0074 (J)	0.008 (J)	0.0035 (J)	0.0059 (J)	0.0034 (J)	
3/4/2019							0.016
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
6/12/2019	0.063						
8/19/2019	0.065						
9/24/2019		0.0072 (J)	0.0086 (J)	0.0038 (J)			
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
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)	
3/25/2020							0.016
8/26/2020	0.044						
9/22/2020	0.045						0.013
9/23/2020		0.0068 (J)	0.0079 (J)	0.0039 (J)	0.0051 (J)	0.0039 (J)	
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						
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
8/27/2021				0.003 (J)		0.0039 (J)	
2/8/2022	0.037						
2/9/2022		0.0067	0.0088	0.0029 (J)	0.0051	0.0031 (J)	
2/11/2022							0.013
8/30/2022	0.031	0.0066		0.003 (J)			
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)			
2/8/2023					0.0048 (J)	0.0029 (J)	
2/9/2023							0.014
8/15/2023	0.03	0.0059	0.0078	0.0031 (J)	0.0046 (J)		0.011
8/16/2023						0.0037 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)
2/20/2024	0.035	0.0062	0.004 (J)	0.0044 (J)	0.0045 (J)	0.0032 (J)	0.014
8/20/2024		0.0061	0.0072	0.0033 (J)	0.0044 (J)	0.0027 (J)	0.012
2/25/2025		0.0071	0.0083	0.0037 (J)	0.0059	0.0036 (J)	0.013

Time Series

Constituent: Barium (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/2/2016	0.0084	0.019	0.0081				
6/6/2016					0.028	0.019	
6/7/2016				0.012			0.014
7/26/2016	0.01	0.0179	0.0082 (J)				
7/27/2016				0.0126	0.0294	0.0167	0.0141
9/14/2016	0.0085 (J)	0.0181					
9/15/2016			0.0087 (J)				
9/16/2016				0.0127		0.0168	
9/19/2016					0.0247		0.0155
11/2/2016	0.0091 (J)		0.0082 (J)				0.0157
11/3/2016				0.0128	0.0248	0.0159	
11/4/2016		0.0165					
1/10/2017			0.0086 (J)				
1/11/2017				0.0142	0.0266	0.0162	
1/12/2017	0.0089 (J)	0.0199					
1/13/2017							0.0158
3/1/2017					0.0275	0.0195	
3/2/2017				0.0155			
3/6/2017							0.0163
3/7/2017	0.009 (J)	0.0196					
3/8/2017			0.0088 (J)				
4/26/2017			0.0085 (J)		0.024	0.0182	0.0177
5/1/2017	0.0083 (J)						
5/2/2017		0.0202		0.0138			
6/27/2017	0.0074 (J)	0.0184					
6/28/2017					0.0237	0.018	
6/29/2017				0.0128			0.017
6/30/2017			0.0081 (J)				
3/27/2018			<0.01				
3/28/2018				0.014	0.024	0.021	
3/29/2018	<0.01	0.021					0.014
6/6/2018	0.008 (J)						0.015
6/7/2018		0.019			0.023		
6/8/2018			0.007 (J)				
6/11/2018				0.013		0.019	
9/25/2018				0.014	0.023	0.019	0.015
9/26/2018	0.0075 (J)	0.019					
10/1/2018			0.007 (J)				
2/26/2019			0.0067 (J)				
3/4/2019	0.0077 (J)	0.019					
3/5/2019				0.015		0.02	0.016
3/6/2019					0.024		
3/29/2019			0.0066 (J)				
4/2/2019				0.016			
4/3/2019	0.0087 (J)	0.023			0.025	0.017	0.018
9/24/2019	0.0075 (J)	0.019					
9/25/2019			0.0071 (J)	0.015			0.014
9/26/2019					0.021	0.017	
2/11/2020				0.015	0.022	0.019	
2/12/2020	0.0079 (J)	0.021	0.007 (J)				0.014
3/18/2020			0.0076 (J)				
3/24/2020	0.0076 (J)	0.021		0.015	0.021	0.017	0.015

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
9/22/2020	0.0076 (J)	0.019					
9/23/2020				0.015	0.021	0.016	
9/24/2020							0.015
9/25/2020			0.0073 (J)				
2/8/2021	0.0079 (J)	0.02					
2/9/2021				0.016	0.023	0.017	0.015
2/10/2021			0.0078 (J)				
3/2/2021	0.014	0.019	0.0076				
3/3/2021				0.017	0.023	0.017	0.015
8/19/2021			0.0077				
8/26/2021	0.0092	0.019				0.015	
8/27/2021				0.016	0.02		0.013
2/9/2022				0.017	0.021	0.014	0.014
2/10/2022	0.0084	0.02	0.0088				
8/30/2022	0.0079	0.017		0.017	0.017	0.012	
8/31/2022			0.0075				0.011
2/7/2023	0.0075			0.017	0.019	0.012	0.014
2/8/2023			0.0089				
2/9/2023		0.019					
8/15/2023	0.0074	0.018	0.0079	0.016	0.02	0.012	0.012
2/20/2024	0.0078	0.019		0.017	0.02		0.013
2/23/2024			0.0096			0.013	
8/20/2024	0.0066	0.018	0.0075	0.016	0.019		0.012
8/21/2024						0.015	
2/25/2025	0.0081	0.02	0.0084	0.018	0.021	0.014	0.015

Time Series

Constituent: Barium (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWC-26I	YGWC-26S
6/2/2016		0.0064					
6/7/2016	0.0058						
6/8/2016						0.068	0.029
7/25/2016		0.0071 (J)					
7/28/2016	0.0068 (J)						
8/1/2016						0.0688	0.0316
8/30/2016					0.0413		
9/19/2016	0.0071 (J)	0.0069 (J)					
9/20/2016						0.0663	0.0298
11/1/2016		0.007 (J)					
11/3/2016	0.0092 (J)						
11/7/2016						0.065	0.0289
11/14/2016					0.0383		
1/13/2017	0.0105						
1/16/2017		0.0071 (J)					
1/18/2017						0.0625	0.0278
2/21/2017		0.0077 (J)				0.0655	0.0282
2/24/2017					0.0351		
3/6/2017	0.0105						
4/26/2017	0.011	0.0074 (J)					
5/3/2017							0.0282
5/8/2017					0.0251	0.0699	
6/29/2017	0.0109						
6/30/2017		0.0076 (J)					
7/10/2017						0.0691	0.0274
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)				
2/19/2018				0.06			
2/20/2018			<0.01				
3/27/2018		<0.01					
3/29/2018	<0.01						
3/30/2018						0.063	0.026
4/2/2018					0.022		
4/3/2018			<0.01	0.045			
6/5/2018	0.011						
6/11/2018		0.007 (J)					
6/13/2018						0.064	0.026
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	0.011						
10/2/2018		0.0069 (J)				0.066	0.026
2/26/2019		0.007 (J)					
2/27/2019						0.065	0.027
3/5/2019	0.011						
4/1/2019		0.0072 (J)					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWC-26I	YGWC-26S
4/2/2019	0.011					0.065	0.027
8/20/2019					0.024		
8/21/2019			0.015	0.035			
9/24/2019	0.011						
9/25/2019		0.0066 (J)				0.063	0.026
10/8/2019					0.025		
10/9/2019			0.013	0.036			
2/12/2020	0.011	0.0073 (J)	0.011	0.035			
2/13/2020						0.06	0.025
3/17/2020					0.035		
3/19/2020		0.0074 (J)					0.027
3/20/2020						0.063	
3/24/2020	0.011			0.033			
3/25/2020			0.014				
8/27/2020					0.027		
9/22/2020					0.026		
9/24/2020	0.01	0.0062 (J)	0.016	0.028		0.058	0.025
2/9/2021	0.011						
2/10/2021			0.027	0.032		0.06	0.031
2/11/2021		0.0077 (J)					
3/1/2021		0.007			0.029		
3/2/2021							0.031
3/3/2021						0.064	
3/4/2021	0.011		0.028	0.032			
8/19/2021		0.0071			0.029		0.023
8/20/2021						0.063	
8/26/2021			0.038				
9/1/2021	0.0099						
9/3/2021				0.035			
2/8/2022			0.041	0.039	0.03		
2/9/2022	0.011						
2/10/2022						0.063	0.027
2/11/2022		0.0077					
8/30/2022	0.0085						
8/31/2022		0.0068	0.035	0.035	0.029	0.057	0.024
2/7/2023	0.01		0.03				
2/8/2023		0.0066		0.037	0.031		
2/9/2023						0.058	0.028
8/15/2023	0.0075		0.031	0.034	0.032		
8/16/2023		0.0066					
8/17/2023						0.061	0.025
2/20/2024	0.0065	0.0064	0.029	0.033	0.031		
2/22/2024						0.057	0.025
8/20/2024	0.0083	0.0067			0.031		
8/21/2024			0.03	0.033		0.058	0.026
2/25/2025	0.0077	0.0076	0.031	0.031	0.033		
2/27/2025						0.058	0.026

Time Series

Constituent: Barium (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
6/8/2016	0.081	0.12			
6/9/2016			0.1	0.22	0.082
8/1/2016	0.0838	0.115			
8/2/2016			0.0836	0.212	0.0781
9/20/2016	0.0687	0.108			
9/21/2016			0.0889	0.228	0.0782
11/7/2016	0.0639	0.102		0.214	0.0712
11/8/2016			0.0886		
1/18/2017	0.0645		0.0862	0.213	
1/19/2017		0.102			0.0689
2/21/2017				0.222	
2/22/2017		0.106	0.0915		0.0741
2/23/2017	0.0728				
5/5/2017			0.0891	0.219	
5/8/2017	0.0721	0.102			0.0725
6/30/2017	0.0666	0.0963			
7/5/2017			0.0862		0.0677
7/7/2017				0.205	
3/29/2018	0.062	0.097			0.055
3/30/2018			0.087	0.2	
6/11/2018					0.068
6/12/2018		0.095	0.088	0.21	
6/13/2018	0.063				
10/2/2018	0.062	0.1			0.067
10/3/2018			0.092	0.22	
2/27/2019	0.066	0.096	0.086	0.21	0.067
4/1/2019	0.066	0.099	0.088		0.063
4/2/2019				0.2	
9/25/2019					0.061
9/26/2019	0.065	0.099	0.087	0.18	
2/13/2020	0.063	0.097	0.089	0.21	0.053
3/19/2020			0.089	0.2	
3/20/2020	0.062	0.095			0.057
9/24/2020	0.069	0.087	0.079	0.18	0.056
2/10/2021	0.08	0.088			
2/11/2021			0.078		
2/12/2021				0.057	0.21
3/3/2021	0.08	0.075	0.077	0.25	0.059
8/20/2021	0.083	0.082	0.079	0.24	0.057
2/8/2022		0.068	0.083	0.2	0.057
2/10/2022	0.079				
9/1/2022	0.076	0.049	0.068	0.2	0.057
2/8/2023					0.098
2/9/2023	0.076	0.049	0.07	0.22	
8/2/2023					0.1
8/16/2023			0.066	0.21	
8/17/2023	0.069	0.051			
2/21/2024	0.06	0.047	0.062	0.21	
2/22/2024					0.081
8/21/2024	0.061				
8/22/2024		0.051	0.065	0.2	0.076
2/26/2025	0.063		0.066	0.2	0.08

Time Series

Constituent: Barium (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
2/27/2025		0.05			

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (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
7/21/2016	<0.0005						
7/25/2016			<0.0005			<0.0005	
7/26/2016		<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
9/15/2016					<0.0005		
11/1/2016		<0.0005			<0.0005	<0.0005	
11/2/2016							<0.0005
11/4/2016			<0.0005	<0.0005			
11/28/2016	<0.0005						
12/15/2016				<0.0005			
1/11/2017		<0.0005			<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
4/26/2017					<0.0005	<0.0005	
4/27/2017		<0.0005	<0.0005				
4/28/2017				<0.0005			
5/1/2017							<0.0005
5/8/2017	<0.0005						
5/26/2017				<0.0005			
6/27/2017		<0.0005	<0.0005				
6/28/2017				<0.0005	<0.0005	<0.0005	
6/29/2017							<0.0005
7/17/2017	<0.0005						
10/16/2017	<0.0005						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)
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
6/7/2018							<0.0005
8/6/2018	<0.0005						
9/26/2018							<0.0005
2/25/2019	<0.0005						
2/27/2019		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
3/4/2019							<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
6/12/2019	<0.0005						
8/19/2019	<0.0005						
9/24/2019		<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
3/17/2020	<0.0005						
3/18/2020			<0.0005				
3/19/2020		<0.0005		<0.0005	<0.0005	<0.0005	
3/25/2020							<0.0005
8/26/2020	<0.0005						
9/22/2020	<0.0005						<0.0005
9/23/2020		<0.0005	<0.0005	<0.0005	<0.0005	5.9E-05 (J)	
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						
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
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	
2/11/2022							<0.0005
8/30/2022	<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			
2/8/2023					<0.0005	<0.0005	
2/9/2023							<0.0005
8/15/2023	<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
8/20/2024		<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

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/2/2016	<0.0005	<0.0005	<0.003				
6/6/2016					<0.0005	<0.0005	
6/7/2016				<0.0005			<0.0005
7/26/2016	<0.0005	<0.0005	0.0002 (J)				
7/27/2016				<0.0005	<0.0005	<0.0005	<0.0005
9/14/2016	<0.0005	<0.0005					
9/15/2016			0.0002 (J)				
9/16/2016				<0.0005		<0.0005	
9/19/2016					<0.0005		<0.0005
11/2/2016	<0.0005		0.0002 (J)				<0.0005
11/3/2016				<0.0005	<0.0005	<0.0005	
11/4/2016		<0.0005					
1/10/2017			0.0002 (J)				
1/11/2017				<0.0005	<0.0005	<0.0005	
1/12/2017	<0.0005	<0.0005					
1/13/2017							<0.0005
3/1/2017					<0.0005	<0.0005	
3/2/2017				8E-05 (J)			
3/6/2017							<0.0005
3/7/2017	<0.0005	<0.0005					
3/8/2017			0.0002 (J)				
4/26/2017			0.0002 (J)		<0.0005	<0.0005	<0.0005
5/1/2017	<0.0005						
5/2/2017		<0.0005		<0.0005			
6/27/2017	<0.0005	<0.0005					
6/28/2017					<0.0005	<0.0005	
6/29/2017				<0.0005			<0.0005
6/30/2017			0.0002 (J)				
3/27/2018			<0.003				
3/28/2018				<0.0005	<0.0005	<0.0005	
3/29/2018	<0.0005	<0.0005					<0.0005
6/6/2018	<0.0005						8E-05 (J)
6/7/2018		<0.0005			<0.0005		
6/11/2018				9E-05 (J)		5.7E-05 (J)	
9/25/2018				8.9E-05 (J)	<0.0005	8.2E-05 (J)	6.1E-05 (J)
9/26/2018	<0.0005	<0.0005					
2/26/2019			0.00016 (J)				
3/4/2019	<0.0005	<0.0005					
3/5/2019				9.1E-05 (J)		7.9E-05 (J)	0.00011 (J)
3/6/2019					<0.0005		
3/29/2019			0.00017 (J)				
4/2/2019				9E-05 (J)			
4/3/2019	<0.0005	<0.0005			<0.0005	7.5E-05 (J)	6.4E-05 (J)
9/24/2019	<0.0005	<0.0005					
9/25/2019			0.00018 (J)	8.1E-05 (J)			<0.0005
9/26/2019					<0.0005	8.4E-05 (J)	
2/11/2020				7.8E-05 (J)	<0.0005	7.6E-05 (J)	
2/12/2020	<0.0005	<0.0005	0.00019 (J)				7.8E-05 (J)
3/18/2020			0.00021 (J)				
3/24/2020	<0.0005	<0.0005		8E-05 (J)	<0.0005	8.9E-05 (J)	7.6E-05 (J)
9/22/2020	<0.0005	<0.0005					
9/23/2020				8.1E-05 (J)	<0.0005	8.8E-05 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
9/24/2020							8.3E-05 (J)
9/25/2020			0.00018 (J)				
2/8/2021	<0.0005	<0.0005					
2/9/2021				9.4E-05 (J)	<0.0005	9.8E-05 (J)	6.8E-05 (J)
2/10/2021			0.00019 (J)				
3/2/2021	<0.0005	<0.0005	0.00018 (J)				
3/3/2021				9.9E-05 (J)	<0.0005	0.00011 (J)	6.8E-05 (J)
8/19/2021			0.00022 (J)				
8/26/2021	<0.0005	<0.0005				9.3E-05 (J)	
8/27/2021				0.0001 (J)	<0.0005		5.9E-05 (J)
2/9/2022				0.00011 (J)	<0.0005	8.9E-05 (J)	7.7E-05 (J)
2/10/2022	<0.0005	<0.0005	0.00025 (J)				
8/30/2022	<0.0005	<0.0005		0.0001 (J)	<0.0005	8.2E-05 (J)	
8/31/2022			0.0002 (J)				<0.0005
2/7/2023	<0.0005			9.6E-05 (J)	<0.0005	7.1E-05 (J)	7.4E-05 (J)
2/8/2023			0.00022 (J)				
2/9/2023		<0.0005					
8/15/2023	<0.0005	<0.0005	0.00018 (J)	<0.0005	<0.0005	5.7E-05 (J)	<0.0005
2/20/2024	<0.0005	<0.0005		0.0001 (J)	<0.0005		<0.0005
2/23/2024			0.00024 (J)			<0.0005	
8/20/2024	<0.0005	<0.0005	0.00021 (J)	0.0001 (J)	<0.0005		<0.0005
8/21/2024						<0.0005	
2/25/2025	<0.0005	<0.0005	0.0002 (J)	<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 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWC-26I	YGWC-26S
6/2/2016		<0.0005					
6/7/2016	<0.0005						
6/8/2016						<0.0005	<0.0005
7/25/2016		<0.0005					
7/28/2016	<0.0005						
8/1/2016						<0.0005	0.0002 (J)
8/30/2016					<0.0005		
9/19/2016	<0.0005	<0.0005					
9/20/2016						<0.0005	0.0001 (J)
11/1/2016		<0.0005					
11/3/2016	<0.0005						
11/7/2016						<0.0005	0.0001 (J)
11/14/2016					<0.0005		
1/13/2017	<0.0005						
1/16/2017		<0.0005					
1/18/2017						<0.0005	0.0002 (J)
2/21/2017		<0.0005				<0.0005	0.0002 (J)
2/24/2017					<0.0005		
3/6/2017	<0.0005						
4/26/2017	<0.0005	<0.0005					
5/3/2017							0.0002 (J)
5/8/2017					7E-05 (J)	<0.0005	
6/29/2017	<0.0005						
6/30/2017		<0.0005					
7/10/2017						<0.0005	0.0002 (J)
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				
2/19/2018				<0.0025			
2/20/2018			<0.0005				
3/27/2018		<0.0005					
3/29/2018	<0.0005						
3/30/2018						<0.0005	<0.0005
4/2/2018					<0.0005		
4/3/2018			<0.0005	<0.0025			
6/5/2018	<0.0005						
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	<0.0005						
2/26/2019		7.2E-05 (J)					
2/27/2019						<0.0005	0.00018 (J)
3/5/2019	<0.0005						
4/1/2019		<0.0005					
4/2/2019	<0.0005					<0.0005	0.00015 (J)
8/20/2019					<0.0005		
8/21/2019			<0.0005	0.0002 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWC-26I	YGWC-26S
9/24/2019	<0.0005						
9/25/2019		<0.0005				<0.0005	0.00011 (J)
10/9/2019			<0.0005	0.0002 (J)			
2/12/2020	<0.0005	<0.0005	<0.0005	0.00018 (J)			
2/13/2020						<0.0005	0.00015 (J)
3/19/2020		<0.0005					0.00012 (J)
3/20/2020						<0.0005	
3/24/2020	<0.0005			0.00022 (J)			
3/25/2020			<0.0005				
8/27/2020					4.7E-05 (J)		
9/22/2020					<0.0005		
9/24/2020	<0.0005	<0.0005	<0.0005	0.0002 (J)		<0.0005	8.5E-05 (J)
2/9/2021	<0.0005						
2/10/2021			5.1E-05 (J)	0.00021 (J)		<0.0005	0.00013 (J)
2/11/2021		4.7E-05 (J)					
3/1/2021		<0.0005			5.5E-05 (J)		
3/2/2021							0.00016 (J)
3/3/2021						<0.0005	
3/4/2021	<0.0005		<0.0005	0.00021 (J)			
8/19/2021		<0.0005			<0.0005		8.2E-05 (J)
8/20/2021						<0.0005	
8/26/2021			<0.0005				
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	<0.0005						
2/10/2022						<0.0005	9.3E-05 (J)
2/11/2022		<0.0005					
8/30/2022	<0.0005						
8/31/2022		<0.0005	<0.0005	0.00025 (J)	<0.0005	<0.0005	7.4E-05 (J)
2/7/2023	<0.0005		<0.0005				
2/8/2023		<0.0005		0.00026 (J)	<0.0005		
2/9/2023						<0.0005	6.8E-05 (J)
8/15/2023	<0.0005		<0.0005	<0.0025	<0.0005		
8/16/2023		<0.0005					
8/17/2023						<0.0005	<0.0005
2/20/2024	<0.0005	<0.0005	<0.0005	0.00025 (J)	<0.0005		
2/22/2024						<0.0005	<0.0005
8/20/2024	<0.0005	<0.0005			<0.0005		
8/21/2024			<0.0005	0.00023 (J)		<0.0005	<0.0005
2/25/2025	<0.0005	<0.0005	<0.0005	0.00018 (J)	<0.0005		
2/27/2025						<0.0005	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
6/8/2016	<0.0005	<0.0005			
6/9/2016			<0.0005	<0.0005	<0.0005
8/1/2016	<0.0005	<0.0005			
8/2/2016			<0.0005	<0.0005	<0.0005
9/20/2016	9E-05 (J)	<0.0005			
9/21/2016			<0.0005	<0.0005	<0.0005
11/7/2016	0.0001 (J)	<0.0005		<0.0005	<0.0005
11/8/2016			<0.0005		
1/18/2017	0.0002 (J)		<0.0005	<0.0005	
1/19/2017		<0.0005			<0.0005
2/21/2017				<0.0005	
2/22/2017		<0.0005	<0.0005		<0.0005
2/23/2017	0.0002 (J)				
5/5/2017			<0.0005	<0.0005	
5/8/2017	0.0002 (J)	<0.0005			<0.0005
6/30/2017	0.0002 (J)	<0.0005			
7/5/2017			<0.0005		<0.0005
7/7/2017				<0.0005	
3/29/2018	<0.0005	<0.0005			<0.0005
3/30/2018			<0.0005	<0.0005	
2/27/2019	0.00022 (J)	<0.0005	<0.0005	<0.0005	<0.0005
4/1/2019	0.00022 (J)	<0.0005	<0.0005		<0.0005
4/2/2019				<0.0005	
9/25/2019					<0.0005
9/26/2019	0.0002 (J)	<0.0005	<0.0005	<0.0005	
2/13/2020	0.00021 (J)	<0.0005	<0.0005	<0.0005	<0.0005
3/19/2020			<0.0005	<0.0005	
3/20/2020	0.00023 (J)	<0.0005			<0.0005
9/24/2020	0.00019 (J)	<0.0005	<0.0005	<0.0005	<0.0005
2/10/2021	0.00014 (J)	6.6E-05 (J)			
2/11/2021			<0.0005		
2/12/2021				<0.0005	<0.0005
3/3/2021	0.00013 (J)	<0.0005	<0.0005	<0.0005	<0.0005
8/20/2021	8.6E-05 (J)	0.00011 (J)	<0.0005	<0.0005	<0.0005
2/8/2022		<0.0005	<0.0005	<0.0005	<0.0005
2/10/2022	0.00013 (J)				
9/1/2022	0.00012 (J)	<0.0005	<0.0005	<0.0005	<0.0005
2/8/2023					<0.0005
2/9/2023	0.0001 (J)	<0.0005	<0.0005	<0.0005	
8/2/2023					<0.0005
8/16/2023			<0.0005	<0.0005	
8/17/2023	9.5E-05 (J)	<0.0005			
2/21/2024	0.00011 (J)	<0.0005	<0.0005	<0.0005	
2/22/2024					<0.0005
8/21/2024	<0.0005				
8/22/2024		<0.0005	<0.0005	<0.0005	<0.0005
2/26/2025	<0.0005		<0.0005	<0.0005	<0.0005
2/27/2025		<0.0005			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)
6/1/2016		<0.04	<0.04			<0.04	
6/2/2016					<0.04		<0.04
7/25/2016			<0.04			<0.04	
7/26/2016		0.0055 (J)			0.0097 (J)		0.0047 (J)
8/31/2016	0.0315 (J)						
9/13/2016		<0.04	<0.04				
9/14/2016				<0.04		<0.04	<0.04
9/15/2016					0.0102 (J)		
11/1/2016		0.0086 (J)			<0.04	<0.04	
11/2/2016							<0.04
11/4/2016			<0.04	<0.04			
11/28/2016	0.0095 (J)						
12/15/2016				0.0107 (J)			
1/11/2017		0.0074 (J)			<0.04	<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
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
5/8/2017	0.0084 (J)						
5/26/2017				<0.04			
6/27/2017		0.0087 (J)	0.006 (J)				
6/28/2017				<0.04	<0.04	<0.04	
6/29/2017							<0.04
7/17/2017	0.0092 (J)						
10/3/2017		0.0072 (J)	0.0071 (J)	<0.04			
10/4/2017					<0.04	<0.04	
10/5/2017							<0.04
10/16/2017	<0.2						
2/19/2018	<0.2						
6/5/2018		0.0052 (J)					
6/6/2018			<0.04				
6/7/2018				<0.04	0.004 (J)		0.0045 (J)
6/8/2018						<0.04	
8/6/2018	<0.2						
9/26/2018							0.005 (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)			
4/1/2019					<0.04	<0.04	
4/3/2019							0.0055 (J)
6/12/2019	<0.2						
9/24/2019		0.0064 (J)	0.0055 (J)	0.0076 (J)			
9/25/2019					0.0054 (J)	<0.04	<0.04
10/8/2019	<0.2						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)
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)	
3/25/2020							0.011 (J)
9/22/2020	0.0079 (J)						<0.04
9/23/2020		<0.04	<0.04	<0.04	0.012 (J)	0.0073 (J)	
3/2/2021	<0.2						
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
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	
2/11/2022							<0.04
8/30/2022	<0.2	<0.04		<0.04			
8/31/2022			<0.04		<0.04	<0.04	<0.04
2/7/2023	<0.2	<0.04	<0.04	<0.04			
2/8/2023					<0.04	<0.04	
2/9/2023							<0.04
8/15/2023	<0.2	<0.04	0.0094 (J)	<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
8/20/2024		<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

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/2/2016	<0.04	<0.04	<0.05				
6/6/2016					<0.04	<0.04	
6/7/2016				0.036 (J)			<0.04
7/26/2016	0.0052 (J)	<0.04	0.0177 (J)				
7/27/2016				0.008 (J)	<0.04	0.0059 (J)	<0.04
9/14/2016	0.0071 (J)	0.01 (J)					
9/15/2016			0.0214 (J)				
9/16/2016				0.0086 (J)		0.0079 (J)	
9/19/2016					<0.04		<0.04
11/2/2016	<0.04		0.0151 (J)				<0.04
11/3/2016				0.0077 (J)	<0.04	0.0082 (J)	
11/4/2016		<0.04					
1/10/2017			0.0198 (J)				
1/11/2017				0.0092 (J)	<0.04	0.0096 (J)	
1/12/2017	0.0076 (J)	<0.04					
1/13/2017							<0.04
3/1/2017					<0.04	0.0098 (J)	
3/2/2017				0.0095 (J)			
3/6/2017							<0.04
3/7/2017	0.0089 (J)	<0.04					
3/8/2017			0.0189 (J)				
4/26/2017			0.0161 (J)		<0.04	0.0091 (J)	<0.04
5/1/2017	0.0061 (J)						
5/2/2017		<0.04		<0.04			
6/27/2017	0.0079 (J)	<0.04					
6/28/2017					<0.04	0.0079 (J)	
6/29/2017				0.0074 (J)			<0.04
6/30/2017			0.0173 (J)				
10/3/2017	0.0094 (J)	<0.04					
10/4/2017				0.0077 (J)		0.009 (J)	<0.04
10/5/2017			0.0173 (J)		<0.04		
6/6/2018	0.0098 (J)						0.0049 (J)
6/7/2018		<0.04			<0.04		
6/8/2018			0.013 (J)				
6/11/2018				0.01 (J)		0.0093 (J)	
9/25/2018				0.0096 (J)	0.0046 (J)	0.007 (J)	<0.04
9/26/2018	0.01 (J)	0.0057 (J)					
10/1/2018			0.015 (J)				
3/29/2019			0.014 (J)				
4/2/2019				0.0066 (J)			
4/3/2019	0.0076 (J)	0.0044 (J)			<0.04	0.0053 (J)	<0.04
9/24/2019	0.01 (J)	0.0049 (J)					
9/25/2019			0.018 (J)	0.0081 (J)			<0.04
9/26/2019					0.0062 (J)	0.0072 (J)	
3/18/2020			0.02 (J)				
3/24/2020	0.011 (J)	0.0068 (J)		0.0092 (J)	0.0054 (J)	0.01 (J)	<0.04
9/22/2020	0.0079 (J)	0.0053 (J)					
9/23/2020				0.0066 (J)	0.021 (J)	0.006 (J)	
9/24/2020							0.0094 (J)
9/25/2020			0.02 (J)				
3/2/2021	0.0068 (J)	0.011 (J)	0.017 (J)				
3/3/2021				0.01 (J)	<0.04	0.0094 (J)	<0.04

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
8/19/2021			0.018 (J)				
8/26/2021	0.009 (J)	<0.04				<0.04	
8/27/2021				0.011 (J)	<0.04		<0.04
2/9/2022				0.0098 (J)	<0.04	<0.04	<0.04
2/10/2022	0.011 (J)	<0.04	0.02 (J)				
8/30/2022	0.0098 (J)	<0.04		0.013 (J)	<0.04	0.014 (J)	
8/31/2022			0.015 (J)				<0.04
2/7/2023	<0.04			0.014 (J)	<0.04	<0.04	<0.04
2/8/2023			0.015 (J)				
2/9/2023		<0.04					
8/15/2023	<0.04	<0.04	0.017 (J)	<0.04	<0.04	<0.04	<0.04
2/20/2024	<0.04	<0.04		<0.04	<0.04		<0.04
2/23/2024			0.037 (J)			0.018 (J)	
8/20/2024	<0.04	<0.04	0.014 (J)	<0.04	<0.04		<0.04
8/21/2024						<0.04	
2/25/2025	0.0078 (J)	<0.04	0.018 (J)	0.0093 (J)	<0.04	<0.04	<0.04

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWC-26I	YGWC-26S
6/2/2016		<0.04					
6/7/2016	<0.04						
6/8/2016						0.97	0.62
7/25/2016		<0.04					
7/28/2016	0.0096 (J)						
8/1/2016						0.932	0.643
8/30/2016					0.0166 (J)		
9/19/2016	<0.04	<0.04					
9/20/2016						1.04	0.644
11/1/2016		<0.04					
11/3/2016	<0.04						
11/7/2016						0.852	0.621
11/14/2016					0.0166 (J)		
1/13/2017	<0.04						
1/16/2017		<0.04					
1/18/2017						0.972	0.607
2/21/2017		<0.04				0.972	0.624
2/24/2017					0.0145 (J)		
3/6/2017	<0.04						
4/26/2017	<0.04	<0.04					
5/3/2017							0.676
5/8/2017					0.0141 (J)	1.05	
6/29/2017	<0.04						
6/30/2017		<0.04					
7/10/2017						0.855	0.58
7/11/2017					0.0131 (J)		
10/3/2017	<0.04						
10/4/2017		<0.04					
10/10/2017					0.0124 (J)	0.887	0.612
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)				
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)						
6/11/2018		0.014 (J)					
6/13/2018						0.86	0.67
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	0.0054 (J)						
10/2/2018		<0.04				0.93	0.62
3/26/2019				0.096			
3/27/2019			0.017 (J)		0.013 (J)		
4/1/2019		<0.04					
4/2/2019	0.011 (J)					0.9	0.63
9/24/2019	0.018 (J)						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWC-26I	YGWC-26S
9/25/2019		<0.04				0.86	0.63
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)					0.73
3/20/2020						0.94	
3/24/2020	0.016 (J)			0.088 (J)			
3/25/2020			0.043 (J)				
9/22/2020					0.0076 (J)		
9/24/2020	0.013 (J)	0.0075 (J)	0.037 (J)	0.087 (J)		0.76	0.74
3/1/2021		<0.04			0.013 (J)		
3/2/2021							0.57
3/3/2021						0.69	
3/4/2021	0.0079 (J)		0.033 (J)	0.078			
8/19/2021		<0.04			0.011 (J)		0.71
8/20/2021						0.72	
8/26/2021			0.095				
9/1/2021	<0.04						
9/3/2021				0.077			
2/8/2022			0.13	0.074	0.015 (J)		
2/9/2022	<0.04						
2/10/2022						0.79	0.79
2/11/2022		<0.04					
8/30/2022	0.012 (J)						
8/31/2022		<0.04	0.14	0.062	0.0091 (J)	0.64	0.7
2/7/2023	<0.04		0.13				
2/8/2023		<0.04		0.057	0.011 (J)		
2/9/2023						0.75	0.74
8/15/2023	0.046 (J)		0.15 (J)	0.052 (J)	<0.04		
8/16/2023		<0.04					
8/17/2023						0.73	0.72
2/20/2024	<0.04	<0.04	0.12	0.056	0.023 (J)		
2/22/2024						0.77	0.78
8/20/2024	<0.04	<0.04			<0.04		
8/21/2024			0.13	0.061		0.59	0.68
2/25/2025	0.0066 (J)	<0.04	0.13	0.061	0.014 (J)		
2/27/2025						0.75	0.78

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
6/8/2016	2.2	1.3			
6/9/2016			2.2	2.3	0.88
8/1/2016	2	1.36			
8/2/2016			2.22	2.21	0.872
9/20/2016	2.02	1.69			
9/21/2016			2.65	2.54	0.853
11/7/2016	1.91	1.35		2.49	0.815
11/8/2016			2.44		
1/18/2017	1.69		1.88	2.04	
1/19/2017		1.15			0.803
2/21/2017				2.29	
2/22/2017		1.3	2.05		0.855
2/23/2017	1.76				
5/5/2017			3.01	3.41	
5/8/2017	2	1.51			0.884
6/30/2017	2.28	1.47			
7/5/2017			2.7		0.811
7/7/2017				3.01	
10/5/2017			2.53		0.851
10/6/2017		1.31			
10/9/2017	1.82			2.76	
6/11/2018					0.9
6/12/2018		1.6	2.8	2.9	
6/13/2018	2.2				
10/2/2018	1.9	1.4			0.81
10/3/2018			2.3	2.4	
4/1/2019	2.4	1.4	2.7		0.85
4/2/2019				2.9	
9/25/2019					0.73
9/26/2019	1.9	1.5	2.8	2.5	
3/19/2020			2.4	2.5	
3/20/2020	2.1	1.4			0.8
9/24/2020	2.3	1.3	2.1	2.6	0.84
3/3/2021	2	1.2	1.8	2.3	0.62
8/20/2021	2.5	1.2	2.3	2.5	0.66
2/8/2022		1.1	2.4	2.4	0.71
2/10/2022	2.5				
9/1/2022	2.3	1	1.8	2.2	0.71
2/8/2023					0.9
2/9/2023	2.2	1	1.8	2.3	
8/2/2023					0.75
8/16/2023			1.7	2.1	
8/17/2023	2.1	0.95			
2/21/2024	1.8	0.91	1.6	2.3	
2/22/2024					1.1
8/21/2024	1.9				
8/22/2024		0.92	1.8	2.1	0.82
2/26/2025	2.1		1.9	2.5	0.92
2/27/2025		0.94			

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (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
7/21/2016	<0.0005						
7/25/2016			<0.0005			<0.0005	
7/26/2016		<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
9/15/2016					<0.0005		
11/1/2016		<0.0005			<0.0005	<0.0005	
11/2/2016							<0.0005
11/4/2016			<0.0005	<0.0005			
11/28/2016	<0.0005						
12/15/2016				<0.0005			
1/11/2017		0.0002 (J)			0.0001 (J)	8E-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
4/26/2017					<0.0005	<0.0005	
4/27/2017		<0.0005	<0.0005				
4/28/2017				<0.0005			
5/1/2017							<0.0005
5/8/2017	<0.0005						
5/26/2017				<0.0005			
6/27/2017		<0.0005	<0.0005				
6/28/2017				<0.0005	<0.0005	<0.0005	
6/29/2017							<0.0005
7/17/2017	<0.0005						
10/16/2017	<0.0005						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)
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
6/7/2018							<0.0005
8/6/2018	<0.0005						
9/26/2018							<0.0005
2/25/2019	<0.0005						
2/27/2019		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
3/4/2019							<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
6/12/2019	<0.0005						
8/19/2019	<0.0005						
9/24/2019		<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
3/17/2020	<0.0005						
3/18/2020			<0.0005				
3/19/2020		<0.0005		<0.0005	<0.0005	<0.0005	
3/25/2020							<0.0005
8/26/2020	<0.0005						
9/22/2020	<0.0005						<0.0005
9/23/2020		<0.0005	<0.0005	<0.0005	<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						
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
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	
2/11/2022							<0.0005
8/30/2022	<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			
2/8/2023					<0.0005	0.00013 (J)	
2/9/2023							<0.0005
8/15/2023	<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
8/20/2024		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00019 (J)
2/25/2025		<0.0005	<0.0005	<0.0005	0.00051	0.00046 (J)	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/2/2016	<0.0005	<0.0005	<0.0005				
6/6/2016					<0.0005	<0.0005	
6/7/2016				<0.0005			<0.0005
7/26/2016	<0.0005	<0.0005	<0.0005				
7/27/2016				<0.0005	<0.0005	<0.0005	<0.0005
9/14/2016	<0.0005	<0.0005					
9/15/2016			<0.0005				
9/16/2016				<0.0005		<0.0005	
9/19/2016					<0.0005		<0.0005
11/2/2016	<0.0005		<0.0005				<0.0005
11/3/2016				<0.0005	<0.0005	<0.0005	
11/4/2016		<0.0005					
1/10/2017			<0.0005				
1/11/2017				0.0001 (J)	<0.0005	0.0001 (J)	
1/12/2017	<0.0005	9E-05 (J)					
1/13/2017							<0.0005
3/1/2017					<0.0005	<0.0005	
3/2/2017				<0.0005			
3/6/2017							<0.0005
3/7/2017	<0.0005	<0.0005					
3/8/2017			7E-05 (J)				
4/26/2017			<0.0005		<0.0005	<0.0005	<0.0005
5/1/2017	<0.0005						
5/2/2017		<0.0005		<0.0005			
6/27/2017	<0.0005	<0.0005					
6/28/2017					<0.0005	<0.0005	
6/29/2017				<0.0005			<0.0005
6/30/2017			<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
6/6/2018	<0.0005						<0.0005
6/7/2018		<0.0005			<0.0005		
6/11/2018				<0.0005		<0.0005	
9/25/2018				<0.0005	<0.0005	<0.0005	<0.0005
9/26/2018	<0.0005	<0.0005					
2/26/2019			<0.0005				
3/4/2019	<0.0005	<0.0005					
3/5/2019				<0.0005		<0.0005	<0.0005
3/6/2019					<0.0005		
3/29/2019			<0.0005				
4/2/2019				<0.0005			
4/3/2019	<0.0005	<0.0005			<0.0005	<0.0005	<0.0005
9/24/2019	<0.0005	<0.0005					
9/25/2019			<0.0005	<0.0005			<0.0005
9/26/2019					<0.0005	<0.0005	
2/11/2020				<0.0005	<0.0005	<0.0005	
2/12/2020	<0.0005	<0.0005	<0.0005				<0.0005
3/18/2020			<0.0005				
3/24/2020	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005
9/22/2020	<0.0005	<0.0005					
9/23/2020				<0.0005	<0.0005	<0.0005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
9/24/2020							<0.0005
9/25/2020			<0.0005				
2/8/2021	<0.0005	<0.0005					
2/9/2021				<0.0005	<0.0005	<0.0005	<0.0005
2/10/2021			<0.0005				
3/2/2021	<0.0005	<0.0005	<0.0005				
3/3/2021				<0.0005	<0.0005	<0.0005	<0.0005
8/19/2021			<0.0005				
8/26/2021	<0.0005	<0.0005				<0.0005	
8/27/2021				<0.0005	<0.0005		<0.0005
2/9/2022				<0.0005	<0.0005	<0.0005	<0.0005
2/10/2022	<0.0005	<0.0005	<0.0005				
8/30/2022	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	
8/31/2022			<0.0005				<0.0005
2/7/2023	<0.0005			<0.0005	<0.0005	<0.0005	<0.0005
2/8/2023			<0.0005				
2/9/2023		<0.0005					
8/15/2023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2/20/2024	<0.0005	<0.0005		<0.0005	<0.0005		<0.0005
2/23/2024			<0.0005			<0.0005	
8/20/2024	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
8/21/2024						<0.0005	
2/25/2025	<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: Cadmium (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWC-26I	YGWC-26S
6/2/2016		<0.0005					
6/7/2016	<0.0005						
6/8/2016						<0.0005	<0.0005
7/25/2016		<0.0005					
7/28/2016	<0.0005						
8/1/2016						<0.0005	<0.0005
8/30/2016					0.0001 (J)		
9/19/2016	<0.0005	<0.0005					
9/20/2016						<0.0005	<0.0005
11/1/2016		<0.0005					
11/3/2016	<0.0005						
11/7/2016						<0.0005	<0.0005
11/14/2016					0.0001 (J)		
1/13/2017	<0.0005						
1/16/2017		<0.0005					
1/18/2017						<0.0005	<0.0005
2/21/2017		<0.0005				<0.0005	<0.0005
2/24/2017					9E-05 (J)		
3/6/2017	<0.0005						
4/26/2017	<0.0005	<0.0005					
5/3/2017							<0.0005
5/8/2017					0.0001 (J)	<0.0005	
6/29/2017	<0.0005						
6/30/2017		<0.0005					
7/10/2017						<0.0005	<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				
2/19/2018				<0.0005			
2/20/2018			<0.0005				
3/27/2018		<0.0005					
3/29/2018	<0.0005						
3/30/2018						<0.0005	<0.0005
4/2/2018					<0.0005		
4/3/2018			<0.0005	<0.0005			
6/5/2018	<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	9.6E-05 (J)						
2/26/2019		<0.0005					
2/27/2019						<0.0005	<0.0005
3/5/2019	<0.0005						
4/1/2019		<0.0005					
4/2/2019	<0.0005					<0.0005	<0.0005
8/20/2019					<0.0005		
8/21/2019			<0.0005	<0.0005			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWC-26I	YGWC-26S
9/24/2019	<0.0005						
9/25/2019		<0.0005				<0.0005	<0.0005
10/8/2019					<0.0005		
10/9/2019			<0.0005	<0.0005			
2/12/2020	<0.0005	<0.0005	<0.0005	<0.0005			
2/13/2020						<0.0005	<0.0005
3/17/2020					<0.0005		
3/19/2020		<0.0005					<0.0005
3/20/2020						<0.0005	
3/24/2020	<0.0005			<0.0005			
3/25/2020			<0.0005				
8/27/2020					<0.0005		
9/24/2020	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
2/9/2021	0.00041 (J)						
2/10/2021			0.00019 (J)	<0.0005		<0.0005	<0.0005
2/11/2021		<0.0005					
3/1/2021		<0.0005					
3/2/2021							<0.0005
3/3/2021						<0.0005	
3/4/2021	<0.0005		0.0003 (J)	<0.0005			
8/19/2021		<0.0005			<0.0005		<0.0005
8/20/2021						<0.0005	
8/26/2021			0.00049 (J)				
9/1/2021	<0.0005						
9/3/2021				<0.0005			
2/8/2022			0.00063	<0.0005	<0.0005		
2/9/2022	<0.0005						
2/10/2022						<0.0005	<0.0005
2/11/2022		<0.0005					
8/30/2022	<0.0005						
8/31/2022		<0.0005	0.00044 (J)	<0.0005	<0.0005	<0.0005	<0.0005
2/7/2023	0.00012 (J)		0.00014 (J)				
2/8/2023		<0.0005		<0.0005	0.00032 (J)		
2/9/2023						<0.0005	<0.0005
8/15/2023	<0.0005		<0.0005	<0.0005	<0.0005		
8/16/2023		<0.0005					
8/17/2023						<0.0005	<0.0005
2/20/2024	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
2/22/2024						<0.0005	<0.0005
8/20/2024	<0.0005	<0.0005			<0.0005		
8/21/2024			<0.0005	<0.0005		<0.0005	<0.0005
2/25/2025	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
2/27/2025						<0.0005	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
6/8/2016	<0.0005	<0.0005			
6/9/2016			0.00055 (J)	<0.0005	<0.0025
8/1/2016	<0.0005	<0.0005			
8/2/2016			0.0001 (J)	<0.0005	0.0001 (J)
9/20/2016	<0.0005	<0.0005			
9/21/2016			0.0001 (J)	<0.0005	0.0002 (J)
11/7/2016	<0.0005	<0.0005		<0.0005	0.0002 (J)
11/8/2016			9E-05 (J)		
1/18/2017	<0.0005		9E-05 (J)	<0.0005	
1/19/2017		<0.0005			0.0001 (J)
2/21/2017				<0.0005	
2/22/2017		<0.0005	0.0001 (J)		0.0001 (J)
2/23/2017	<0.0005				
5/5/2017			9E-05 (J)	<0.0005	
5/8/2017	<0.0005	<0.0005			0.0002 (J)
6/30/2017	<0.0005	<0.0005			
7/5/2017			0.0002 (J)		0.0002 (J)
7/7/2017				<0.0005	
3/29/2018	<0.0005	<0.0005			<0.0025
3/30/2018			<0.0005	<0.0005	
2/27/2019	<0.0005	<0.0005	0.00014 (J)	<0.0005	0.00026 (J)
4/1/2019	<0.0005	<0.0005	0.00043 (J)		0.00022 (J)
4/2/2019				<0.0005	
9/25/2019					0.00024 (J)
9/26/2019	<0.0005	<0.0005	<0.0005	<0.0005	
2/13/2020	<0.0005	<0.0005	0.00013 (J)	<0.0005	0.00018 (J)
3/19/2020			0.00016 (J)	<0.0005	
3/20/2020	<0.0005	<0.0005			0.00022 (J)
9/24/2020	<0.0005	<0.0005	0.00027 (J)	<0.0005	0.00033 (J)
2/10/2021	<0.0005	<0.0005			
2/11/2021			0.00052 (J)		
2/12/2021				0.00048 (J)	<0.0025
3/3/2021	<0.0005	<0.0005	0.00014 (J)	<0.0005	0.00029 (J)
8/20/2021	<0.0005	<0.0005	0.00027 (J)	<0.0005	0.00027 (J)
2/8/2022		<0.0005	0.00033 (J)	<0.0005	0.00019 (J)
2/10/2022	<0.0005				
9/1/2022	<0.0005	<0.0005	0.00017 (J)	<0.0005	0.0002 (J)
2/8/2023					0.00028 (J)
2/9/2023	<0.0005	<0.0005	<0.0005	<0.0005	
8/2/2023					0.00016 (J)
8/16/2023			<0.0005	<0.0005	
8/17/2023	<0.0005	<0.0005			
2/21/2024	<0.0005	<0.0005	<0.0005	<0.0005	
2/22/2024					0.00012 (J)
8/21/2024	<0.0005				
8/22/2024		<0.0005	0.00016 (J)	<0.0005	0.00014 (J)
2/26/2025	<0.0005		0.00014 (J)	<0.0005	0.00013 (J)
2/27/2025		<0.0005			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)
6/1/2016		12	2.5			21	
6/2/2016					28		8.8
7/25/2016			2.16			20.3	
7/26/2016		11			24.5		7.69
8/31/2016	9.31						
9/13/2016		11.8	2.21				
9/14/2016				23.5		19.7	8.49
9/15/2016					27		
11/1/2016		11			25.6	18.4	
11/2/2016							7.83
11/4/2016			2.67	23.7			
11/28/2016	9.47						
12/15/2016				23.1			
1/11/2017		11.2			27.5	20.3	
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
4/26/2017					30.4	25.6	
4/27/2017		11.1	2.38				
4/28/2017				30.7			
5/1/2017							13.4
5/8/2017	14.2						
5/26/2017				26.2			
6/27/2017		13.8	2.36				
6/28/2017				26.1	29.8	23.9	
6/29/2017							8.81
7/17/2017	14.1						
10/3/2017		14	2.21	26.7			
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				
6/7/2018				25	29.1		8.2
6/8/2018						21.9 (J)	
8/6/2018	11.4 (J)						
9/26/2018							9.5 (J)
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)			
4/1/2019					30.1	20.4 (J)	
4/3/2019							8.4
6/12/2019	18.9						
9/24/2019		15.8	2.3	26.4			
9/25/2019					29.5	22.4	9.5
10/8/2019	28.3						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)
10/10/2019							9.9
3/17/2020	24.3						
3/18/2020			2.1				
3/19/2020		15		27.4	31.5	21.9	
3/25/2020							10.5
9/22/2020	31						9.6
9/23/2020		14.1	1.8	26.3	28.6	23.6	
3/2/2021	34.2						
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
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	
2/11/2022							7.5
8/30/2022	23.5	14.9		25.4			
8/31/2022			1.9		28.7	23.5	8.9
2/7/2023	22.3	15	2.2	25.6			
2/8/2023					28.9	23.3	
2/9/2023							9.6
8/15/2023	20.3	13.5	1.8	23.2	27.4		7.8
8/16/2023						24.9	
2/20/2024	22.8	15.3	2.2	28.2	30.7	23.7	9.9
8/20/2024		17.7	1.9	30.4	30	23.4	9.1
2/25/2025		16.4	1.8	27.3	27.9	21.2	8.1

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/2/2016	33	2.4	1.3				
6/6/2016					6.2	1.4	
6/7/2016				2.2			2.3
7/26/2016	32.3	2.12	1.24				
7/27/2016				2	4.73	1.19	2.08
9/14/2016	31	2.18					
9/15/2016			1.17				
9/16/2016				1.97		1.5	
9/19/2016					4.76		1.97
11/2/2016	30.9		1.23				2.13
11/3/2016				1.99	5.25	1.31	
11/4/2016		2.17 (J)					
1/10/2017			1.24				
1/11/2017				2.28	4.74	1.25	
1/12/2017	35.7	2.37					
1/13/2017							2.45
3/1/2017					5.37	1.26	
3/2/2017				2.15			
3/6/2017							2.48
3/7/2017	32.7	2.34					
3/8/2017			1.21				
4/26/2017			1.14		4.28	1.05	2.3
5/1/2017	37						
5/2/2017		2.17		1.95			
6/27/2017	36.5	2.13					
6/28/2017					4.95	1.06	
6/29/2017				2.02			2.54
6/30/2017			1.24				
10/3/2017	30.9	2.15					
10/4/2017				2.03		1.1	2.25
10/5/2017			1.11		5.28		
6/6/2018	26.2						2.3
6/7/2018		2.3			4.8		
6/8/2018			1.1				
6/11/2018				2.1		1.4	
9/25/2018				2.1	4.6	1	2.3
9/26/2018	25.8	2.3					
10/1/2018			0.99				
3/29/2019			1.1				
4/2/2019				2.5			
4/3/2019	24.7 (J)	2.8			5.3	1.2	2.9
9/24/2019	25.8	2.5					
9/25/2019			1.1	2.6			2.4
9/26/2019					5.075 (D)	1.085 (D)	
10/10/2019	24.2	2.4		2.4			2.6
3/18/2020			1.1				
3/24/2020	26.1	2.5		2.7	5.3	1	2.6
9/22/2020	27.2	2.6					
9/23/2020				2.6	5.2	0.91 (J)	
9/24/2020							2.6
9/25/2020			1.3				
3/2/2021	1.6	2.6	1.2				

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
3/3/2021				2.5	5.2	0.96 (J)	2.4
8/19/2021			1.2				
8/26/2021	25.2	2.5				0.98 (J)	
8/27/2021				2.7	5.1		2.4
2/9/2022				2.8	5.1	0.87 (J)	2.3
2/10/2022	24.8	2.5	1.3				
8/30/2022	24.8	2.5		3	5.7	0.77 (J)	
8/31/2022			1.3				2.4
2/7/2023	26.6			2.9	5.5	0.79 (J)	2.4
2/8/2023			1.5				
2/9/2023		2.8					
8/15/2023	25	2.6	1.3	2.9	5.1	0.8 (J)	2.2
2/20/2024	27.2	2.7		3.2	5.6		2.5
2/23/2024			1.6			0.84 (J)	
8/20/2024	29.1	3.2	1.3	3.5	5.9		2.8
8/21/2024						0.96 (J)	
2/25/2025	25.9	2.8	1.3	3	5.3	0.88 (J)	2.6

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWC-26I	YGWC-26S
6/2/2016		1.3					
6/7/2016	3.7						
6/8/2016						15	13
7/25/2016		1.17					
7/28/2016	3.15						
8/1/2016						14.5	12.2
8/30/2016					20.9		
9/19/2016	3.17	1.05					
9/20/2016						15.3	12.2
11/1/2016		1.14					
11/3/2016	3.4						
11/7/2016						13.8	12.1
11/14/2016					18.6		
1/13/2017	4.98						
1/16/2017		1.23					
1/18/2017						15.1	11.5
2/21/2017		1.25				14.6	11.7
2/24/2017					16.1		
3/6/2017	6.28						
4/26/2017	6.65	1.03					
5/3/2017							11.9
5/8/2017					14.6	15.2	
6/29/2017	6.04						
6/30/2017		1.13					
7/10/2017						17.4	12.7
7/11/2017					14.3		
10/3/2017	8.28						
10/4/2017		1.09					
10/10/2017					12.1	15.5	11.4
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				
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						
6/11/2018		1.1					
6/13/2018						15.5	12.5
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	10.4 (J)						
10/2/2018		1.1				14.7	12.4 (J)
3/26/2019				5.6			
3/27/2019			1.5		10.8 (J)		
4/1/2019		1.3					
4/2/2019	8.8					16.1 (J)	11.9 (J)
9/24/2019	7.7						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWC-26I	YGWC-26S
9/25/2019		1.1				15.6	11.6
10/8/2019					9.7		
10/9/2019			2.4 (D)	5.05 (D)			
10/10/2019	5.6						
3/17/2020					14.8		
3/19/2020		1.2					13
3/20/2020						17.1	
3/24/2020	6			4.8			
3/25/2020			2.7				
9/22/2020					10.1		
9/24/2020	7.8	1.1	3.7	4.4		16.9	11.3
3/1/2021		1.2			10.3		
3/2/2021							12.9
3/3/2021						16.1	
3/4/2021	8.7		8.2	4.6			
8/19/2021		1.2			9.6		11.5
8/20/2021						17.2	
8/26/2021			14.1				
9/1/2021	9.5						
9/3/2021				5.6			
2/8/2022			15.2	6	9.4		
2/9/2022	9.8						
2/10/2022						16.4	11.6
2/11/2022		1.5					
8/30/2022	7.3						
8/31/2022		1.3	16.3	6.2	9.6	16.4	10.8
2/7/2023	7.5		16.1				
2/8/2023		1.3		5.9	9.2		
2/9/2023						15.8	10.7
8/15/2023	6.1		17.2	5.3	9.6		
8/16/2023		1.4					
8/17/2023						15.6	10.8
2/20/2024	7	1.3	16.9	5.6	10.3		
2/22/2024						16.7	11
8/20/2024	6.9	1.4			10		
8/21/2024			19.7	6		16.7	11.6
2/25/2025	6	1.4	17.3	4.8	9.9		
2/27/2025						15.7	10.2

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
6/8/2016	25	44			
6/9/2016			36	26	12
8/1/2016	21.4	36.3			
8/2/2016			35.5	25.8	11.7
9/20/2016	26.3	39.5			
9/21/2016			33.2	24.9	11.1
11/7/2016	26.1	34.9		25.1	11.4
11/8/2016			33.8		
1/18/2017	25.6		33.4	26.1	
1/19/2017		37			12
2/21/2017				29	
2/22/2017		37.6	33.8		11.2
2/23/2017	28.2				
5/5/2017			33.5	28.1	
5/8/2017	27.2	35.7			11.2
6/30/2017	27.2	36.2			
7/5/2017			33.4		11.9
7/7/2017				28.6	
10/5/2017			36.4		12
10/6/2017		39.8			
10/9/2017	27.3			27.3	
6/11/2018					12.1
6/12/2018		36.2	33.4	26.4	
6/13/2018	29.4				
10/2/2018	29.2	39.1			11.7 (J)
10/3/2018			32.6	25.8	
4/1/2019	27.4	38	33.8		11.9 (J)
4/2/2019				25.7	
9/25/2019					10.7
9/26/2019	24.2	37.5	32	26.1	
3/19/2020			37.3	30.4	
3/20/2020	30.3	42.1			12.7
9/24/2020	27.9	38.6	34.3	30.8	12.4
3/3/2021	25.7	30.2	30.9	28.4	9.5
8/20/2021	25.7	29.9	33.1	27.8	10.2
2/8/2022		27.2	31.8	26.7	9.3
2/10/2022	27.4				
9/1/2022	28.2	21.3	26.3	33.1	11
2/8/2023					11.9
2/9/2023	26.9	20.1	27.7	33.1	
8/2/2023					11.8
8/16/2023			27.3	31.2	
8/17/2023	25.4	20.8			
2/21/2024	27.7	20.4	27.8	31	
2/22/2024					11.5
8/21/2024	26.9				
8/22/2024		21.3	28.8	30.4	11.2
2/26/2025	25.9		29.7	28.4	11.1
2/27/2025		20.7			

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)
6/1/2016		1.3	1.6			1.3	
6/2/2016					1.4		3.7
7/25/2016			1.4			1.3	
7/26/2016		1.2			1.6		3.6
8/31/2016	4						
9/13/2016		1.1	1.3				
9/14/2016				1.1		1.3	3.4
9/15/2016					1.5		
11/1/2016		1.3			1.7	1.4	
11/2/2016							4.5
11/4/2016			1.6	1.4			
11/28/2016	4.2						
12/15/2016				2.9			
1/11/2017		1.1			1.2	1.1	
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
4/26/2017					1.2	1.1	
4/27/2017		1	1.3				
4/28/2017				0.91			
5/1/2017							4.3
5/8/2017	4.2						
5/26/2017				0.93			
6/27/2017		1.1	1.4				
6/28/2017				1	1.3	1.2	
6/29/2017							4.2
7/17/2017	3.8						
10/3/2017		1.1	1.7	1.2			
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				
6/7/2018				1	1.2		4.4
6/8/2018						1.2	
8/6/2018	3.8						
9/26/2018							4.8
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			
4/1/2019					1.2	1.1	
4/3/2019							4.3
6/12/2019	4.7						
9/24/2019		1.1	1.3	0.95 (J)			
9/25/2019					1.1	1.1	4.5
10/8/2019	5.1						

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)
3/17/2020	4.8						
3/18/2020			1.4				
3/19/2020		1.1		0.97 (J)	1.2	1.1	
3/25/2020							3.9
9/22/2020	4.2						4.5
9/23/2020		0.99 (J)	1.2	0.88 (J)	1.1	1	
3/2/2021	4.1						
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
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	
2/11/2022							4.1
8/30/2022	6.3	1.3		1.2			
8/31/2022			1.5		1.3	1.3	4.4
2/7/2023	6.1	1.3	1.5	1.1			
2/8/2023					1.2	1.1	
2/9/2023							4.5
8/15/2023	5.6	1.1	1.4	0.93 (J)	1.1		4.4
8/16/2023						1.1	
2/20/2024	6.1	1	1.2	0.96 (J)	1.1	1.1	4.6
8/20/2024		1	1.3	0.91 (J)	1.1	1	5.2
2/25/2025		0.9 (J)	1.1	0.77 (J)	0.94 (J)	0.9 (J)	4.5

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/2/2016	7.2	4.3	4.1				
6/6/2016					6.8	6.4	
6/7/2016				4.5			1.9
7/26/2016	6.6	4.4	4				
7/27/2016				4.5	6.7	6.2	1.9
9/14/2016	6.6	3.8					
9/15/2016			4.2				
9/16/2016				4.5		6.1	
9/19/2016					7		1.9
11/2/2016	7.6		4.9				2.6
11/3/2016				5.4	7.5	7.4	
11/4/2016		4.8					
1/10/2017			4.1				
1/11/2017				4.7	6.5	6.1	
1/12/2017	6.8	3.8					
1/13/2017							2.3
3/1/2017					6.9	6	
3/2/2017				4.8			
3/6/2017							1.9
3/7/2017	6.8	4.5					
3/8/2017			4.2				
4/26/2017			4.1		7	6.5	2
5/1/2017	7.2						
5/2/2017		4.6		4.6			
6/27/2017	7	4.3					
6/28/2017					7	6.4	
6/29/2017				4.5			2.6
6/30/2017			3.7				
10/3/2017	6.5	4.2					
10/4/2017				4.7		6.8	2.6
10/5/2017			3.8		7		
6/6/2018	4.7						2.7
6/7/2018		4.5			6.8		
6/8/2018			3.4				
6/11/2018				4.9		6.8	
9/25/2018				5.6	7.9	7.8	3.6
9/26/2018	4.8	5.1					
10/1/2018			3.8				
3/29/2019			4.2				
4/2/2019				4.8			
4/3/2019	4	4.2			6.9	6.3	3.1
9/24/2019	3.7	4.5					
9/25/2019			4.8	5.7			2.8
9/26/2019					7	7.1	
10/10/2019	4.3	1.6		5.8			3.7
3/18/2020			5.2				
3/24/2020	3.5	4.3		5	7	6.8	2.7
9/22/2020	3.6	4.2					
9/23/2020				6.6	7.2	7.2	
9/24/2020							2.7
9/25/2020			5.3				
3/2/2021	3.2	4.3	4.9				

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
3/3/2021				7.1	7	7.2	2.7
8/19/2021			5				
8/26/2021	3.4	4.3				7.3	
8/27/2021				8.5	7.4		2.8
2/9/2022				10.9	7.5	7	2.8
2/10/2022	3.2	4.4	4.7				
8/30/2022	3.5	4.4		12	7.9	7	
8/31/2022			4.6				2.9
2/7/2023	3.3			11.4	7.4	6.4	2.9
2/8/2023			4.9				
2/9/2023		5					
8/15/2023	3.1	4.1	4.1	11.6	7.3	6.7	2.8
2/20/2024	3.2	4.8		12.2	7.6		2.9
2/23/2024			4.8			6.6	
8/20/2024	3.4	4.8	4.5	12.7	7.8		3
8/21/2024						7.4	
2/25/2025	2.8	4.4	4.1	11.4	7	6.5	2.6

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWC-26I	YGWC-26S
6/2/2016		1.9					
6/7/2016	2.8						
6/8/2016						19	18
7/25/2016		1.7					
7/28/2016	2.6						
8/1/2016						17	16
8/30/2016					5.2		
9/19/2016	2.4	1.6					
9/20/2016						18	18
11/1/2016		1.8					
11/3/2016	2.9						
11/7/2016						17	16
11/14/2016					6.4		
1/13/2017	2.5						
1/16/2017		1.7					
1/18/2017						19	17
2/21/2017		1.7				18	16
2/24/2017					5.5		
3/6/2017	2.1						
4/26/2017	2.1	1.7					
5/3/2017							17
5/8/2017					5.8	18	
6/29/2017	2.8						
6/30/2017		1.8					
7/10/2017						19	15
7/11/2017					5.8		
10/3/2017	2.2						
10/4/2017		1.8					
10/10/2017					5.9	19	15
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				
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						
6/11/2018		2					
6/13/2018						18.1	14.2
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	2.2						
10/2/2018		1.8				18.3	14
3/26/2019				4.4			
3/27/2019			1.4		4.3		
4/1/2019		1.7					
4/2/2019	2.5					17.9	13.5
9/24/2019	3.1						

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWC-26I	YGWC-26S
9/25/2019		1.6				17.1	14.4
10/8/2019					4.4		
10/9/2019			2.05 (D)	5.05 (D)			
10/10/2019	3.3						
3/17/2020					4.1		
3/19/2020		1.8					15.4
3/20/2020						17.7	
3/24/2020	2.8			4.7			
3/25/2020			1.9				
9/22/2020					4.2		
9/24/2020	2	1.5	2.7	5		17.1	15.7
3/1/2021		1.6			3.7		
3/2/2021							13.2
3/3/2021						16.6	
3/4/2021	1.8		4.9	4.9			
8/19/2021		1.6			3.5		13.5
8/20/2021						14.4	
8/26/2021			7.2				
9/1/2021	1.8						
9/3/2021				5.5			
2/8/2022			7.4	6.2	3.2		
2/9/2022	1.7						
2/10/2022						15.4	14
2/11/2022		2.1					
8/30/2022	2.4						
8/31/2022		1.8	6.7	6.3	3.5	16.6	15
2/7/2023	2.4		5.6				
2/8/2023		1.6		6.9	3.5		
2/9/2023						16.6	15.1
8/15/2023	2.3		4.5	5.6	3.5		
8/16/2023		1.5					
8/17/2023						15.7	14.4
2/20/2024	2.3	1.4	4.6	5.7	3.2		
2/22/2024						16	14.9
8/20/2024	2.3	1.4			3.6		
8/21/2024			4	5.4		15.8	15.2
2/25/2025	2	1.3	3.5	4.5	3		
2/27/2025						14.8	13.5

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
6/8/2016	14	22			
6/9/2016			18	19	15
8/1/2016	13	21			
8/2/2016			18	18	14
9/20/2016	13	22			
9/21/2016			18	19	14
11/7/2016	14	24		20	14
11/8/2016			18		
1/18/2017	14		18	20	
1/19/2017		22			14
2/21/2017				19	
2/22/2017		21	18		13
2/23/2017	14				
5/5/2017			19	21	
5/8/2017	14	22			15
6/30/2017	14	21			
7/5/2017			18		14
7/7/2017				20	
10/5/2017			19		15
10/6/2017		21			
10/9/2017	14			20	
6/11/2018					13.6
6/12/2018		19.8	17.6	19.3	
6/13/2018	13.1				
10/2/2018	13.8	19.9			13.4
10/3/2018			17.7	20.2	
4/1/2019	14.2	19.7	17.2		13.1
4/2/2019				19.5	
9/25/2019					11.3
9/26/2019	14.3	19.6	17.3	19.5	
3/19/2020			16	18.1	
3/20/2020	13	17.7			11.3
9/24/2020	13.3	17	15.1	18	10.9
3/3/2021	13	4	14.6	18	6.7
8/20/2021	13.7	15.2	15.2	18.1	6.8
2/8/2022		13	15.2	18.3	5.5
2/10/2022	13.1				
9/1/2022	13.4	10.4	10.4	16.5	8.1
2/8/2023					10.4
2/9/2023	13.9	11.5	11.5	18.1	
8/2/2023					9.5
8/16/2023			10.5	16.8	
8/17/2023	12.9	11.7			
2/21/2024	12.5	12.6	10.4	17.5	
2/22/2024					10.5
8/21/2024	12.2				
8/22/2024		13.9	10.9	18.2	10.5
2/26/2025	11.6		10.1	16.3	9.7
2/27/2025		11.8			

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (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
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
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		
11/1/2016		<0.005			<0.005	<0.005	
11/2/2016							<0.005
11/4/2016			<0.005	<0.005			
11/28/2016	<0.005						
12/15/2016				<0.005			
1/11/2017		<0.005			<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
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
5/8/2017	<0.005						
5/26/2017				<0.005			
6/27/2017		<0.005	<0.005				
6/28/2017				<0.005	<0.005	<0.005	
6/29/2017							<0.005
7/17/2017	<0.005						
10/16/2017	<0.005						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)
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
8/6/2018	<0.005						
2/25/2019	<0.005						
2/27/2019		<0.005	<0.005	<0.005	<0.005	<0.005	
3/4/2019							<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
3/17/2020	<0.005						
3/18/2020			0.00044 (J)				
3/19/2020		0.00084 (J)		0.00048 (J)	<0.005	<0.005	
3/25/2020							0.00058 (J)
8/26/2020	<0.005						
9/22/2020	<0.005						<0.005
9/23/2020		0.00062 (J)	0.00058 (J)	<0.005	<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						
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
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	
2/11/2022							<0.005
8/30/2022	<0.005	0.0011 (J)		<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			
2/8/2023					<0.005	<0.005	
2/9/2023							<0.005
8/15/2023	<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
8/20/2024		<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

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/2/2016	<0.005	<0.005	<0.005				
6/6/2016					0.0012 (J)	<0.005	
6/7/2016				<0.005			<0.005
7/26/2016	0.0006 (J)	0.0006 (J)	<0.005				
7/27/2016				0.0008 (J)	0.0007 (J)	0.0006 (J)	0.0005 (J)
9/14/2016	<0.005	<0.005					
9/15/2016			<0.005				
9/16/2016				<0.005		<0.005	
9/19/2016					<0.005		<0.005
11/2/2016	<0.005		<0.005				<0.005
11/3/2016				<0.005	<0.005	<0.005	
11/4/2016		<0.005					
1/10/2017			<0.005				
1/11/2017				<0.005	<0.005	<0.005	
1/12/2017	<0.005	<0.005					
1/13/2017							<0.005
3/1/2017					0.0012 (J)	<0.005	
3/2/2017				0.001 (J)			
3/6/2017							0.0005 (J)
3/7/2017	0.0012 (J)	0.0006 (J)					
3/8/2017			0.0005 (J)				
4/26/2017			<0.005		0.0005 (J)	0.0003 (J)	0.0007 (J)
5/1/2017	0.0004 (J)						
5/2/2017		<0.005		0.0007 (J)			
6/27/2017	<0.005	<0.005					
6/28/2017					0.0006 (J)	<0.005	
6/29/2017				0.0006 (J)			0.0005 (J)
6/30/2017			<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
2/26/2019			<0.005				
3/4/2019	<0.005	<0.005					
3/5/2019				<0.005		<0.005	<0.005
3/6/2019					<0.005		
3/29/2019			<0.005				
9/25/2019			<0.005				
2/11/2020				0.00087 (J)	0.001 (J)	0.00088 (J)	
2/12/2020	<0.005	0.00043 (J)	<0.005				0.00045 (J)
3/18/2020			<0.005				
3/24/2020	<0.005	0.0014 (J)		0.00087 (J)	0.00095 (J)	0.0011 (J)	0.00077 (J)
9/22/2020	0.0011 (J)	<0.005					
9/23/2020				0.00098 (J)	0.00092 (J)	0.0012 (J)	
9/24/2020							0.00076 (J)
9/25/2020			<0.005				
2/8/2021	<0.005	<0.005					
2/9/2021				0.00098 (J)	0.00083 (J)	0.0013 (J)	0.00056 (J)
2/10/2021			<0.005				
3/2/2021	<0.005	<0.005	<0.005				
3/3/2021				0.00082 (J)	0.00087 (J)	0.001 (J)	<0.005
8/19/2021			<0.005				
8/26/2021	<0.005	<0.005				<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
8/27/2021				<0.005	<0.005		<0.005
2/9/2022				<0.005	<0.005	0.0014 (J)	<0.005
2/10/2022	<0.005	<0.005	<0.005				
8/30/2022	<0.005	<0.005		<0.005	<0.005	0.0015 (J)	
8/31/2022			<0.005				<0.005
2/7/2023	<0.005			<0.005	<0.005	0.0016 (J)	<0.005
2/8/2023			<0.005				
2/9/2023		0.0012 (J)					
8/15/2023	<0.005	<0.005	<0.005	<0.005	<0.005	0.0013 (J)	<0.005
2/20/2024	<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
8/21/2024						<0.005	
2/25/2025	<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 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWC-26I	YGWC-26S
6/2/2016		<0.005					
6/7/2016	<0.005						
6/8/2016						<0.005	<0.005
7/25/2016		<0.005					
7/28/2016	<0.005						
8/1/2016						0.0008 (J)	0.0026 (J)
8/30/2016					<0.005		
9/19/2016	<0.005	<0.005					
9/20/2016						<0.005	0.001 (J)
11/1/2016		<0.005					
11/3/2016	<0.005						
11/7/2016						<0.005	0.0013 (J)
11/14/2016					0.0093 (J)		
1/13/2017	<0.005						
1/16/2017		<0.005					
1/18/2017						<0.005	0.002 (J)
2/21/2017		<0.005				<0.005	0.0019 (J)
2/24/2017					<0.005		
3/6/2017	0.0004 (J)						
4/26/2017	<0.005	0.0016 (J)					
5/3/2017							0.0037 (J)
5/8/2017					<0.005	0.0006 (J)	
6/29/2017	<0.005						
6/30/2017		<0.005					
7/10/2017						0.0005 (J)	0.0025 (J)
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				
2/19/2018				<0.005			
2/20/2018			<0.005				
3/27/2018		<0.005					
3/29/2018	<0.005						
3/30/2018						<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					
2/27/2019						0.0049 (J)	0.0055 (J)
3/5/2019	<0.005						
4/1/2019		<0.005					
4/2/2019						<0.005	0.003 (J)
8/20/2019					<0.005		
8/21/2019			<0.005	0.00053 (J)			
9/25/2019		<0.005				0.00048 (J)	0.0012 (J)
10/9/2019			<0.005	0.0012 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWC-26I	YGWC-26S
2/12/2020	<0.005	<0.005	<0.005	0.00065 (J)			
2/13/2020						0.00044 (J)	0.0012 (J)
3/19/2020		<0.005					0.0018 (J)
3/20/2020						0.0009 (J)	
3/24/2020	<0.005			0.00055 (J)			
3/25/2020			<0.005				
8/27/2020					<0.005		
9/22/2020					<0.005		
9/24/2020	<0.005	<0.005	<0.005	<0.005		0.00067 (J)	0.00068 (J)
2/9/2021	<0.005						
2/10/2021			<0.005	<0.005		0.00065 (J)	0.00091 (J)
2/11/2021		<0.005					
3/1/2021		<0.005			<0.005		
3/2/2021							0.001 (J)
3/3/2021						<0.005	
3/4/2021	<0.005		<0.005	<0.005			
8/19/2021		<0.005			<0.005		0.0012 (J)
8/20/2021						<0.005	
8/26/2021			<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						
2/10/2022						<0.005	<0.005
2/11/2022		<0.005					
8/30/2022	<0.005						
8/31/2022		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/7/2023	<0.005		<0.005				
2/8/2023		0.0021 (J)		<0.005	<0.005		
2/9/2023						<0.005	<0.005
8/15/2023	<0.005		<0.005	<0.005	<0.005		
8/16/2023		<0.005					
8/17/2023						<0.005	<0.005
2/20/2024	<0.005	<0.005	<0.005	<0.005	<0.005		
2/22/2024						<0.005	<0.005
8/20/2024	<0.005	<0.005			<0.005		
8/21/2024			<0.005	<0.005		<0.005	<0.005
2/25/2025	<0.005	<0.005	<0.005	<0.005	<0.005		
2/27/2025						<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
6/8/2016	<0.005	<0.005			
6/9/2016			<0.005	<0.005	<0.005
8/1/2016	<0.005	<0.005			
8/2/2016			0.0005 (J)	0.0005 (J)	0.0005 (J)
9/20/2016	<0.005	<0.005			
9/21/2016			<0.005	<0.005	<0.005
11/7/2016	<0.005	<0.005		<0.005	<0.005
11/8/2016			<0.005		
1/18/2017	<0.005		<0.005	<0.005	
1/19/2017		<0.005			<0.005
2/21/2017				<0.005	
2/22/2017		<0.005	<0.005		<0.005
2/23/2017	<0.005				
5/5/2017			<0.005	<0.005	
5/8/2017	<0.005	<0.005			<0.005
6/30/2017	<0.005	<0.005			
7/5/2017			<0.005		<0.005
7/7/2017				<0.005	
3/29/2018	<0.005	<0.005			<0.005
3/30/2018			<0.005	<0.005	
2/27/2019	<0.005	0.015	<0.005	<0.005	<0.005
4/1/2019	<0.005	<0.005	<0.005		<0.005
4/2/2019				<0.005	
9/25/2019					<0.005
9/26/2019	<0.005	<0.005	0.00044 (J)	<0.005	
2/13/2020	<0.005	<0.005	0.00047 (J)	<0.005	<0.005
3/19/2020			<0.005	0.00049 (J)	
3/20/2020	<0.005	0.0005 (J)			<0.005
9/24/2020	<0.005	0.00057 (J)	<0.005	0.0006 (J)	<0.005
2/10/2021	<0.005	0.0027 (J)			
2/11/2021			<0.005		
2/12/2021				<0.005	<0.005
3/3/2021	<0.005	0.00058 (J)	<0.005	<0.005	<0.005
8/20/2021	0.012	0.0041 (J)	<0.005	<0.005	<0.005
2/8/2022		<0.005	<0.005	<0.005	<0.005
2/10/2022	<0.005				
9/1/2022	<0.005	<0.005	<0.005	<0.005	<0.005
2/8/2023					<0.005
2/9/2023	<0.005	<0.005	<0.005	0.0034 (J)	
8/2/2023					<0.005
8/16/2023			<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
8/21/2024	<0.005				
8/22/2024		<0.005	<0.005	<0.005	<0.005
2/26/2025	<0.005		<0.005	<0.005	<0.005
2/27/2025		<0.005			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)
5/1/2007	0.0067						
9/12/2007	<0.01						
3/20/2008	<0.01						
8/27/2008	<0.01						
3/3/2009	<0.01						
11/18/2009	<0.01						
3/3/2010	0.0027						
9/8/2010	0.007						
3/10/2011	<0.01						
9/8/2011	<0.01						
3/5/2012	0.0032						
9/10/2012	<0.01						
2/6/2013	<0.01						
8/12/2013	0.0045						
2/5/2014	<0.01						
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)
7/21/2016	0.0011 (J)						
7/25/2016			0.0008 (J)			<0.005	
7/26/2016		<0.005			<0.005		0.0012 (J)
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		
11/1/2016		<0.005			<0.005	<0.005	
11/2/2016							<0.005
11/4/2016			0.0025 (J)	<0.005			
11/28/2016	0.0036 (J)						
12/15/2016				<0.005			
1/11/2017		<0.005			<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)
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
5/8/2017	0.0059 (J)						
5/26/2017				<0.005			
6/27/2017		<0.005	0.0023 (J)				
6/28/2017				<0.005	<0.005	<0.005	
6/29/2017							0.0005 (J)
7/17/2017	0.0046 (J)						
10/16/2017	0.0034 (J)						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)
2/19/2018	<0.01						
3/27/2018			<0.01				
3/28/2018				<0.005	<0.005	<0.005	
3/29/2018		<0.005					<0.005
6/5/2018		<0.005					
6/6/2018			<0.01				
6/7/2018				<0.005	<0.005		0.00058 (J)
6/8/2018						<0.005	
8/6/2018	0.003 (J)						
9/26/2018							<0.005
10/1/2018		<0.005	0.00059 (J)	<0.005	<0.005	<0.005	
2/25/2019	0.001 (J)						
2/27/2019		<0.005	0.00064 (J)	<0.005	<0.005	<0.005	
3/4/2019							<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)
6/12/2019	0.003 (J)						
8/19/2019	0.0035 (J)						
9/24/2019		<0.005	0.0013 (J)	<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
3/17/2020	0.003 (J)						
3/18/2020			0.00087 (J)				
3/19/2020		<0.005		<0.005	<0.005	<0.005	
3/25/2020							0.00056 (J)
8/26/2020	0.2 (O)						
9/22/2020	0.16 (O)						<0.005
9/23/2020		<0.005	0.0013 (J)	<0.005	<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)						
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)
8/27/2021				<0.005		<0.005	
2/8/2022	0.072 (O)						
2/9/2022		0.00072 (J)	0.0023 (J)	<0.005	<0.005	<0.005	
2/11/2022							<0.005
8/30/2022	0.075 (O)	<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			
2/8/2023					<0.005	<0.005	
2/9/2023							<0.005
8/15/2023	0.031	<0.005	0.00072 (J)	<0.005	<0.005		<0.005
8/16/2023						<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)
2/20/2024	0.023	0.00055 (J)	0.0018 (J)	<0.005	<0.005	<0.005	<0.005
8/20/2024		<0.005	0.00033 (J)	<0.005	<0.005	<0.005	<0.005
2/25/2025		<0.005	0.0014 (J)	<0.005	<0.005	<0.005	<0.005

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/2/2016	<0.005	<0.005	<0.005				
6/6/2016					<0.005	0.00061 (J)	
6/7/2016				<0.005			<0.005
7/26/2016	<0.005	<0.005	<0.005				
7/27/2016				<0.005	<0.005	0.0004 (J)	<0.005
9/14/2016	<0.005	<0.005					
9/15/2016			<0.005				
9/16/2016				<0.005		0.0008 (J)	
9/19/2016					<0.005		<0.005
11/2/2016	<0.005		<0.005				<0.005
11/3/2016				<0.005	<0.005	<0.005	
11/4/2016		<0.005					
1/10/2017			<0.005				
1/11/2017				<0.005	<0.005	<0.005	
1/12/2017	<0.005	<0.005					
1/13/2017							<0.005
3/1/2017					<0.005	<0.005	
3/2/2017				<0.005			
3/6/2017							<0.005
3/7/2017	<0.005	<0.005					
3/8/2017			<0.005				
4/26/2017			<0.005		<0.005	<0.005	<0.005
5/1/2017	<0.005						
5/2/2017		<0.005		<0.005			
6/27/2017	<0.005	<0.005					
6/28/2017					<0.005	<0.005	
6/29/2017				<0.005			<0.005
6/30/2017			<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
6/6/2018	<0.005						<0.005
6/7/2018		<0.005			<0.005		
6/8/2018			<0.005				
6/11/2018				<0.005		<0.005	
9/25/2018				<0.005	<0.005	<0.005	<0.005
9/26/2018	<0.005	<0.005					
10/1/2018			<0.005				
2/26/2019			<0.005				
3/4/2019	<0.005	<0.005					
3/5/2019				<0.005		<0.005	<0.005
3/6/2019					<0.005		
3/29/2019			<0.005				
4/2/2019				<0.005			
4/3/2019	<0.005	<0.005			<0.005	<0.005	<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	
2/11/2020				<0.005	<0.005	<0.005	
2/12/2020	0.00037 (J)	<0.005	<0.005				<0.005
3/18/2020			<0.005				
3/24/2020	0.00035 (J)	<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 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
9/22/2020	<0.005	<0.005					
9/23/2020				<0.005	<0.005	<0.005	
9/24/2020							<0.005
9/25/2020			<0.005				
2/8/2021	<0.005	<0.005					
2/9/2021				<0.005	<0.005	<0.005	<0.005
2/10/2021			<0.005				
3/2/2021	<0.005	<0.005	<0.005				
3/3/2021				<0.005	<0.005	<0.005	<0.005
8/19/2021			<0.005				
8/26/2021	<0.005	<0.005				<0.005	
8/27/2021				<0.005	<0.005		<0.005
2/9/2022				<0.005	<0.005	<0.005	<0.005
2/10/2022	<0.005	<0.005	<0.005				
8/30/2022	<0.005	<0.005		<0.005	<0.005	<0.005	
8/31/2022			<0.005				<0.005
2/7/2023	<0.005			<0.005	<0.005	<0.005	<0.005
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
2/20/2024	<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
8/21/2024						<0.005	
2/25/2025	<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: Cobalt (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWC-26I	YGWC-26S
6/2/2016		0.035					
6/7/2016	0.0056						
6/8/2016						<0.005	0.0032
7/25/2016		0.0312					
7/28/2016	0.0032 (J)						
8/1/2016						<0.005	0.003 (J)
8/30/2016					0.0073 (J)		
9/19/2016	0.0047 (J)	0.0275					
9/20/2016						<0.005	0.003 (J)
11/1/2016		0.0255					
11/3/2016	0.013						
11/7/2016						<0.005	0.0025 (J)
11/14/2016					0.0115		
1/13/2017	0.011						
1/16/2017		0.0245					
1/18/2017						<0.005	0.0022 (J)
2/21/2017		0.0272				<0.005	0.0022 (J)
2/24/2017					0.0106		
3/6/2017	0.011						
4/26/2017	0.009 (J)	0.0244					
5/3/2017							0.002 (J)
5/8/2017					0.0099 (J)	<0.005	
6/29/2017	0.0093 (J)						
6/30/2017		0.0233					
7/10/2017						<0.005	0.002 (J)
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				
2/19/2018				<0.005			
2/20/2018			<0.005				
3/27/2018		0.023					
3/29/2018	<0.01						
3/30/2018						<0.005	<0.005
4/2/2018					<0.005		
4/3/2018			<0.005	<0.005			
6/5/2018	0.0041 (J)						
6/11/2018		0.023					
6/13/2018						<0.005	0.0017 (J)
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	0.0044 (J)						
10/2/2018		0.022				<0.005	0.0016 (J)
2/26/2019		0.021					
2/27/2019						<0.005	0.0017 (J)
3/5/2019	0.0039 (J)						
4/1/2019		0.022					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWC-26I	YGWC-26S
4/2/2019	0.0039 (J)					<0.005	0.0022 (J)
8/20/2019					0.00092 (J)		
8/21/2019			0.00034 (J)	<0.005			
9/24/2019	0.0032 (J)						
9/25/2019		0.016				<0.005	0.0033 (J)
10/8/2019					0.0014 (J)		
10/9/2019			<0.005	<0.005			
2/12/2020	0.0081	0.014	0.00034 (J)	<0.005			
2/13/2020						<0.005	0.0019 (J)
3/17/2020					0.0017 (J)		
3/19/2020		0.014					0.0021 (J)
3/20/2020						<0.005	
3/24/2020	0.0061			<0.005			
3/25/2020			0.00034 (J)				
8/27/2020					0.0011 (J)		
9/22/2020					0.00097 (J)		
9/24/2020	0.0079	0.0064	0.00053 (J)	<0.005		<0.005	0.0011 (J)
2/9/2021	0.009						
2/10/2021			0.00098 (J)	<0.005		<0.005	0.0017 (J)
2/11/2021		0.0078					
3/1/2021		0.0061			0.001 (J)		
3/2/2021							0.0021 (J)
3/3/2021						<0.005	
3/4/2021	0.0065		0.00071 (J)	<0.005			
8/19/2021		0.0052			0.00099 (J)		0.0017 (J)
8/20/2021						<0.005	
8/26/2021			0.0011 (J)				
9/1/2021	0.0068						
9/3/2021				<0.005			
2/8/2022			0.0012 (J)	<0.005	0.0013 (J)		
2/9/2022	0.0078						
2/10/2022						<0.005	0.0026 (J)
2/11/2022		0.0038 (J)					
8/30/2022	0.0066						
8/31/2022		0.004 (J)	0.00085 (J)	<0.005	0.00096 (J)	<0.005	0.0026 (J)
2/7/2023	0.014		0.00066 (J)				
2/8/2023		0.0031 (J)		<0.005	0.0011 (J)		
2/9/2023						<0.005	0.0017 (J)
8/15/2023	0.011		0.00072 (J)	<0.005	0.00072 (J)		
8/16/2023		0.0028 (J)					
8/17/2023						<0.005	0.00088 (J)
2/20/2024	0.02	0.0029 (J)	0.00073 (J)	<0.005	0.0011 (J)		
2/22/2024						<0.005	0.0012 (J)
8/20/2024	0.02	0.0023 (J)			0.00034 (J)		
8/21/2024			0.00048 (J)	<0.005		<0.005	0.00094 (J)
2/25/2025	0.041 (o)	0.0023 (J)	<0.005	<0.005	<0.005		
2/27/2025						<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
6/8/2016	0.0016 (J)	0.0024 (J)			
6/9/2016			0.00042 (J)	0.00085 (J)	0.00052 (J)
8/1/2016	0.0014 (J)	0.0026 (J)			
8/2/2016			<0.005	0.0008 (J)	0.0006 (J)
9/20/2016	0.002 (J)	0.0026 (J)			
9/21/2016			<0.005	0.0008 (J)	0.0007 (J)
11/7/2016	0.0016 (J)	0.0025 (J)		0.001 (J)	<0.005
11/8/2016			<0.005		
1/18/2017	0.0017 (J)		<0.005	0.001 (J)	
1/19/2017		0.0024 (J)			<0.005
2/21/2017				0.0011 (J)	
2/22/2017		0.0023 (J)	<0.005		<0.005
2/23/2017	0.002 (J)				
5/5/2017			<0.005	0.0012 (J)	
5/8/2017	0.0029 (J)	0.0023 (J)			<0.005
6/30/2017	0.0044 (J)	0.0022 (J)			
7/5/2017			<0.005		0.0003 (J)
7/7/2017				0.0012 (J)	
3/29/2018	0.051	<0.01			<0.005
3/30/2018			<0.005	<0.005	
6/11/2018					<0.005
6/12/2018		0.0025 (J)	<0.005	0.0011 (J)	
6/13/2018	0.092				
10/2/2018	0.078	0.0023 (J)			<0.005
10/3/2018			<0.005	0.0013 (J)	
2/27/2019	0.035	0.0024 (J)	<0.005	0.00093 (J)	<0.005
4/1/2019	0.025	0.0023 (J)	<0.005		<0.005
4/2/2019				0.0011 (J)	
9/25/2019					<0.005
9/26/2019	0.014	0.0021 (J)	<0.005	0.00098 (J)	
2/13/2020	0.012	0.0026 (J)	<0.005	0.00092 (J)	<0.005
3/19/2020			<0.005	0.00093 (J)	
3/20/2020	0.014	0.0022 (J)			<0.005
9/24/2020	0.0076	0.0021 (J)	<0.005	0.00085 (J)	<0.005
2/10/2021	0.0048 (J)	0.0025 (J)			
2/11/2021			<0.005		
2/12/2021				<0.005	0.00094 (J)
3/3/2021	0.0042 (J)	0.0017 (J)	<0.005	0.001 (J)	<0.005
8/20/2021	0.0034 (J)	0.0027 (J)	<0.005	0.00097 (J)	<0.005
2/8/2022		0.0017 (J)	<0.005	0.00091 (J)	<0.005
2/10/2022	0.0051				
9/1/2022	0.0096	0.0015 (J)	<0.005	0.00071 (J)	<0.005
2/8/2023					0.0053
2/9/2023	0.0083	0.0015 (J)	<0.005	0.00074 (J)	
8/2/2023					0.0027 (J)
8/16/2023			<0.005	0.0008 (J)	
8/17/2023	0.0079	0.0014 (J)			
2/21/2024	0.016	0.0016 (J)	<0.005	0.00074 (J)	
2/22/2024					0.0071
8/21/2024	0.012				
8/22/2024		0.0014 (J)	<0.005	0.00085 (J)	0.0061
2/26/2025	0.014		<0.005	<0.005	0.0063

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
2/27/2025		0.0017 (J)			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)
6/1/2016		0.321 (U)	0.42			0.896	
6/2/2016					2.51		0.721
7/25/2016			1.83			2.28	
7/26/2016		0.707			3.82		1.26
8/31/2016	1.2						
9/13/2016		1.22	0.841				
9/14/2016				0.98		0.821	0.901
9/15/2016					4.24		
11/1/2016		0.805			3.92	0.585	
11/2/2016							1.09
11/4/2016			0.166	0.277			
11/28/2016	0.264 (U)						
12/15/2016				0.071 (U)			
1/11/2017		0.705			2.52	1.22	
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
4/26/2017					2.35	0.672	
4/27/2017		1.08	0.593				
4/28/2017				0.548			
5/1/2017							0.803
5/8/2017	0.187 (U)						
5/26/2017				0			
6/27/2017		1.02 (U)	0.657 (U)				
6/28/2017				0.608 (U)	2.6	1.07 (U)	
6/29/2017							1.35
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
6/5/2018		0.771 (U)					
6/6/2018			2.8				
6/7/2018				0.73 (U)	2.79		0.628 (U)
6/8/2018						1.89	
8/6/2018	0.196 (U)						
9/26/2018							0.756 (U)
10/1/2018		0.783 (U)	1.06 (U)	0.756 (U)	3.14	1.58	
2/27/2019		1.21 (U)	0.637 (U)	0.635 (U)	3.79	3.67	
3/4/2019							1.21 (U)
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)
8/19/2019	1.39						
9/24/2019		1.22 (U)	0.949 (U)	0.429 (U)			
9/25/2019					4.2	1.6	1.86

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)
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
3/17/2020	1 (U)						
3/18/2020			0.458 (U)				
3/19/2020		1.1		0.715 (U)	3.96	2.2	
3/25/2020							0.766 (U)
8/26/2020	1.75						
9/22/2020	0.688 (U)						0.795 (U)
9/23/2020		1.35 (U)	0.00884 (U)	0.565 (U)	4.14	1.14 (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)						
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)
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	
2/11/2022							0.996
8/30/2022	1.52	0.827		0.699 (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)			
2/8/2023					2.74	1.18	
2/9/2023							1.12
8/15/2023	0.833 (U)	0.935 (U)	0.726 (U)	0.611 (U)	2.79		1.14
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)
8/20/2024		0.46 (U)	0.65 (U)	0.0912 (U)	3.09	0.921 (U)	1.18
2/25/2025		1.24	0.978 (U)	0.123 (U)	3.04	1.46	1.54

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/2/2016	5.11	0.614	0.329 (U)				
6/6/2016					0.0804 (U)	0.301 (U)	
6/7/2016				0.158 (U)			0.0191 (U)
7/26/2016	6.92	1.47	1.51				
7/27/2016				0.0354	0.206	0.196	0.541
9/14/2016	3.96	1.27					
9/15/2016			1.04				
9/16/2016				1.04		0.915	
9/19/2016					1.58		0.826
11/2/2016	4.53		0.496				0.791
11/3/2016				0.314	0.342	0.928	
11/4/2016		0.434					
1/10/2017			0.376 (U)				
1/11/2017				0.34 (U)	0.365 (U)	0.502 (U)	
1/12/2017	4.43	0.202					
1/13/2017							0.296
3/1/2017					0.395	0.202	
3/2/2017				0.746			
3/6/2017							0.518
3/7/2017	4.8	0.0674					
3/8/2017			0.0745				
4/26/2017			0.282		0.507	0.264	0.282
5/1/2017	4.16						
5/2/2017		0.444		0.111			
6/27/2017	2.8	0.77 (U)					
6/28/2017					0.892	0.636 (U)	
6/29/2017				0.576 (U)			1.12
6/30/2017			0.994				
3/27/2018			0.189				
3/28/2018				0.438	0.92	0.56	
3/29/2018	3.42	0.648					1.73
6/6/2018	3.99						0.694 (U)
6/7/2018		0.745 (U)			0.668 (U)		
6/8/2018			0.218 (U)				
6/11/2018				0.901 (U)		0.649 (U)	
9/25/2018				0.68 (U)	0.141 (U)	0.574 (U)	0.772 (U)
9/26/2018	2.73	0.377 (U)					
10/1/2018			1.24				
2/26/2019			0.202 (U)				
3/4/2019	4.43	1 (U)					
3/5/2019				0.272 (U)		0.474 (U)	0.84 (U)
3/6/2019					0.714 (U)		
3/29/2019			0 (U)				
4/2/2019				0.847 (U)			
4/3/2019	4.79	0.43 (U)			0.385 (U)	0.429 (U)	1.01
9/24/2019	4.06	0.699 (U)					
9/25/2019			0.707 (U)	0.412 (U)			1.18 (U)
9/26/2019					0.386 (U)	0.222 (U)	
2/11/2020				0.461 (U)	1.48	0.597 (U)	
2/12/2020	4.02	0.913 (U)	1.07 (U)				1.11 (U)
3/18/2020			0.207 (U)				
3/24/2020	3.52	1.37		0.534 (U)	0.632 (U)	0.262 (U)	1.88

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
9/22/2020	2.98	0.428 (U)					
9/23/2020				0.466 (U)	0.887 (U)	0.43 (U)	
9/24/2020							0.611 (U)
9/25/2020			0.603 (U)				
2/8/2021	2.89	0.613 (U)					
2/9/2021				0.529 (U)	0.314 (U)	0.259 (U)	0.284 (U)
2/10/2021			0.353 (U)				
3/2/2021	1.67	0.579 (U)	0.71 (U)				
3/3/2021				0.59 (U)	0.565 (U)	0.352 (U)	0.133 (U)
8/19/2021			0.786 (U)				
8/26/2021	4.68	0.798 (U)				0.686 (U)	
8/27/2021				0.9 (U)	0.761 (U)		0.779 (U)
2/9/2022				0.133 (U)	0.571 (U)	0.0618 (U)	0.504 (U)
2/10/2022	3.33	0.375 (U)	0 (U)				
8/30/2022	5.34	0.72 (U)		1.08	1.01	0.611 (U)	
8/31/2022			0.421 (U)				0.184 (U)
2/7/2023	3.99			0.367 (U)	0.485 (U)	0.656 (U)	0.794 (U)
2/8/2023			0.83 (U)				
2/9/2023		0.0815 (U)					
8/15/2023	3.44	0.846 (U)	0.652 (U)	0.0388 (U)	0.655 (U)	0.347 (U)	0.165 (U)
2/20/2024	2.8	0.63 (U)		0.0387 (U)	0.068 (U)		0.165 (U)
2/23/2024			0.736 (U)			0.318 (U)	
8/20/2024	3.02	0.695 (U)	0.667 (U)	0.554 (U)	0.223 (U)		0.371 (U)
8/21/2024						0.684 (U)	
2/25/2025	3.65	0.767 (U)	0.376 (U)	0.0768 (U)	0.391 (U)	0.359 (U)	1.2 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWC-26I	YGWC-26S
6/2/2016		0.0652 (U)					
6/7/2016	0.347						
6/8/2016						6.68 (o)	0.677
7/25/2016		3.01					
7/28/2016	0.815						
8/1/2016						0.606	0.457
8/30/2016					1.09		
9/19/2016	0.862	0.871 (U)					
9/20/2016						0.565	0.555
11/1/2016		0.307					
11/3/2016	0.797						
11/7/2016						0.773	0.647
12/15/2016					1		
1/13/2017	0.72						
1/16/2017		0.284					
1/18/2017						0.263 (U)	0.6 (U)
2/21/2017		0.503				1.06	1.11
2/24/2017					0.504		
3/6/2017	0.518						
4/26/2017	1.13	0.204					
5/3/2017							0.654
5/8/2017					0.455	0.291	
6/29/2017	0.841 (U)						
6/30/2017		0.738 (U)					
7/10/2017						0.912	0.649 (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)				
2/19/2018				2.05			
2/20/2018			1.58				
3/27/2018		0.31					
3/29/2018	1.91						
3/30/2018						0.23	0.501
4/2/2018					0.512		
4/3/2018			0.385 (U)	0.68 (U)			
6/5/2018	1.39						
6/11/2018		0.608 (U)					
6/13/2018						0.427 (U)	1.09 (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	1.62						
10/2/2018		0.97 (U)				1.41 (U)	0.747 (U)
2/26/2019		0.524 (U)					
2/27/2019						0.614 (U)	1.27
3/5/2019	0.985 (U)						
4/1/2019		1.02 (U)					

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWC-26I	YGWC-26S
4/2/2019	1.42					0.84 (U)	0.708 (U)
8/20/2019					2.44		
8/21/2019			1.01 (U)	1.24			
9/24/2019	1.35						
9/25/2019		1.02 (U)				1.01 (U)	1.18 (U)
10/8/2019					1.72		
10/9/2019			1.02	0.866 (U)			
2/12/2020	1.61	0.301 (U)	0.45 (U)	1.83			
2/13/2020						1.86	0.178 (U)
3/17/2020					1.22 (U)		
3/19/2020		1					0.796 (U)
3/20/2020						2.03	
3/24/2020	1.24 (U)			1.27 (U)			
3/25/2020			0.377 (U)				
8/27/2020					1.26 (U)		
9/22/2020					1.06 (U)		
9/24/2020	1.8	0.684 (U)	0.568 (U)	0.634 (U)		1.47	1.14
2/9/2021	1.24						
2/10/2021			0.518 (U)	0.783 (U)		0.513 (U)	0.41 (U)
2/11/2021		0.678 (U)					
3/1/2021		0.412 (U)			1.2		
3/2/2021							0.394 (U)
3/3/2021						0.419 (U)	
3/4/2021	1.2		0.636 (U)	0.818 (U)			
8/19/2021		0.234 (U)			1.07 (U)		0.531 (U)
8/20/2021						0.596 (U)	
8/26/2021			0.674 (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	1.94						
2/10/2022		0.268 (U)				0.149 (U)	0.431 (U)
8/30/2022	1.27						
8/31/2022		0.506 (U)	0.937	0.513 (U)	0.714 (U)	0.179 (U)	0.602 (U)
2/7/2023	1.53		1.41				
2/8/2023		0.417 (U)		1.56	0.375 (U)		
2/9/2023						1.05 (U)	0.46 (U)
8/15/2023	1.68		0.608 (U)	0.325 (U)	0.947 (U)		
8/16/2023		0.895 (U)					
8/17/2023						0.635 (U)	0.734 (U)
2/20/2024	1.19	0.375 (U)	0.701 (U)	0.437 (U)	0.939 (U)		
2/22/2024						0.745 (U)	0.303 (U)
8/20/2024	0.545 (U)	0.748 (U)			0.873 (U)		
8/21/2024			1.52	0.265 (U)		0.442 (U)	0.78 (U)
2/25/2025	1.14 (U)	0.385 (U)	0.895 (U)	0.685 (U)	1.1 (U)		
2/27/2025						0.179 (U)	0.425 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
6/8/2016	1.81	0.257 (U)			
6/9/2016			0.194 (U)	0.715	0.523
8/1/2016	3.79	0.453			
8/2/2016			0.331	0.526	1.25
9/20/2016	3.12	1.27			
9/21/2016			0.335	0.176	1.21
11/7/2016	2.66	0.877		0.609	1.16
11/8/2016			0.245		
1/18/2017	3.44		0.261 (U)	0.0752 (U)	
1/19/2017		0.764 (U)			0.933 (U)
2/21/2017				0.404	
2/22/2017		1.26	0.516		1.45
2/23/2017	4.73				
5/5/2017			0.713	0.868	
5/8/2017	3.87	0.789			0.21
6/30/2017	2.85	0.592 (U)			
7/5/2017			0.292 (U)		0.62 (U)
7/7/2017				1.29	
3/29/2018	1.41	0.916			1.37
3/30/2018			0.948	0.195	
6/11/2018					1.27 (U)
6/12/2018		0.666 (U)	0.869 (U)	1.02 (U)	
6/13/2018	3.69				
10/2/2018	4.5	0.774 (U)			0.442 (U)
10/3/2018			0.864 (U)	0.713 (U)	
2/27/2019	4.69	1.19	0.947 (U)	0.543 (U)	0.902 (U)
4/1/2019	5	0.777 (U)	0.162 (U)		0.584 (U)
4/2/2019				0.521 (U)	
9/25/2019					1.03 (U)
9/26/2019	3.37	1.01 (U)	1.06 (U)	1.16	
2/13/2020	4.48	0.961 (U)	1.12 (U)	1.04	0.806 (U)
3/19/2020			0.913 (U)	1.01 (U)	
3/20/2020	4.13	1.5			1.42
9/24/2020	3.42	1.49	0.47	1.25	1.44
2/10/2021	2.47	0.663 (U)			
2/11/2021			1.07		
2/12/2021				0.419 (U)	0.826
3/3/2021	1.39	0.327 (U)	0.261 (U)	1.04	0.955
8/20/2021	1.36	0.542 (U)	0.656 (U)	1.34	0.314 (U)
2/8/2022		0.781 (U)	1.07 (U)	0.964	0.104 (U)
2/10/2022	1.23				
9/1/2022	2.93	0.147 (U)	0.602 (U)	0.127 (U)	0.445 (U)
2/8/2023					0.963 (U)
2/9/2023	2.56	0.348 (U)	0.164 (U)	0.733 (U)	
8/2/2023					1.23
8/16/2023			0.62 (U)	0.837 (U)	
8/17/2023	3.48	0.509 (U)			
2/21/2024	3.26	0.669 (U)	0.447 (U)	0.781 (U)	
2/22/2024					0.871 (U)
8/21/2024	2.97				
8/22/2024		0.428 (U)	0.762 (U)	0.58 (U)	0.459 (U)
2/26/2025	2.96		0.755 (U)	1.16 (U)	1.3 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
2/27/2025		0.614 (U)			

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)
6/1/2016		0.12 (J)	<0.1			0.15 (J)	
6/2/2016					0.62		<0.1
7/25/2016			0.06 (J)			0.14 (J)	
7/26/2016		0.08 (J)			0.49		<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
9/15/2016					0.54		
11/1/2016		0.1 (J)			0.68	0.15 (J)	
11/2/2016							0.07 (J)
11/4/2016			0.07 (J)	0.12 (J)			
11/28/2016	0.12 (J)						
12/15/2016				0.06 (J)			
1/11/2017		0.05 (J)			0.49	0.09 (J)	
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)
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
5/8/2017	0.05 (J)						
5/26/2017				0.09 (J)			
6/27/2017		0.06 (J)	0.06 (J)				
6/28/2017				0.11 (J)	0.47	0.12 (J)	
6/29/2017							0.02 (J)
7/17/2017	0.14 (J)						
10/3/2017		0.07 (J)	<0.1	0.12 (J)			
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
6/5/2018		0.055 (J)					
6/6/2018			<0.1				
6/7/2018				0.11 (J)	0.48		<0.1
6/8/2018						0.2 (J)	
8/6/2018	0.087 (J)						
9/26/2018							<0.1
10/1/2018		<0.3	<0.1	<0.3	0.44	<0.1	
2/25/2019	0.14 (J)						
2/27/2019		0.052 (J)	<0.1	0.12 (J)	0.53	0.13 (J)	
3/4/2019							<0.1
3/28/2019		0.036 (J)	<0.1				
3/29/2019				0.13 (J)			
4/1/2019					0.45	0.1 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)
4/3/2019							<0.1
6/12/2019	0.12 (J)						
8/19/2019	<0.3						
9/24/2019		0.063 (J)	<0.1	0.081 (J)			
9/25/2019					0.46	0.1 (J)	<0.1
10/8/2019	0.052 (J)						
2/10/2020		0.061 (J)	<0.1				
2/11/2020				0.075 (J)		0.094 (J)	
2/12/2020					0.4		<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)	
3/25/2020							<0.1
8/26/2020	0.068 (J)						
9/22/2020	0.058 (J)						<0.1
9/23/2020		0.058 (J)	<0.1	0.08 (J)	0.47	0.098 (J)	
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)						
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
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)	
2/11/2022							<0.1
8/30/2022	0.086 (J)	0.093 (J)		0.12			
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			
2/8/2023					0.56	0.16	
2/9/2023							0.067 (J)
8/15/2023	0.065 (J)	0.057 (J)	<0.1	0.081 (J)	0.42		<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)
8/20/2024		0.066 (J)	<0.1	0.085 (J)	0.45	0.12	<0.1
2/25/2025		0.094 (J)	0.06 (J)	0.12	0.45	0.14	0.061 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/2/2016	0.11 (J)	<0.1	<0.1				
6/6/2016					<0.1	<0.1	
6/7/2016				<0.1			<0.1
7/26/2016	0.05 (J)	<0.1	0.02 (J)				
7/27/2016				<0.1	<0.1	<0.1	<0.1
9/14/2016	0.04 (J)	<0.1					
9/15/2016			<0.1				
9/16/2016				<0.1		<0.1	
9/19/2016					<0.1		<0.1
11/2/2016	0.2 (J)		0.04 (J)				<0.1
11/3/2016				<0.1	<0.1	<0.1	
11/4/2016		<0.1					
1/10/2017			<0.1				
1/11/2017				<0.1	<0.1	<0.1	
1/12/2017	0.04 (J)	<0.1					
1/13/2017							<0.1
3/1/2017					0.03 (J)	0.03 (J)	
3/2/2017				0.04 (J)			
3/6/2017							0.04 (J)
3/7/2017	0.09 (J)	0.03 (J)					
3/8/2017			0.04 (J)				
4/26/2017			<0.1		<0.1	<0.1	<0.1
5/1/2017	0.04 (J)						
5/2/2017		<0.1		<0.1			
6/27/2017	0.09 (J)	<0.1					
6/28/2017					<0.1	<0.1	
6/29/2017				0.02 (J)			0.03 (J)
6/30/2017			<0.1				
10/3/2017	0.05 (J)	<0.1					
10/4/2017				<0.1		<0.1	<0.1
10/5/2017			<0.1		<0.1		
3/27/2018			<0.1				
3/28/2018				<0.1	<0.1	<0.1	
3/29/2018	<0.1	<0.1					<0.1
6/6/2018	0.15 (J)						<0.1
6/7/2018		<0.1			<0.1		
6/8/2018			<0.1				
6/11/2018				<0.1		<0.1	
9/25/2018				<0.1	<0.1	<0.1	<0.1
9/26/2018	<0.1	<0.1					
10/1/2018			<0.1				
2/26/2019			<0.1				
3/4/2019	0.19 (J)	<0.1					
3/5/2019				<0.1		<0.1	<0.1
3/6/2019					<0.1		
3/29/2019			<0.1				
4/2/2019				<0.1			
4/3/2019	0.047 (J)	<0.1			<0.1	<0.1	<0.1
9/24/2019	0.05 (J)	<0.1					
9/25/2019			<0.1	<0.1			<0.1
9/26/2019					<0.1	<0.1	
10/10/2019	0.16 (J)	1.1		<0.1			0.099 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
2/11/2020				<0.1	<0.1	<0.1	
2/12/2020	<0.1	<0.1	<0.1				<0.1
3/18/2020			<0.1				
3/24/2020	<0.1	<0.1		<0.1	<0.1	<0.1	<0.1
9/22/2020	0.056 (J)	<0.1					
9/23/2020				<0.1	<0.1	<0.1	
9/24/2020							<0.1
9/25/2020			<0.1				
2/8/2021	0.055 (J)	<0.1					
2/9/2021				<0.1	<0.1	<0.1	<0.1
2/10/2021			<0.1				
3/2/2021	<0.1	<0.1	<0.1				
3/3/2021				<0.1	<0.1	<0.1	<0.1
8/19/2021			<0.1				
8/26/2021	0.061 (J)	<0.1				<0.1	
8/27/2021				<0.1	<0.1		<0.1
2/9/2022				<0.1	<0.1	<0.1	<0.1
2/10/2022	0.055 (J)	<0.1	<0.1				
8/30/2022	0.085 (J)	<0.1		<0.1	<0.1	<0.1	
8/31/2022			0.053 (J)				<0.1
2/7/2023	0.082 (J)			<0.1	<0.1	<0.1	<0.1
2/8/2023			0.059 (J)				
2/9/2023		<0.1					
8/15/2023	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
2/20/2024	0.076 (J)	<0.1		<0.1	<0.1		<0.1
2/23/2024			<0.1			<0.1	
8/20/2024	0.058 (J)	<0.1	<0.1	<0.1	<0.1		<0.1
8/21/2024						0.051 (J)	
2/25/2025	0.082 (J)	<0.1	0.052 (J)	<0.1	<0.1	<0.1	<0.1

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWC-26I	YGWC-26S
6/2/2016		<0.1					
6/7/2016	<0.3						
6/8/2016						0.094 (J)	<0.1
7/25/2016		0.06 (J)					
7/28/2016	0.02 (J)						
8/1/2016						0.08 (J)	0.24 (J)
8/30/2016					0.09 (J)		
9/19/2016	0.02 (J)	<0.1					
9/20/2016						0.05 (J)	0.03 (J)
11/1/2016		0.07 (J)					
11/3/2016	0.07 (J)						
11/7/2016						0.12 (J)	0.44
11/14/2016					0.18 (J)		
1/13/2017	<0.3						
1/16/2017		<0.1					
1/18/2017						0.11 (J)	0.07 (J)
2/21/2017		0.05 (J)				0.1 (J)	0.11 (J)
2/24/2017					0.05 (J)		
3/6/2017	0.09 (J)						
4/26/2017	0.04 (J)	<0.1					
5/3/2017							0.16 (J)
5/8/2017					0.03 (J)	0.08 (J)	
6/29/2017	0.05 (J)						
6/30/2017		0.01 (J)					
7/10/2017						0.04 (J)	0.04 (J)
7/11/2017					0.07 (J)		
10/3/2017	0.08 (J)						
10/4/2017		<0.1					
10/10/2017					<0.1	<0.1	<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				
2/19/2018				<0.1			
2/20/2018			<0.1				
3/27/2018		<0.1					
3/29/2018	<0.3						
3/30/2018						<0.1	0.35
4/2/2018					<0.1		
4/3/2018			<0.1	<0.1			
6/5/2018	0.13 (J)						
6/11/2018		<0.1					
6/13/2018						0.088 (J)	0.044 (J)
6/28/2018			<0.1	<0.1			
8/7/2018			0.048 (J)	<0.1			
9/19/2018					<0.1		
9/24/2018			<0.1	<0.1			
9/25/2018	0.029 (J)						
10/2/2018		<0.1				<0.1	<0.1
2/26/2019		<0.1					
2/27/2019						<0.1	<0.1

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWC-26I	YGWC-26S
3/5/2019	0.32						
3/26/2019				<0.1			
3/27/2019			<0.1		0.081 (J)		
4/1/2019		<0.1					
4/2/2019	0.12 (J)					0.071 (J)	<0.1
8/20/2019					<0.1		
8/21/2019			<0.1	<0.1			
9/24/2019	0.15 (J)						
9/25/2019		<0.1				0.064 (J)	<0.1
10/8/2019					0.034 (J)		
10/9/2019			<0.1	<0.1			
10/10/2019	0.11 (J)						
2/12/2020	0.1 (J)	<0.1	<0.1	<0.1			
2/13/2020						<0.1	<0.1
3/17/2020					<0.1		
3/19/2020		<0.1					<0.1
3/20/2020						0.06 (J)	
3/24/2020	0.081 (J)			<0.1			
3/25/2020			<0.1				
8/27/2020					<0.1		
9/22/2020					<0.1		
9/24/2020	0.079 (J)	<0.1	<0.1	<0.1		0.053 (J)	<0.1
2/9/2021	0.092 (J)						
2/10/2021			<0.1	<0.1		0.05 (J)	<0.1
2/11/2021		<0.1					
3/1/2021		<0.1			<0.1		
3/2/2021							<0.1
3/3/2021						0.05 (J)	
3/4/2021	0.091 (J)		<0.1	<0.1			
8/19/2021		<0.1			<0.1		<0.1
8/20/2021						<0.1	
8/26/2021			0.063 (J)				
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						
2/10/2022						<0.1	<0.1
2/11/2022		<0.1					
8/30/2022	0.1						
8/31/2022		0.06 (J)	0.065 (J)	0.05 (J)	0.065 (J)	0.082 (J)	0.076 (J)
2/7/2023	0.1		0.076 (J)				
2/8/2023		0.064 (J)		<0.1	0.077 (J)		
2/9/2023						0.088 (J)	0.07 (J)
8/15/2023	0.061 (J)		<0.1	<0.1	<0.1		
8/16/2023		<0.1					
8/17/2023						0.073 (J)	0.06 (J)
2/20/2024	0.083 (J)	0.051 (J)	0.063 (J)	<0.1	0.073 (J)		
2/22/2024						0.057 (J)	<0.1
8/20/2024	0.062 (J)	<0.1			<0.1		
8/21/2024			0.083 (J)	0.06 (J)		0.098 (J)	<0.1
2/25/2025	0.088 (J)	0.062 (J)	0.078 (J)	0.053 (J)	0.069 (J)		
2/27/2025						0.087 (J)	0.069 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
6/8/2016	0.086 (J)	0.12 (J)			
6/9/2016			0.098 (J)	0.16 (J)	0.085 (J)
8/1/2016	0.14 (J)	0.22 (J)			
8/2/2016			0.38	0.5	0.09 (J)
9/20/2016	<0.3	0.32			
9/21/2016			0.08 (J)	0.25 (J)	0.09 (J)
11/7/2016	0.12 (J)	0.2 (J)		0.27 (J)	0.11 (J)
11/8/2016			0.24 (J)		
1/18/2017	0.08 (J)		0.12 (J)	0.34	
1/19/2017		0.25 (J)			0.06 (J)
2/21/2017				0.27 (J)	
2/22/2017		0.21 (J)	0.15 (J)		0.09 (J)
2/23/2017	0.08 (J)				
5/5/2017			0.08 (J)	0.2 (J)	
5/8/2017	0.07 (J)	0.19 (J)			0.06 (J)
6/30/2017	0.03 (J)	0.2 (J)			
7/5/2017			0.11 (J)		0.08 (J)
7/7/2017				0.18 (J)	
10/5/2017			0.08 (J)		0.09 (J)
10/6/2017		0.15 (J)			
10/9/2017	0.07 (J)			0.25 (J)	
3/29/2018	<0.3	0.49			<0.3
3/30/2018			<0.3	<0.3	
6/11/2018					<0.3
6/12/2018		0.037 (J)	<0.3	0.13 (J)	
6/13/2018	<0.3				
10/2/2018	<0.3	<0.1			<0.3
10/3/2018			<0.3	0.31	
2/27/2019	<0.3	0.14 (J)	0.14 (J)	0.22 (J)	0.15 (J)
4/1/2019	0.034 (J)	0.088 (J)	0.078 (J)		0.059 (J)
4/2/2019				0.14 (J)	
9/25/2019					0.054 (J)
9/26/2019	0.14 (J)	0.22 (J)	0.29 (J)	0.28 (J)	
2/13/2020	<0.3	0.11 (J)	0.14 (J)	0.18 (J)	0.053 (J)
3/19/2020			0.07 (J)	0.16 (J)	
3/20/2020	<0.3	0.097 (J)			0.057 (J)
9/24/2020	0.059 (J)	0.092 (J)	0.073 (J)	0.16	0.06 (J)
2/10/2021	0.055 (J)	0.084 (J)			
2/11/2021			0.066 (J)		
2/12/2021				0.069 (J)	0.17
3/3/2021	0.058 (J)	<0.1	0.072 (J)	0.13	0.056 (J)
8/20/2021	0.091 (J)	0.11	0.11	0.2	0.069 (J)
2/8/2022		0.087 (J)	0.063 (J)	0.14	0.053 (J)
2/10/2022	0.059 (J)				
9/1/2022	0.1	0.12	0.11	0.16	0.091 (J)
2/8/2023					0.092 (J)
2/9/2023	0.1	0.12	0.14	0.18	
8/2/2023					0.054 (J)
8/16/2023			0.078 (J)	0.18	
8/17/2023	0.081 (J)	0.098 (J)			
2/21/2024	0.082 (J)	0.11	0.096 (J)	0.15	
2/22/2024					0.075 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
8/21/2024	0.12				
8/22/2024		0.075 (J)	0.08 (J)	0.14	0.071 (J)
2/26/2025	0.059 (J)		0.067 (J)	0.13	0.059 (J)
2/27/2025		0.12			

Time Series

Constituent: Lead (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (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
7/21/2016	<0.001						
7/25/2016			<0.001			<0.001	
7/26/2016		<0.001			0.0001 (J)		<0.001
8/31/2016	<0.001						
9/13/2016		0.0001 (J)	<0.001				
9/14/2016				<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
11/4/2016			<0.001	<0.001			
11/28/2016	<0.001						
12/15/2016				<0.001			
1/11/2017		<0.001			<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
4/26/2017					<0.001	<0.001	
4/27/2017		<0.001	<0.001				
4/28/2017				<0.001			
5/1/2017							<0.001
5/8/2017	<0.001						
5/26/2017				<0.001			
6/27/2017		<0.001	<0.001				
6/28/2017				<0.001	<0.001	<0.001	
6/29/2017							<0.001
7/17/2017	<0.001						
10/16/2017	<0.001						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)
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
8/6/2018	<0.001						
2/25/2019	<0.001						
2/27/2019		<0.001	<0.001	<0.001	<0.001	<0.001	
3/4/2019							<0.001
4/3/2019							<0.001
6/12/2019	<0.001						
8/19/2019	<0.001						
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
3/17/2020	<0.001						
3/18/2020			<0.001				
3/19/2020		0.00012 (J)		<0.001	0.00017 (J)	<0.001	
3/25/2020							<0.001
8/26/2020	<0.001						
9/22/2020	0.0001 (J)						<0.001
9/23/2020		<0.001	0.00021 (J)	0.0011 (J)	<0.001	0.00015 (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						
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
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	
2/11/2022							<0.001
8/30/2022	<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			
2/8/2023					<0.001	<0.001	
2/9/2023							<0.001
8/15/2023	<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
8/20/2024		<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

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/2/2016	<0.001	<0.001	<0.001				
6/6/2016					<0.001	<0.001	
6/7/2016				<0.001			<0.001
7/26/2016	<0.001	<0.001	<0.001				
7/27/2016				<0.001	<0.001	<0.001	<0.001
9/14/2016	<0.001	<0.001					
9/15/2016			<0.001				
9/16/2016				<0.001		<0.001	
9/19/2016					<0.001		<0.001
11/2/2016	<0.001		<0.001				0.0013 (J)
11/3/2016				<0.001	<0.001	<0.001	
11/4/2016		<0.001					
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
3/1/2017					<0.001	0.0001 (J)	
3/2/2017				8E-05 (J)			
3/6/2017							<0.001
3/7/2017	0.0001 (J)	7E-05 (J)					
3/8/2017			0.0001 (J)				
4/26/2017			<0.001		<0.001	0.0001 (J)	<0.001
5/1/2017	<0.001						
5/2/2017		<0.001		<0.001			
6/27/2017	<0.001	<0.001					
6/28/2017					<0.001	0.0001 (J)	
6/29/2017				8E-05 (J)			<0.001
6/30/2017			<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
2/26/2019			<0.001				
3/4/2019	<0.001	<0.001					
3/5/2019				<0.001		<0.001	<0.001
3/6/2019					<0.001		
4/2/2019				<0.001			
4/3/2019	<0.001	<0.001			<0.001	<0.001	<0.001
9/24/2019	<0.001	9E-05 (J)					
9/25/2019				<0.001			<0.001
9/26/2019					<0.001	<0.001	
2/11/2020				<0.001	<0.001	<0.001	
2/12/2020	<0.001	<0.001	<0.001				<0.001
3/18/2020			<0.001				
3/24/2020	5.4E-05 (J)	6.8E-05 (J)		6.4E-05 (J)	7.1E-05 (J)	5.4E-05 (J)	0.00011 (J)
9/22/2020	4.5E-05 (J)	4.2E-05 (J)					
9/23/2020				4.1E-05 (J)	6E-05 (J)	9.7E-05 (J)	
9/24/2020							9.2E-05 (J)
9/25/2020			<0.001				
2/8/2021	0.00013 (J)	3.7E-05 (J)					
2/9/2021				<0.001	5E-05 (J)	9.4E-05 (J)	6.3E-05 (J)
2/10/2021			4.8E-05 (J)				
3/2/2021	5.1E-05 (J)	9.2E-05 (J)	<0.001				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
3/3/2021				<0.001	<0.001	7.6E-05 (J)	4.5E-05 (J)
8/19/2021			<0.001				
8/26/2021	<0.001	<0.001				<0.001	
8/27/2021				<0.001	<0.001		<0.001
2/9/2022				<0.001	<0.001	<0.001	<0.001
2/10/2022	<0.001	<0.001	<0.001				
8/30/2022	<0.001	<0.001		<0.001	<0.001	<0.001	
8/31/2022			<0.001				<0.001
2/7/2023	<0.001			<0.001	<0.001	<0.001	<0.001
2/8/2023			<0.001				
2/9/2023		<0.001					
8/15/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/20/2024	<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
8/21/2024						<0.001	
2/25/2025	<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 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWC-26I	YGWC-26S
6/2/2016		<0.001					
6/7/2016	<0.001						
6/8/2016						<0.001	<0.001
7/25/2016		<0.001					
7/28/2016	<0.001						
8/1/2016						<0.001	<0.001
8/30/2016					<0.001		
9/19/2016	<0.001	<0.001					
9/20/2016						<0.001	<0.001
11/1/2016		<0.001					
11/3/2016	<0.001						
11/7/2016						<0.001	<0.001
11/14/2016					<0.001		
1/13/2017	<0.001						
1/16/2017		<0.001					
1/18/2017						<0.001	<0.001
2/21/2017		<0.001				<0.001	<0.001
2/24/2017					<0.001		
3/6/2017	<0.001						
4/26/2017	<0.001	<0.001					
5/3/2017							0.0001 (J)
5/8/2017					<0.001	<0.001	
6/29/2017	<0.001						
6/30/2017		<0.001					
7/10/2017						<0.001	8E-05 (J)
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)				
2/19/2018				<0.001			
2/20/2018			<0.001				
3/27/2018		<0.001					
3/29/2018	<0.001						
3/30/2018						<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					
2/27/2019						<0.001	<0.001
3/5/2019	<0.001						
4/2/2019	<0.001						
8/20/2019					<0.001		
8/21/2019			<0.001	<0.001			
9/24/2019	<0.001						
10/9/2019			<0.001	<0.001			
2/12/2020	<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 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWC-26I	YGWC-26S
2/13/2020						<0.001	<0.001
3/19/2020		<0.001					0.0001 (J)
3/20/2020						5.9E-05 (J)	
3/24/2020	<0.001			<0.001			
3/25/2020			5.1E-05 (J)				
8/27/2020					<0.001		
9/22/2020					<0.001		
9/24/2020	4.6E-05 (J)	<0.001	<0.001	3.8E-05 (J)		<0.001	6.4E-05
2/9/2021	<0.001						
2/10/2021			<0.001	<0.001		5.1E-05 (J)	5E-05 (J)
2/11/2021		4.6E-05 (J)					
3/1/2021		<0.001			<0.001		
3/2/2021							5.6E-05 (J)
3/3/2021						<0.001	
3/4/2021	<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				
9/1/2021	<0.001						
9/3/2021				<0.001			
2/8/2022			<0.001	<0.001	<0.001		
2/9/2022	<0.001						
2/10/2022						<0.001	<0.001
2/11/2022		<0.001					
8/30/2022	<0.001						
8/31/2022		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/7/2023	<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		
8/16/2023		<0.001					
8/17/2023						<0.001	<0.001
2/20/2024	<0.001	<0.001	<0.001	<0.001	<0.001		
2/22/2024						<0.001	<0.001
8/20/2024	<0.001	<0.001			<0.001		
8/21/2024			<0.001	<0.001		<0.001	<0.001
2/25/2025	<0.001	<0.001	<0.001	<0.001	<0.001		
2/27/2025						<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
6/8/2016	<0.001	0.0012 (J)			
6/9/2016			<0.001	<0.001	<0.001
8/1/2016	<0.001	<0.001			
8/2/2016			<0.001	<0.001	<0.001
9/20/2016	<0.001	0.0002 (J)			
9/21/2016			<0.001	<0.001	<0.001
11/7/2016	<0.001	<0.001		<0.001	<0.001
11/8/2016			<0.001		
1/18/2017	<0.001		<0.001	<0.001	
1/19/2017		<0.001			<0.001
2/21/2017				<0.001	
2/22/2017		<0.001	<0.001		<0.001
2/23/2017	<0.001				
5/5/2017			<0.001	9E-05 (J)	
5/8/2017	<0.001	<0.001			<0.001
6/30/2017	<0.001	<0.001			
7/5/2017			<0.001		<0.001
7/7/2017				7E-05 (J)	
3/29/2018	<0.001	<0.001			<0.001
3/30/2018			<0.001	<0.001	
2/27/2019	<0.001	<0.001	<0.001	<0.001	<0.001
2/13/2020	<0.001	6.2E-05 (J)	<0.001	5.4E-05 (J)	<0.001
3/19/2020			<0.001	7.5E-05 (J)	
3/20/2020	<0.001	8.5E-05 (J)			<0.001
9/24/2020	<0.001	0.00037 (J)	<0.001	6.3E-05	9.5E-05
2/10/2021	<0.001	0.00072 (J)			
2/11/2021			<0.001		
2/12/2021				5.2E-05 (J)	6.6E-05 (J)
3/3/2021	<0.001	<0.001	<0.001	<0.001	0.00016 (J)
8/20/2021	<0.001	0.00096 (J)	<0.001	<0.001	<0.001
2/8/2022		<0.001	<0.001	<0.001	<0.001
2/10/2022	<0.001				
9/1/2022	<0.001	<0.001	<0.001	<0.001	<0.001
2/8/2023					<0.001
2/9/2023	<0.001	<0.001	<0.001	<0.001	
8/2/2023					<0.001
8/16/2023			<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
8/21/2024	<0.001				
8/22/2024		<0.001	<0.001	<0.001	<0.001
2/26/2025	<0.001		<0.001	<0.001	<0.001
2/27/2025		<0.001			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)
6/1/2016		0.015	<0.03			0.01	
6/2/2016					0.018		0.013
7/25/2016			0.002 (J)			0.0132 (J)	
7/26/2016		0.0135 (J)			0.0221 (J)		0.0123 (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)
9/15/2016					0.0197 (J)		
11/1/2016		0.0163 (J)			0.0194 (J)	0.0115 (J)	
11/2/2016							0.0136 (J)
11/4/2016			<0.03	<0.03			
11/28/2016	<0.15						
12/15/2016				0.0026 (J)			
1/11/2017		0.0166 (J)			0.0177 (J)	0.0085 (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)
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)
5/8/2017	0.0014 (J)						
5/26/2017				0.0038 (J)			
6/27/2017		0.0094 (J)	0.0024 (J)				
6/28/2017				0.0026 (J)	0.0173 (J)	0.0085 (J)	
6/29/2017							0.0145 (J)
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)
6/5/2018		0.0079 (J)					
6/6/2018			0.0024 (J)				
6/7/2018				0.0017 (J)	0.02 (J)		0.013 (J)
6/8/2018						0.012 (J)	
8/6/2018	<0.15						
9/26/2018							0.014 (J)
10/1/2018		0.0053 (J)	0.0023 (J)	<0.03	0.02 (J)	0.011 (J)	
2/27/2019		0.0093 (J)	0.0023 (J)	0.0011 (J)	0.021 (J)	0.014 (J)	
3/4/2019							0.015 (J)
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)
8/19/2019	0.0019 (J)						
9/24/2019		0.0046 (J)	0.0023 (J)	0.0011 (J)			
9/25/2019					0.02 (J)	0.01 (J)	0.014 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)
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)
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)	
3/25/2020							0.014 (J)
8/26/2020	0.0032 (J)						
9/22/2020	0.0029 (J)						0.013 (J)
9/23/2020		0.014 (J)	0.0024 (J)	0.0016 (J)	0.023 (J)	0.013 (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)						
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)
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)	
2/11/2022							0.012 (J)
8/30/2022	0.0025 (J)	0.013 (J)		0.0044 (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)			
2/8/2023					0.023 (J)	0.018 (J)	
2/9/2023							0.014 (J)
8/15/2023	<0.15	0.0079 (J)	0.002 (J)	<0.03	0.023 (J)		0.0083 (J)
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)
8/20/2024		0.0037 (J)	0.0023 (J)	<0.03	0.021 (J)	0.017 (J)	0.011 (J)
2/25/2025		0.00366 (J)	0.0027 (J)	0.00111 (J)	0.0219 (J)	0.0168 (J)	0.0125 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/2/2016	0.0049 (J)	<0.15	<0.03				
6/6/2016					0.0088	0.015	
6/7/2016				<0.03			<0.03
7/26/2016	0.0063 (J)	0.0027 (J)	<0.03				
7/27/2016				<0.03	0.0087 (J)	0.0049 (J)	<0.03
9/14/2016	0.0058 (J)	0.0029 (J)					
9/15/2016			<0.03				
9/16/2016				<0.03		0.0031 (J)	
9/19/2016					0.0043 (J)		<0.03
11/2/2016	0.0053 (J)		<0.03				<0.03
11/3/2016				<0.03	<0.15	0.0021 (J)	
11/4/2016		<0.15					
1/10/2017			<0.03				
1/11/2017				0.0035 (J)	0.0052 (J)	0.0025 (J)	
1/12/2017	0.0054 (J)	0.0032 (J)					
1/13/2017							<0.03
3/1/2017					0.0053 (J)	0.0029 (J)	
3/2/2017				<0.03			
3/6/2017							<0.03
3/7/2017	0.0056 (J)	0.0035 (J)					
3/8/2017			<0.03				
4/26/2017			<0.03		0.0041 (J)	0.0019 (J)	<0.03
5/1/2017	0.0031 (J)						
5/2/2017		0.0031 (J)		<0.03			
6/27/2017	0.0018 (J)	0.0029 (J)					
6/28/2017					0.0039 (J)	0.0016 (J)	
6/29/2017				<0.03			<0.03
6/30/2017			<0.03				
3/27/2018			<0.03				
3/28/2018				<0.03	0.0041 (J)	0.0024 (J)	
3/29/2018	0.0058 (J)	0.0034 (J)					<0.03
6/6/2018	0.0068 (J)						<0.03
6/7/2018		0.0032 (J)			0.0032 (J)		
6/8/2018			<0.03				
6/11/2018				<0.03		0.0014 (J)	
9/25/2018				<0.03	0.0036 (J)	0.0016 (J)	<0.03
9/26/2018	0.0065 (J)	0.0032 (J)					
10/1/2018			<0.03				
2/26/2019			<0.03				
3/4/2019	0.0065 (J)	0.0032 (J)					
3/5/2019				<0.03		0.0031 (J)	<0.03
3/6/2019					0.0033 (J)		
3/29/2019			<0.03				
4/2/2019				<0.03			
4/3/2019	0.007 (J)	0.0035 (J)			0.0035 (J)	0.0028 (J)	<0.03
9/24/2019	0.0065 (J)	0.0031 (J)					
9/25/2019			<0.03	<0.03			<0.03
9/26/2019					0.0032 (J)	0.0029 (J)	
2/11/2020				<0.03	0.0033 (J)	0.005 (J)	
2/12/2020	0.0066 (J)	0.0032 (J)	<0.03				<0.03
3/18/2020			<0.03				
3/24/2020	0.0064 (J)	0.0033 (J)		0.0034 (J)	0.0033 (J)	0.0035 (J)	<0.03

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
9/22/2020	0.0066 (J)	0.0034 (J)					
9/23/2020				<0.03	0.003 (J)	0.0022 (J)	
9/24/2020							<0.03
9/25/2020			<0.03				
2/8/2021	0.0063 (J)	0.0032 (J)					
2/9/2021				<0.03	0.0031 (J)	0.0019 (J)	<0.03
2/10/2021			<0.03				
3/2/2021	0.0018 (J)	0.0031 (J)	<0.03				
3/3/2021				<0.03	0.0034 (J)	0.0021 (J)	<0.03
8/19/2021			<0.03				
8/26/2021	0.0075 (J)	0.0032 (J)				0.0019 (J)	
8/27/2021				<0.03	0.0032 (J)		<0.03
2/9/2022				<0.03	0.0032 (J)	0.0015 (J)	0.00082 (J)
2/10/2022	0.0076 (J)	0.0036 (J)	<0.03				
8/30/2022	0.0068 (J)	0.0035 (J)		<0.03	0.0036 (J)	0.0014 (J)	
8/31/2022			<0.03				<0.03
2/7/2023	0.0059 (J)			<0.03	0.003 (J)	0.0012 (J)	<0.03
2/8/2023			<0.03				
2/9/2023		0.0036 (J)					
8/15/2023	0.0059 (J)	<0.15	<0.03	<0.03	<0.15	0.00077 (J)	<0.03
2/20/2024	0.0056 (J)	0.0033 (J)		<0.03	0.0038 (J)		<0.03
2/23/2024			<0.03			<0.03	
8/20/2024	0.0024 (J)	0.0031 (J)	<0.03	<0.03	0.0032 (J)		<0.03
8/21/2024						0.0032 (J)	
2/25/2025	0.00582 (J)	0.00364 (J)	<0.03	<0.03	0.00373 (J)	0.00129 (J)	<0.03

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWC-26I	YGWC-26S
6/2/2016		<0.03					
6/7/2016	0.0055						
6/8/2016						0.007	<0.03
7/25/2016		<0.03					
7/28/2016	0.0045 (J)						
8/1/2016						0.0068 (J)	<0.03
8/30/2016					0.0061 (J)		
9/19/2016	0.0054 (J)	<0.03					
9/20/2016						0.0062 (J)	<0.03
11/1/2016		<0.03					
11/3/2016	<0.05						
11/7/2016						0.0057 (J)	<0.03
11/14/2016					0.0064 (J)		
1/13/2017	0.0062 (J)						
1/16/2017		<0.03					
1/18/2017						0.0066 (J)	<0.03
2/21/2017		<0.03				0.0067 (J)	<0.03
2/24/2017					0.0049 (J)		
3/6/2017	0.0059 (J)						
4/26/2017	0.0054 (J)	<0.03					
5/3/2017							<0.03
5/8/2017					0.0053 (J)	0.007 (J)	
6/29/2017	0.0047 (J)						
6/30/2017		<0.03					
7/10/2017						0.0064 (J)	<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)				
2/19/2018				<0.03			
2/20/2018			<0.05				
3/27/2018		0.0011 (J)					
3/29/2018	0.0062 (J)						
3/30/2018						0.0068 (J)	<0.03
4/2/2018					0.0045 (J)		
4/3/2018			0.0022 (J)	<0.03			
6/5/2018	0.0061 (J)						
6/11/2018		0.0012 (J)					
6/13/2018						0.0071 (J)	<0.03
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	0.0062 (J)						
10/2/2018		<0.03				0.0064 (J)	<0.03
2/26/2019		0.0011 (J)					
2/27/2019						0.0069 (J)	<0.03
3/5/2019	0.0053 (J)						
4/1/2019		0.001 (J)					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWC-26I	YGWC-26S
4/2/2019	0.0051 (J)					0.0064 (J)	<0.03
8/20/2019					0.0036 (J)		
8/21/2019			0.0035 (J)	<0.03			
9/24/2019	0.0068 (J)						
9/25/2019		0.0011 (J)				0.0073 (J)	<0.03
10/8/2019					0.0036 (J)		
10/9/2019			0.0036 (J)	<0.03			
2/12/2020	0.0065 (J)	0.0013 (J)	0.0041 (J)	<0.03			
2/13/2020						0.0073 (J)	<0.03
3/17/2020					0.0046 (J)		
3/19/2020		0.0012 (J)					<0.03
3/20/2020						0.0072 (J)	
3/24/2020	0.0064 (J)			<0.03			
3/25/2020			0.0049 (J)				
8/27/2020					0.0039 (J)		
9/22/2020					0.0036 (J)		
9/24/2020	0.0069 (J)	0.0011 (J)	0.0054 (J)	<0.03		0.0074 (J)	<0.03
2/9/2021	0.006 (J)						
2/10/2021			0.0071 (J)	<0.03		0.0067 (J)	<0.03
2/11/2021		0.0012 (J)					
3/1/2021		0.0011 (J)			0.0037 (J)		
3/2/2021							<0.03
3/3/2021						0.0077 (J)	
3/4/2021	0.0062 (J)		0.0084 (J)	<0.03			
8/19/2021		0.0012 (J)			0.0038 (J)		<0.03
8/20/2021						0.0079 (J)	
8/26/2021			0.0082 (J)				
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	0.0061 (J)						
2/10/2022						0.0086 (J)	<0.03
2/11/2022		0.0014 (J)					
8/30/2022	0.0079 (J)						
8/31/2022		0.0012 (J)	0.0065 (J)	<0.03	0.0037 (J)	0.0074 (J)	<0.03
2/7/2023	0.0059 (J)		0.0065 (J)				
2/8/2023		0.0011 (J)		0.00074 (J)	0.0037 (J)		
2/9/2023						0.0075 (J)	<0.03
8/15/2023	0.0062 (J)		0.0064 (J)	<0.03	0.004 (J)		
8/16/2023		<0.03					
8/17/2023						0.0077 (J)	<0.03
2/20/2024	0.0062 (J)	<0.03	0.0059 (J)	<0.03	0.0036 (J)		
2/22/2024						0.0078 (J)	<0.03
8/20/2024	0.0057 (J)	<0.03			0.0036 (J)		
8/21/2024			0.0055 (J)	<0.03		0.0072 (J)	<0.03
2/25/2025	0.0067 (J)	0.00127 (J)	0.00608 (J)	0.000836 (J)	0.00393 (J)		
2/27/2025						0.008 (J)	<0.03

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
6/8/2016	0.0067	<0.03			
6/9/2016			0.0073	<0.03	0.0075
8/1/2016	0.008 (J)	<0.03			
8/2/2016			0.0073 (J)	<0.03	0.0078 (J)
9/20/2016	0.0111 (J)	<0.03			
9/21/2016			0.0067 (J)	<0.03	0.0074 (J)
11/7/2016	0.0097 (J)	<0.03		<0.03	0.0057 (J)
11/8/2016			0.0072 (J)		
1/18/2017	0.01 (J)		0.0067 (J)	<0.03	
1/19/2017		<0.03			0.0055 (J)
2/21/2017				<0.03	
2/22/2017		<0.03	0.0064 (J)		0.0063 (J)
2/23/2017	0.0099 (J)				
5/5/2017			0.007 (J)	<0.03	
5/8/2017	0.0086 (J)	<0.03			0.0066 (J)
6/30/2017	0.0108 (J)	<0.03			
7/5/2017			0.0072 (J)		0.0058 (J)
7/7/2017				<0.03	
3/29/2018	0.011 (J)	<0.03			0.0049 (J)
3/30/2018			0.007 (J)	<0.03	
6/11/2018					0.0064 (J)
6/12/2018		<0.03	0.0073 (J)	<0.03	
6/13/2018	0.014 (J)				
10/2/2018	0.012 (J)	<0.03			0.006 (J)
10/3/2018			0.0069 (J)	<0.03	
2/27/2019	0.0096 (J)	<0.03	0.0063 (J)	<0.03	0.0053 (J)
4/1/2019	0.0082 (J)	<0.03	0.0065 (J)		0.0052 (J)
4/2/2019				<0.03	
9/25/2019					0.0057 (J)
9/26/2019	0.0075 (J)	<0.03	0.0064 (J)	<0.03	
2/13/2020	0.0079 (J)	<0.03	0.0069 (J)	<0.03	0.0057 (J)
3/19/2020			0.007 (J)	<0.03	
3/20/2020	0.0091 (J)	<0.03			0.0051 (J)
9/24/2020	0.0075 (J)	<0.03	0.0065 (J)	<0.03	0.005 (J)
2/10/2021	0.0067 (J)	0.00081 (J)			
2/11/2021			0.007 (J)		
2/12/2021				0.0053 (J)	<0.03
3/3/2021	0.0066 (J)	<0.03	0.0063 (J)	<0.03	0.0054 (J)
8/20/2021	0.0066 (J)	0.0013 (J)	0.0072 (J)	<0.03	0.0056 (J)
2/8/2022		<0.03	0.0076 (J)	<0.03	0.0064 (J)
2/10/2022	0.0072 (J)				
9/1/2022	0.0069 (J)	<0.03	0.0066 (J)	<0.03	0.0051 (J)
2/8/2023					0.012 (J)
2/9/2023	0.0069 (J)	<0.03	0.0066 (J)	<0.03	
8/2/2023					0.013 (J)
8/16/2023			0.0058 (J)	<0.03	
8/17/2023	0.0067 (J)	<0.03			
2/21/2024	0.007 (J)	<0.03	0.0056 (J)	<0.03	
2/22/2024					0.0051 (J)
8/21/2024	0.0068 (J)				
8/22/2024		<0.03	0.006 (J)	<0.03	0.0044 (J)
2/26/2025	0.00778 (J)		0.00668 (J)	<0.03	0.00486 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
2/27/2025		<0.03			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (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
7/21/2016	<0.0002						
7/25/2016			<0.0002			<0.0002	
7/26/2016		<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
9/15/2016					<0.0002		
11/1/2016		<0.0002			<0.0002	<0.0002	
11/2/2016							<0.0002
11/4/2016			<0.0002	<0.0002			
11/28/2016	<0.0002						
12/15/2016				<0.0002			
1/11/2017		<0.0002			<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)
4/26/2017					<0.0002	<0.0002	
4/27/2017		<0.0002	<0.0002				
4/28/2017				<0.0002			
5/1/2017							<0.0002
5/8/2017	<0.0002						
5/26/2017				<0.0002			
6/27/2017		<0.0002	<0.0002				
6/28/2017				<0.0002	<0.0002	<0.0002	
6/29/2017							<0.0002
7/17/2017	<0.0002						
10/16/2017	<0.0002						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)
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
8/6/2018	<0.0002						
9/26/2018							<0.0002
2/25/2019	7.4E-05 (J)						
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
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
5/6/2020	<0.0002						
8/26/2020	<0.0002						
9/22/2020	<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						
3/3/2021							<0.0002
8/20/2021	<0.0002						
8/26/2021							<0.0002
2/8/2022	<0.0002						
2/9/2022		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
2/11/2022							<0.0002
8/30/2022	<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			
2/8/2023					<0.0002	<0.0002	
2/9/2023							<0.0002
8/15/2023	<0.0002	0.00015 (J)	0.00015 (J)	0.00015 (J)	0.00014 (J)		0.00013 (J)
8/16/2023						<0.0002	
2/20/2024	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/20/2024		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/25/2025		<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 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/2/2016	<0.0002	<0.0002	<0.0002				
6/6/2016					7.4E-05 (J)	7.6E-05 (J)	
6/7/2016				9.5E-05 (J)			9.6E-05 (J)
7/26/2016	<0.0002	<0.0002	<0.0002				
7/27/2016				<0.0002	<0.0002	<0.0002	<0.0002
9/14/2016	<0.0002	<0.0002					
9/15/2016			<0.0002				
9/16/2016				<0.0002		<0.0002	
9/19/2016					<0.0002		<0.0002
11/2/2016	<0.0002		<0.0002				<0.0002
11/3/2016				<0.0002	<0.0002	<0.0002	
11/4/2016		<0.0002					
1/10/2017			<0.0002				
1/11/2017				<0.0002	<0.0002	<0.0002	
1/12/2017	<0.0002	<0.0002					
1/13/2017							<0.0002
3/1/2017					<0.0002	<0.0002	
3/2/2017				<0.0002			
3/6/2017							0.00014 (J)
3/7/2017	0.0001 (J)	0.00013 (J)					
3/8/2017			0.00012 (J)				
4/26/2017			<0.0002		<0.0002	<0.0002	<0.0002
5/1/2017	<0.0002						
5/2/2017		<0.0002		<0.0002			
6/27/2017	<0.0002	<0.0002					
6/28/2017					<0.0002	<0.0002	
6/29/2017				<0.0002			5.3E-05 (J)
6/30/2017			<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
9/25/2018				<0.0002	<0.0002	<0.0002	<0.0002
9/26/2018	<0.0002	<0.0002					
2/26/2019			6.1E-05 (J)				
3/4/2019	<0.0002	<0.0002					
3/5/2019				<0.0002		<0.0002	<0.0002
3/6/2019					<0.0002		
3/29/2019			<0.0002				
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
2/8/2021	<0.0002	<0.0002					
2/9/2021				<0.0002	<0.0002	<0.0002	<0.0002
2/10/2021			<0.0002				
3/2/2021	<0.0002	<0.0002					
3/3/2021				<0.0002	<0.0002	<0.0002	<0.0002
8/26/2021	<0.0002	<0.0002				<0.0002	
8/27/2021				<0.0002	<0.0002		<0.0002
2/9/2022				<0.0002	<0.0002	<0.0002	<0.0002
2/10/2022	<0.0002	<0.0002	<0.0002				
8/30/2022	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	
8/31/2022			<0.0002				<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
2/7/2023	<0.0002			0.00018 (J)	0.00013 (J)	0.00017 (J)	0.00015 (J)
2/8/2023			<0.0002				
2/9/2023		<0.0002					
8/15/2023	0.00015 (J)	0.00014 (J)	0.00016 (J)	<0.0002	0.00014 (J)	0.00015 (J)	<0.0002
2/20/2024	<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
8/21/2024						<0.0002	
2/25/2025	<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 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWC-26I	YGWC-26S
6/2/2016		<0.0002					
6/7/2016	9.6E-05 (J)						
6/8/2016						<0.0002	<0.0002
7/25/2016		<0.0002					
7/28/2016	<0.0002						
8/1/2016						<0.0002	<0.0002
8/30/2016					<0.0002		
9/19/2016	<0.0002	<0.0002					
9/20/2016						<0.0002	<0.0002
11/1/2016		<0.0002					
11/3/2016	<0.0002						
11/7/2016						<0.0002	<0.0002
11/14/2016					<0.0002		
1/13/2017	<0.0002						
1/16/2017		<0.0002					
1/18/2017						<0.0002	<0.0002
2/21/2017		<0.0002				<0.0002	<0.0002
2/24/2017					<0.0002		
3/6/2017	0.00014 (J)						
4/26/2017	<0.0002	<0.0002					
5/3/2017							<0.0002
5/8/2017					<0.0002	<0.0002	
6/29/2017	<0.0002						
6/30/2017		6E-05 (J)					
7/10/2017						<0.0002	<0.0002
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				
2/19/2018				<0.0002			
2/20/2018			<0.0002				
3/27/2018		<0.0002					
3/29/2018	<0.0002						
3/30/2018						<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						
2/26/2019		6.8E-05 (J)					
2/27/2019						5.1E-05 (J)	4.9E-05 (J)
3/5/2019	<0.0002						
4/1/2019		8.2E-05 (J)					
4/2/2019						5.1E-05 (J)	6.6E-05 (J)
8/20/2019					<0.0002		
8/21/2019			<0.0002	<0.0002			
9/25/2019		<0.0002				<0.0002	<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWC-26I	YGWC-26S
2/12/2020	<0.0002	<0.0002	<0.0002	<0.0002			
2/13/2020						<0.0002	<0.0002
8/27/2020					<0.0002		
2/9/2021	<0.0002						
2/10/2021			<0.0002	<0.0002		<0.0002	<0.0002
2/11/2021		<0.0002					
3/4/2021	<0.0002		<0.0002	<0.0002			
8/19/2021					<0.0002		
8/26/2021			<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						
2/10/2022						<0.0002	<0.0002
2/11/2022		<0.0002					
8/30/2022	<0.0002						
8/31/2022		<0.0002	<0.0002	0.00064	<0.0002	<0.0002	<0.0002
2/7/2023	0.00017 (J)		<0.0002				
2/8/2023		<0.0002		<0.0002	<0.0002		
2/9/2023						<0.0002	<0.0002
8/15/2023	<0.0002		<0.0002	0.00037	0.00014 (J)		
8/16/2023		<0.0002					
8/17/2023						<0.0002	<0.0002
2/20/2024	<0.0002	<0.0002	<0.0002	0.00032	<0.0002		
2/22/2024						<0.0002	<0.0002
8/20/2024	<0.0002	<0.0002			<0.0002		
8/21/2024			<0.0002	0.00033		<0.0002	<0.0002
2/25/2025	<0.0002	<0.0002	<0.0002	0.00034	<0.0002		
2/27/2025						<0.0002	<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
6/8/2016	<0.0002	<0.0002			
6/9/2016			7.8E-05 (J)	8.1E-05 (J)	8.1E-05 (J)
8/1/2016	<0.0002	<0.0002			
8/2/2016			<0.0002	<0.0002	<0.0002
9/20/2016	<0.0002	<0.0002			
9/21/2016			<0.0002	<0.0002	<0.0002
11/7/2016	<0.0002	<0.0002		<0.0002	<0.0002
11/8/2016			<0.0002		
1/18/2017	<0.0002		<0.0002	<0.0002	
1/19/2017		<0.0002			<0.0002
2/21/2017				<0.0002	
2/22/2017		<0.0002	<0.0002		<0.0002
2/23/2017	<0.0002				
5/5/2017			<0.0002	<0.0002	
5/8/2017	<0.0002	<0.0002			<0.0002
6/30/2017	6E-05 (J)	0.0001 (J)			
7/5/2017			<0.0002		<0.0002
7/7/2017				<0.0002	
3/29/2018	<0.0002	<0.0002			<0.0002
3/30/2018			<0.0002	<0.0002	
2/27/2019	5.4E-05 (J)	4.9E-05 (J)	4.8E-05 (J)	5.2E-05 (J)	4.7E-05 (J)
4/1/2019	4.5E-05 (J)	4.1E-05 (J)	<0.0002		3.9E-05 (J)
4/2/2019				<0.0002	
9/25/2019					<0.0002
9/26/2019	<0.0002	<0.0002	<0.0002	<0.0002	
2/13/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/10/2021	<0.0002	<0.0002			
2/11/2021			<0.0002		
2/12/2021				<0.0002	<0.0002
2/8/2022		<0.0002	<0.0002	<0.0002	<0.0002
2/10/2022	<0.0002				
9/1/2022	<0.0002	0.00019 (J)	<0.0002	<0.0002	<0.0002
2/8/2023					<0.0002
2/9/2023	<0.0002	<0.0002	<0.0002	<0.0002	
8/2/2023					<0.0002
8/16/2023			<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
8/21/2024	<0.0002				
8/22/2024		<0.0002	<0.0002	<0.0002	<0.0002
2/26/2025	<0.0002		<0.0002	<0.0002	<0.0002
2/27/2025		<0.0002			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)
6/1/2016		0.014 (J)	0.012 (J)			0.0055 (J)	
6/2/2016					0.0093 (J)		<0.01
7/25/2016			0.0098 (J)			0.0037 (J)	
7/26/2016		0.0132			0.0113		<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
9/15/2016					0.0112		
11/1/2016		0.0092 (J)			0.0099 (J)	0.0025 (J)	
11/2/2016							<0.01
11/4/2016			0.01	0.0077 (J)			
11/28/2016	<0.01						
12/15/2016				0.0066 (J)			
1/11/2017		0.0093 (J)			0.0093 (J)	0.0033 (J)	
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
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
5/8/2017	<0.01						
5/26/2017				0.0029 (J)			
6/27/2017		0.0097 (J)	0.0093 (J)				
6/28/2017				0.0036 (J)	0.0102	0.008 (J)	
6/29/2017							<0.01
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
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)	
2/27/2019		0.0087 (J)	0.0078 (J)	0.0041 (J)	0.011	0.0027 (J)	
3/4/2019							<0.01
3/28/2019		0.0092 (J)	0.0082 (J)				
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)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)
2/12/2020					0.013		<0.01
3/18/2020			0.0056 (J)				
3/19/2020		0.0088 (J)		0.0046 (J)	0.013	0.0043 (J)	
3/25/2020							<0.01
8/26/2020	<0.01						
9/22/2020							<0.01
9/23/2020		0.008 (J)	0.0059 (J)	0.0071 (J)	0.012	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)				
3/3/2021		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
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)	
2/11/2022							<0.01
8/30/2022	<0.01	0.0094 (J)		0.0068 (J)			
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)			
2/8/2023					0.012	0.0065 (J)	
2/9/2023							<0.01
8/15/2023	<0.01	0.0098 (J)	0.0047 (J)	0.0071 (J)	0.012		<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
8/20/2024		0.01	0.0039 (J)	0.011	0.012	0.0058 (J)	<0.01
2/25/2025		0.01	0.0032 (J)	0.0069 (J)	0.017	0.0086 (J)	<0.01

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/2/2016	0.0035 (J)	<0.01	<0.01				
6/6/2016					<0.01	<0.01	
6/7/2016				<0.01			<0.01
7/26/2016	0.0042 (J)	<0.01	<0.01				
7/27/2016				<0.01	<0.01	<0.01	<0.01
9/14/2016	0.0041 (J)	<0.01					
9/15/2016			<0.01				
9/16/2016				<0.01		<0.01	
9/19/2016					<0.01		<0.01
11/2/2016	0.0039 (J)		<0.01				<0.01
11/3/2016				<0.01	<0.01	<0.01	
11/4/2016		<0.01					
1/10/2017			<0.01				
1/11/2017				<0.01	<0.01	<0.01	
1/12/2017	0.0041 (J)	<0.01					
1/13/2017							<0.01
3/1/2017					<0.01	<0.01	
3/2/2017				<0.01			
3/6/2017							<0.01
3/7/2017	0.0047 (J)	<0.01					
3/8/2017			<0.01				
4/26/2017			<0.01		<0.01	<0.01	<0.01
5/1/2017	0.0045 (J)						
5/2/2017		<0.01		<0.01			
6/27/2017	0.004 (J)	<0.01					
6/28/2017					<0.01	<0.01	
6/29/2017				<0.01			<0.01
6/30/2017			<0.01				
3/27/2018			<0.01				
3/28/2018				<0.01	<0.01	<0.01	
3/29/2018	<0.01	<0.01					<0.01
6/8/2018			<0.01				
10/1/2018			<0.01				
2/26/2019			<0.01				
3/4/2019	<0.01	<0.01					
3/5/2019				<0.01		<0.01	<0.01
3/6/2019					<0.01		
3/29/2019			<0.01				
9/25/2019			<0.01				
2/11/2020				<0.01	<0.01	<0.01	
2/12/2020	0.0011 (J)	<0.01	<0.01				<0.01
3/18/2020			<0.01				
3/24/2020	0.0011 (J)	<0.01		<0.01	<0.01	<0.01	<0.01
9/22/2020	0.00099 (J)	<0.01					
9/23/2020				<0.01	<0.01	<0.01	
9/24/2020							<0.01
9/25/2020			<0.01				
2/8/2021	0.0011 (J)	<0.01					
2/9/2021				<0.01	<0.01	<0.01	<0.01
2/10/2021			<0.01				
3/2/2021	<0.01	<0.01	<0.01				
3/3/2021				<0.01	<0.01	<0.01	<0.01

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
8/19/2021			<0.01				
8/26/2021	0.001 (J)	<0.01				<0.01	
8/27/2021				<0.01	<0.01		<0.01
2/9/2022				<0.01	<0.01	<0.01	<0.01
2/10/2022	0.00096 (J)	<0.01	<0.01				
8/30/2022	0.00089 (J)	<0.01		<0.01	<0.01	<0.01	
8/31/2022			<0.01				<0.01
2/7/2023	0.00095 (J)			<0.01	<0.01	<0.01	<0.01
2/8/2023			<0.01				
2/9/2023		<0.01					
8/15/2023	0.0009 (J)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2/20/2024	0.001 (J)	<0.01		<0.01	<0.01		<0.01
2/23/2024			<0.01			<0.01	
8/20/2024	0.00074 (J)	<0.01	<0.01	<0.01	<0.01		<0.01
8/21/2024						<0.01	
2/25/2025	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWC-26I	YGWC-26S
6/2/2016		<0.01					
6/7/2016	<0.01						
6/8/2016						<0.01	<0.01
7/25/2016		<0.01					
7/28/2016	<0.01						
8/1/2016						<0.01	<0.01
8/30/2016					<0.01		
9/19/2016	<0.01	<0.01					
9/20/2016						<0.01	<0.01
11/1/2016		<0.01					
11/3/2016	<0.01						
11/7/2016						<0.01	<0.01
11/14/2016					<0.01		
1/13/2017	<0.01						
1/16/2017		<0.01					
1/18/2017						<0.01	<0.01
2/21/2017		<0.01				<0.01	<0.01
2/24/2017					<0.01		
3/6/2017	0.0007 (J)						
4/26/2017	0.0008 (J)	<0.01					
5/3/2017							<0.01
5/8/2017					<0.01	<0.01	
6/29/2017	<0.01						
6/30/2017		<0.01					
7/10/2017						<0.01	<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)				
2/19/2018				<0.01			
2/20/2018			<0.01				
3/27/2018		<0.01					
3/29/2018	<0.01						
3/30/2018						<0.01	<0.01
4/2/2018					<0.01		
4/3/2018			0.006 (J)	<0.01			
6/11/2018		<0.01					
6/13/2018						<0.01	<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				<0.01	<0.01
2/26/2019		<0.01					
2/27/2019						<0.01	<0.01
3/5/2019	<0.01						
4/1/2019		<0.01					
4/2/2019						<0.01	<0.01
8/20/2019					<0.01		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWC-26I	YGWC-26S
8/21/2019			0.0021 (J)	<0.01			
9/25/2019		<0.01				<0.01	<0.01
10/8/2019					<0.01		
10/9/2019			0.0018 (J)	<0.01			
2/12/2020	<0.01	<0.01	0.0025 (J)	<0.01			
2/13/2020						<0.01	<0.01
3/17/2020					<0.01		
3/19/2020		<0.01					<0.01
3/20/2020						<0.01	
3/24/2020	<0.01			<0.01			
3/25/2020			0.002 (J)				
8/27/2020					<0.01		
9/22/2020					<0.01		
9/24/2020	<0.01	<0.01	0.0016 (J)	<0.01		<0.01	<0.01
2/9/2021	<0.01						
2/10/2021			0.0013 (J)	<0.01		<0.01	<0.01
2/11/2021		<0.01					
3/1/2021		<0.01			<0.01		
3/2/2021							<0.01
3/3/2021						<0.01	
3/4/2021	<0.01		0.0014 (J)	<0.01			
8/19/2021		<0.01			<0.01		<0.01
8/20/2021						<0.01	
8/26/2021			0.0027 (J)				
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						
2/10/2022						<0.01	<0.01
2/11/2022		<0.01					
8/30/2022	<0.01						
8/31/2022		<0.01	0.0036 (J)	<0.01	<0.01	<0.01	<0.01
2/7/2023	<0.01		0.0045 (J)				
2/8/2023		<0.01		<0.01	<0.01		
2/9/2023						<0.01	<0.01
8/15/2023	<0.01		0.0061 (J)	<0.01	<0.01		
8/16/2023		<0.01					
8/17/2023						<0.01	<0.01
2/20/2024	<0.01	<0.01	0.0058 (J)	<0.01	<0.01		
2/22/2024						<0.01	<0.01
8/20/2024	<0.01	<0.01			<0.01		
8/21/2024			0.0068 (J)	<0.01		<0.01	<0.01
2/25/2025	<0.01	<0.01	0.0056 (J)	<0.01	<0.01		
2/27/2025						<0.01	<0.01

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
6/8/2016	0.0011 (J)	<0.01			
6/9/2016			0.0011 (J)	<0.01	<0.01
8/1/2016	0.0018 (J)	<0.01			
8/2/2016			0.0014 (J)	0.0006 (J)	<0.01
9/20/2016	<0.01	<0.01			
9/21/2016			<0.01	<0.01	<0.01
11/7/2016	<0.01	<0.01		<0.01	<0.01
11/8/2016			<0.01		
1/18/2017	<0.01		<0.01	<0.01	
1/19/2017		<0.01			<0.01
2/21/2017				<0.01	
2/22/2017		<0.01	<0.01		<0.01
2/23/2017	<0.01				
5/5/2017			0.0014 (J)	0.0007 (J)	
5/8/2017	0.0011 (J)	<0.01			<0.01
6/30/2017	<0.01	<0.01			
7/5/2017			0.0014 (J)		<0.01
7/7/2017				<0.01	
3/29/2018	<0.01	<0.01			<0.01
3/30/2018			<0.01	<0.01	
6/11/2018					<0.01
6/12/2018		<0.01	<0.01	<0.01	
6/13/2018	<0.01				
10/2/2018	<0.01	<0.01			<0.01
10/3/2018			<0.01	<0.01	
2/27/2019	<0.01	<0.01	<0.01	<0.01	<0.01
4/1/2019	<0.01	<0.01	<0.01		<0.01
4/2/2019				<0.01	
9/25/2019					<0.01
9/26/2019	0.0013 (J)	<0.01	0.0013 (J)	<0.01	
2/13/2020	0.0014 (J)	<0.01	0.0013 (J)	<0.01	<0.01
3/19/2020			0.0014 (J)	<0.01	
3/20/2020	0.0014 (J)	<0.01			<0.01
9/24/2020	0.0015 (J)	<0.01	0.0012 (J)	0.00075 (J)	<0.01
2/10/2021	0.0016 (J)	<0.01			
2/11/2021			0.0012 (J)		
2/12/2021				<0.01	0.00083 (J)
3/3/2021	0.0017 (J)	<0.01	0.0011 (J)	0.00083 (J)	<0.01
8/20/2021	0.0042 (J)	<0.01	0.001 (J)	<0.01	<0.01
2/8/2022		<0.01	0.0011 (J)	0.00082 (J)	<0.01
2/10/2022	0.0018 (J)				
9/1/2022	0.0016 (J)	<0.01	0.001 (J)	<0.01	<0.01
2/8/2023					0.00099 (J)
2/9/2023	0.0019 (J)	<0.01	0.0014 (J)	0.00083 (J)	
8/2/2023					<0.01
8/16/2023			0.0016 (J)	0.00077 (J)	
8/17/2023	0.0016 (J)	<0.01			
2/21/2024	0.0015 (J)	<0.01	0.0013 (J)	0.00068 (J)	
2/22/2024					<0.01
8/21/2024	0.0016 (J)				
8/22/2024		<0.01	0.0015 (J)	0.00063 (J)	<0.01
2/26/2025	<0.01		<0.01	<0.01	<0.01

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
2/27/2025		<0.01			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: pH, Field (SU) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (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
7/25/2016			6.21			7.74	
7/26/2016		7.43			7.88		6.22
8/31/2016	6.32						
9/13/2016		7.44	6.16	7.41			
9/14/2016						7.65	6.23
9/15/2016					7.74		
11/1/2016		7.24			7.75	7.7	
11/2/2016							6.08
11/4/2016			6.29	7.12			
11/28/2016	6.23						
12/15/2016				7.24			
1/11/2017		7.3			7.66	7.53	
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
4/26/2017					7.45	7.4	
4/27/2017		6.99	6.09				
4/28/2017				7.21			
5/1/2017							6.21
5/8/2017	6.12						
5/26/2017				7.13			
6/27/2017		6.87	6.21				
6/28/2017				7.06	7.65	7.5	
6/29/2017							6.21
7/17/2017	6.03						
10/3/2017		6.81	5.98	6.99			
10/4/2017					7.49	7.45	
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

Time Series

Constituent: pH, Field (SU) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)
6/5/2018		7.16					
6/6/2018			6.17				
6/7/2018				7.29	7.69		6.12
6/8/2018						7.64	
8/6/2018	6.01						
9/26/2018							5.84
10/1/2018		6.8	5.9	7.07	7.39	7.47	
2/25/2019	6.51						
2/27/2019		6.84	5.8	7.27	7.55	7.54	
3/4/2019							6.18
3/28/2019		6.99	6.15				
3/29/2019				7.06			
4/1/2019					7.87	7.74	
4/3/2019							6.43
6/12/2019	6.3						
8/19/2019	6.23						
9/24/2019		7.07	6.23	7.01			
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
3/17/2020	6.14						
3/18/2020			6.19				
3/19/2020		7.03		7.22	7.65	7.31	
3/25/2020							6.26
5/6/2020	6.24						
8/26/2020	5.67						
9/22/2020	5.78						5.8
9/23/2020		7.15	6.01	7.22	7.57	7.37	
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						
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
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	
2/11/2022							5.95
8/30/2022	5.39	7.2		7.04			
8/31/2022			5.64		7.65	7.49	5.5
2/7/2023	5.94	7.86	6.53	6.94			
2/8/2023					7.88	7.73	
2/9/2023							6.23
8/15/2023	5.3	6.98	5.88	6.96	7.69		5.99
8/16/2023						7.39	
2/20/2024	6.07	7.06	6.42	7.23	7.81	7.59	6.21
8/20/2024		7.18	5.77	6.91	7.59	7.45	6.03
2/25/2025		7.18	6.02	7.14	7.79	7.55	5.98

Time Series

Constituent: pH, Field (SU) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/2/2016	7.67	5.75	5.46				
6/6/2016					6.17	5.71	
6/7/2016				5.62			5.77
7/26/2016	7.66	5.72	5.45				
7/27/2016				5.59	6.14	5.46	5.79
9/14/2016	7.6	5.74					
9/15/2016			5.45				
9/16/2016				5.58			
9/19/2016					6.04	5.59	5.73
11/2/2016	7.35		5.41				5.67
11/3/2016				5.59	5.97	5.39	
11/4/2016		5.61					
1/10/2017			5.37				
1/11/2017				5.59	6.05	5.48	
1/12/2017	7.49	5.71					
1/13/2017							5.79
3/1/2017					5.94	5.41	
3/2/2017				5.54			
3/6/2017							5.63
3/7/2017	7.43	5.66					
3/8/2017			5.41				
4/26/2017			5.02		5.99	5.4	5.66
5/1/2017	7.22						
5/2/2017		5.65		5.47			
6/27/2017	7.32	5.7					
6/28/2017					6	5.36	
6/29/2017				5.56			5.85
6/30/2017			5.39				
10/3/2017	7.48	5.79					
10/4/2017				5.57		5.32	5.83
10/5/2017			5.49		6.11		
3/27/2018			5.47				
3/28/2018				5.59	6.1	5.34	
3/29/2018	7.02	5.63					5.93
6/6/2018	7.43						5.86
6/7/2018		5.63			5.98		
6/8/2018			5.45				
6/11/2018				5.58		5.28	
9/25/2018				5.59	5.81	4.86	5.84
9/26/2018	7.13	5.63					
10/1/2018			5.39				
2/26/2019			5.46				
3/4/2019	7.46	5.75					
3/5/2019				5.48		5.26	6.07
3/6/2019					5.99		
3/29/2019			5.34				
4/2/2019				5.74			
4/3/2019	7.11	5.63			6.29	5.47	5.71
9/24/2019	6.93	5.6					
9/25/2019			5.19	5.49			5.86
9/26/2019					6.04	5.2	
2/11/2020				5.58	6.07	5.3	

Time Series

Constituent: pH, Field (SU) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
2/12/2020	7.52	5.83	5.48				6
3/18/2020			5.38				
3/24/2020	7.34	5.81		5.57	5.98	5.33	5.86
9/22/2020	7.19	5.99					
9/23/2020				5.58	6.01	5.29	
9/24/2020							5.8
9/25/2020			5.44				
2/8/2021	7.66	5.67					
2/9/2021				5.62	6.12	5.43	5.86
2/10/2021			5.35				
3/2/2021	7.15	5.63	5.49				
3/3/2021				5.52	5.89	5.31	5.89
8/19/2021			7.32				
8/26/2021	7.16	5.51				4.4	
8/27/2021				5.27	5.4		5.57
2/9/2022				5.53	5.98	5.28	5.91
2/10/2022	6.99	5.14	4.5				
8/30/2022	7.4	5		4.68	5.89	5.18	
8/31/2022			5.15				5.38
2/7/2023	6.64			5.47	6	5.03	5.63
2/8/2023			5.39				
2/9/2023		5.9					
8/15/2023	7.34	5.58	5.03	5.54	5.82	5.2	7
2/20/2024	7.56	5.78		5.64	6.11		5.99
2/23/2024			5.39			5.3	
8/20/2024	7.3	5.58	5.49	5.45	5.74		6
8/21/2024						5.29	
2/25/2025	7.4	5.77	5.16	5.59	6	6.26	6.07

Time Series

Constituent: pH, Field (SU) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWC-26I	YGWC-26S
6/2/2016		5.75					
6/7/2016	6.1						
6/8/2016						5.85	5.24
7/25/2016		5.82					
7/28/2016	6.12						
8/1/2016						5.83	5.17
8/30/2016					5.75		
9/19/2016	6.12	5.78					
9/20/2016						5.89	5.35
11/1/2016		5.62					
11/3/2016	6.07						
11/7/2016						5.91	5.35
11/14/2016					5.59		
1/13/2017	6.41						
1/16/2017		5.72					
1/18/2017						5.84	5.2
2/21/2017		5.67				5.79	5.14
2/24/2017					5.49		
3/6/2017	6.34						
4/26/2017	6.32	5.56					
5/3/2017							5.28
5/8/2017					5.58	5.84	
6/29/2017	6.47						
6/30/2017		5.72					
7/10/2017						5.92	5.25
7/11/2017					5.58		
10/3/2017	6.56						
10/4/2017		5.87					
10/10/2017					5.49	5.84	5.17
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				
2/19/2018				5.6			
2/20/2018			7.22				
3/27/2018		5.83					
3/29/2018	6.75						
3/30/2018						6.19	5.19
4/2/2018					6.3		
4/3/2018			6.87	5.84			
6/5/2018	6.09						
6/11/2018		5.69					
6/13/2018						5.82	5.12
6/28/2018			6.18	5.24			
8/7/2018			6.08	5.18			
9/19/2018					5.48		
9/24/2018			5.81	5.14			
9/25/2018	6.67						
10/2/2018		5.39				5.81	4.95
2/26/2019		5.77					
2/27/2019						5.79	5

Time Series

Constituent: pH, Field (SU) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWC-26I	YGWC-26S
3/5/2019	7.22						
3/26/2019				5.3			
3/27/2019			5.84		5.83		
4/1/2019		5.62					
4/2/2019	6.94					5.87	5.13
8/20/2019					5.58		
8/21/2019			5.96	5.26			
9/24/2019	6.87						
9/25/2019		5.69				5.79	5.24
10/8/2019					5.59		
10/9/2019			5.81	5.22			
2/12/2020	7.13	5.8	5.97	5.3			
2/13/2020						5.93	5.29
3/17/2020					5.57		
3/19/2020		6					5.46
3/20/2020						5.94	
3/24/2020	6.35			5.29			
3/25/2020			5.78				
8/27/2020					4.88		
9/22/2020					5.46		
9/24/2020	6.7	5.67	5.7	5.43		5.86	5.46
2/9/2021	6.95						
2/10/2021			5.8	5.19		5.96	5.18
2/11/2021		5.73					
3/1/2021		5.78			5.48		
3/2/2021							5.38
3/3/2021						5.93	
3/4/2021	6.8		5.54	5.23			
8/19/2021		5.43			5.5		5.12
8/20/2021						5.78	
8/26/2021			6.91				
9/1/2021	6.65						
9/3/2021				5.01			
2/8/2022			5.78	5.26	5.4		
2/9/2022	6.84						
2/10/2022						5.84	5.31
2/11/2022		5.59					
8/30/2022	6.58						
8/31/2022		5.87	5.3	4.53	5.32	5.77	5.61
2/7/2023	6.82		5.49				
2/8/2023		6.43		5.71	5.22		
2/9/2023						5.76	5.64
8/15/2023	6.84		5.78	5	5.69		
8/16/2023		5.55					
8/17/2023						5.77	5.38
2/20/2024	6.78	5.81	5.97	5.32	5.62		
2/22/2024						5.92	5.58
8/20/2024	6.6	6.07			5.48		
8/21/2024			6	5.38		6.31	6.17
2/25/2025	6.55	5.45	5.81	5.07	5.52		
2/27/2025						5.85	5.54

Time Series

Constituent: pH, Field (SU) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
6/8/2016	6.32	6.24			
6/9/2016			6.42	6.39	6.19
8/1/2016	6.34	6.12			
8/2/2016			6.43	6.35	6.17
9/20/2016	6.36	6.3			
9/21/2016			6.45	6.39	6.2
11/7/2016	6.3	6.25		6.36	6.1
11/8/2016			6.37		
1/18/2017	6.31		6.27	6.23	
1/19/2017		6.2			6.22
2/21/2017				6.42	
2/22/2017		6.14	6.35		6.12
2/23/2017	6.18				
5/5/2017			6.36	6.4	
5/8/2017	6.24	6.11			6.11
6/30/2017	6.21	6.17			
7/5/2017			6.4		6.17
7/7/2017				6.46	
10/5/2017			6.43		6.17
10/6/2017		6.13			
10/9/2017	6.26			6.37	
3/29/2018	6.36	6.25			6.09
3/30/2018			6.39	6.35	
6/11/2018					6.17
6/12/2018		6.22	6.42	6.47	
6/13/2018	6.28				
10/2/2018	5.9	5.99			6.17
10/3/2018			6.21	6.01	
2/27/2019	6.31	6.26	6.32	6.38	6.19
4/1/2019	6.43	6.4	6.3		6.03
4/2/2019				6.7	
9/25/2019					6.21
9/26/2019	6.3	6.22	6.43	6.47	
2/13/2020	6.4	6.31	6.49	6.53	6.32
3/19/2020			7.01	6.98	
3/20/2020	6.32	6.18			6.17
9/24/2020	6.36	6.27	6.41	6.53	6.2
2/10/2021	6.29	6.21			
2/11/2021			6.57		
2/12/2021				6.6	6.24
3/3/2021	6.43	6.35	6.51	6.61	6.27
8/20/2021	6.17	6.18	6.23	6.38	6.07
2/8/2022		6.22	6.36	6.3	5.88
2/10/2022	6.23				
9/1/2022	6.13	6.13	6.41	6.59	6.05
2/8/2023					6.67
2/9/2023	6.48	6.64	6.7	6.87	
8/2/2023					6.04
8/16/2023			6.3	6.36	
8/17/2023	6.2	6.06			
2/21/2024	6.43	6.26	6.43	6.49	
2/22/2024					6.01

Time Series

Constituent: pH, Field (SU) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
8/21/2024	7.28				
8/22/2024		6.27	6.19	6.23	5.86
2/26/2025	6.63		6.67	6.45	5.94
2/27/2025		6.23			

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (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
7/21/2016	<0.005						
7/25/2016			<0.005			<0.005	
7/26/2016		<0.005			<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
9/15/2016					<0.005		
11/1/2016		<0.005			<0.005	<0.005	
11/2/2016							<0.005
11/4/2016			<0.005	<0.005			
11/28/2016	<0.005						
12/15/2016				<0.005			
1/11/2017		<0.005			<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
4/26/2017					<0.005	<0.005	
4/27/2017		<0.005	<0.005				
4/28/2017				<0.005			
5/1/2017							<0.005
5/8/2017	<0.005						
5/26/2017				<0.005			
6/27/2017		<0.005	<0.005				
6/28/2017				<0.005	<0.005	<0.005	
6/29/2017							<0.005
7/17/2017	<0.005						
10/16/2017	<0.005						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)
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
6/7/2018							<0.005
8/6/2018	<0.005						
9/26/2018							<0.005
2/25/2019	<0.005						
2/27/2019		<0.005	<0.005	<0.005	<0.005	<0.005	
3/4/2019							<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
6/12/2019	<0.005						
8/19/2019	<0.005						
9/24/2019		<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
3/17/2020	<0.005						
3/18/2020			<0.005				
3/19/2020		<0.005		<0.005	<0.005	<0.005	
3/25/2020							<0.005
8/26/2020	<0.005						
9/22/2020	<0.005						<0.005
9/23/2020		<0.005	<0.005	<0.005	<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						
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
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	
2/11/2022							<0.005
8/30/2022	<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			
2/8/2023					<0.005	<0.005	
2/9/2023							<0.005
8/15/2023	<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
8/20/2024		<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

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/2/2016	<0.005	<0.005	0.0011 (J)				
6/6/2016					<0.005	<0.005	
6/7/2016				0.001 (J)			<0.005
7/26/2016	<0.005	0.0009 (J)	0.0016 (J)				
7/27/2016				0.0012 (J)	<0.005	<0.005	<0.005
9/14/2016	<0.005	<0.005					
9/15/2016			0.0014 (J)				
9/16/2016				0.0015 (J)		<0.005	
9/19/2016					<0.005		<0.005
11/2/2016	<0.005		<0.005				<0.005
11/3/2016				0.0015 (J)	<0.005	<0.005	
11/4/2016		<0.005					
1/10/2017			0.0012 (J)				
1/11/2017				0.0014 (J)	<0.005	<0.005	
1/12/2017	<0.005	<0.005					
1/13/2017							<0.005
3/1/2017					<0.005	<0.005	
3/2/2017				0.0017 (J)			
3/6/2017							<0.005
3/7/2017	<0.005	<0.005					
3/8/2017			<0.005				
4/26/2017			<0.005		<0.005	<0.005	<0.005
5/1/2017	<0.005						
5/2/2017		<0.005		<0.005			
6/27/2017	<0.005	<0.005					
6/28/2017					<0.005	<0.005	
6/29/2017				<0.005			<0.005
6/30/2017			<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
6/6/2018	<0.005						<0.005
6/7/2018		<0.005			<0.005		
6/11/2018				<0.005		<0.005	
9/25/2018				<0.005	<0.005	<0.005	<0.005
9/26/2018	<0.005	<0.005					
2/26/2019			<0.005				
3/4/2019	<0.005	<0.005					
3/5/2019				<0.005		<0.005	<0.005
3/6/2019					<0.005		
3/29/2019			0.0019 (J)				
4/2/2019				<0.005			
4/3/2019	<0.005	<0.005			<0.005	<0.005	<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	
2/11/2020				<0.005	<0.005	<0.005	
2/12/2020	<0.005	<0.005	<0.005				<0.005
3/18/2020			<0.005				
3/24/2020	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005
9/22/2020	<0.005	<0.005					
9/23/2020				<0.005	<0.005	<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
9/24/2020							<0.005
9/25/2020			<0.005				
2/8/2021	<0.005	<0.005					
2/9/2021				<0.005	<0.005	<0.005	<0.005
2/10/2021			<0.005				
3/2/2021	<0.005	<0.005	<0.005				
3/3/2021				<0.005	<0.005	<0.005	<0.005
8/19/2021			<0.005				
8/26/2021	<0.005	<0.005				<0.005	
8/27/2021				<0.005	<0.005		<0.005
2/9/2022				<0.005	<0.005	<0.005	<0.005
2/10/2022	<0.005	<0.005	0.0014 (J)				
8/30/2022	<0.005	<0.005		<0.005	<0.005	<0.005	
8/31/2022			<0.005				<0.005
2/7/2023	<0.005			<0.005	<0.005	<0.005	<0.005
2/8/2023			<0.005				
2/9/2023		<0.005					
8/15/2023	<0.005	<0.005	0.0014 (J)	<0.005	<0.005	<0.005	<0.005
2/20/2024	<0.005	<0.005		<0.005	<0.005		<0.005
2/23/2024			0.001 (J)			<0.005	
8/20/2024	<0.005	<0.005	0.0012 (J)	<0.005	<0.005		<0.005
8/21/2024						<0.005	
2/25/2025	<0.005	<0.005	0.0014 (J)	<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 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWC-26I	YGWC-26S
6/2/2016		<0.005					
6/7/2016	0.00048 (J)						
6/8/2016						0.0016	0.0003 (J)
7/25/2016		<0.005					
7/28/2016	<0.005						
8/1/2016						0.0023 (J)	0.0014 (J)
8/30/2016					0.0017 (J)		
9/19/2016	0.0014 (J)	<0.005					
9/20/2016						0.0022 (J)	<0.005
11/1/2016		<0.005					
11/3/2016	<0.005						
11/7/2016						0.0017 (J)	<0.005
11/14/2016					<0.005		
1/13/2017	<0.005						
1/16/2017		<0.005					
1/18/2017						0.002 (J)	0.0012 (J)
2/21/2017		<0.005				0.0018 (J)	0.0014 (J)
2/24/2017					0.0011 (J)		
3/6/2017	<0.005						
4/26/2017	<0.005	<0.005					
5/3/2017							<0.005
5/8/2017					<0.005	<0.01	
6/29/2017	<0.005						
6/30/2017		<0.005					
7/10/2017						0.002 (J)	<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				
2/19/2018				<0.005			
2/20/2018			<0.005				
3/27/2018		<0.005					
3/29/2018	<0.005						
3/30/2018						<0.01	<0.005
4/2/2018					<0.005		
4/3/2018			<0.005	<0.005			
6/5/2018	<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						
2/26/2019		<0.005					
2/27/2019						0.002 (J)	<0.005
3/5/2019	<0.005						
4/1/2019		<0.005					
4/2/2019	<0.005					0.0017 (J)	<0.005
8/20/2019					<0.005		
8/21/2019			<0.005	0.0024 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWC-26I	YGWC-26S
9/24/2019	<0.005						
9/25/2019		<0.005				0.0019 (J)	<0.005
10/9/2019			<0.005	0.0026 (J)			
2/12/2020	<0.005	<0.005	<0.005	0.002 (J)			
2/13/2020						0.0019 (J)	<0.005
3/19/2020		<0.005					<0.005
3/20/2020						0.0019 (J)	
3/24/2020	<0.005			0.002 (J)			
3/25/2020			<0.005				
8/27/2020					<0.005		
9/24/2020	<0.005	<0.005	<0.005	0.0016 (J)		0.0031 (J)	<0.005
2/9/2021	<0.005						
2/10/2021			<0.005	<0.005		0.0026 (J)	<0.005
2/11/2021		<0.005					
3/1/2021		<0.005					
3/2/2021							<0.005
3/3/2021						0.0034 (J)	
3/4/2021	<0.005		<0.005	<0.005			
8/19/2021		<0.005			<0.005		<0.005
8/20/2021						0.0026 (J)	
8/26/2021			<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						
2/10/2022						0.0042 (J)	<0.005
2/11/2022		<0.005					
8/30/2022	<0.005						
8/31/2022		<0.005	<0.005	<0.005	<0.005	0.0036 (J)	<0.005
2/7/2023	<0.005		<0.005				
2/8/2023		<0.005		<0.005	<0.005		
2/9/2023						0.0042 (J)	<0.005
8/15/2023	<0.005		<0.005	<0.005	<0.005		
8/16/2023		<0.005					
8/17/2023						0.0046 (J)	<0.005
2/20/2024	<0.005	<0.005	<0.005	<0.005	<0.005		
2/22/2024						0.0041 (J)	<0.005
8/20/2024	<0.005	<0.005			<0.005		
8/21/2024			<0.005	<0.005		0.0047 (J)	<0.005
2/25/2025	<0.005	<0.005	<0.005	<0.005	<0.005		
2/27/2025						0.0047 (J)	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
6/8/2016	<0.005	<0.005			
6/9/2016			<0.005	<0.005	<0.005
8/1/2016	<0.005	<0.005			
8/2/2016			<0.005	<0.005	<0.005
9/20/2016	<0.005	<0.005			
9/21/2016			<0.005	0.001 (J)	<0.005
11/7/2016	<0.005	<0.005		<0.005	<0.005
11/8/2016			<0.005		
1/18/2017	<0.005		<0.005	<0.005	
1/19/2017		<0.005			<0.005
2/21/2017				<0.005	
2/22/2017		<0.005	0.0012 (J)		<0.005
2/23/2017	<0.005				
5/5/2017			<0.005	<0.005	
5/8/2017	<0.005	<0.005			<0.005
6/30/2017	<0.005	<0.005			
7/5/2017			<0.005		<0.005
7/7/2017				<0.005	
3/29/2018	<0.005	<0.005			<0.005
3/30/2018			<0.005	<0.005	
2/27/2019	<0.005	<0.005	<0.005	<0.005	<0.005
4/1/2019	<0.005	<0.005	<0.005		<0.005
4/2/2019				<0.005	
9/25/2019					<0.005
9/26/2019	<0.005	<0.005	<0.005	<0.005	
2/13/2020	<0.005	<0.005	<0.005	<0.005	<0.005
3/19/2020			<0.005	<0.005	
3/20/2020	<0.005	<0.005			<0.005
9/24/2020	<0.005	<0.005	<0.005	<0.005	<0.005
2/10/2021	<0.005	<0.005			
2/11/2021			<0.005		
2/12/2021				<0.005	<0.005
3/3/2021	<0.005	<0.005	<0.005	<0.005	<0.005
8/20/2021	<0.005	<0.005	<0.005	<0.005	<0.005
2/8/2022		<0.005	<0.005	<0.005	<0.005
2/10/2022	<0.005				
9/1/2022	<0.005	<0.005	<0.005	<0.005	<0.005
2/8/2023					<0.005
2/9/2023	<0.005	<0.005	<0.005	<0.005	
8/2/2023					<0.005
8/16/2023			<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
8/21/2024	<0.005				
8/22/2024		<0.005	<0.005	<0.005	<0.005
2/26/2025	<0.005		<0.005	<0.005	<0.005
2/27/2025		<0.005			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)
6/1/2016		5	4.2			12	
6/2/2016					5.8		8
7/25/2016			3.7			8.4	
7/26/2016		5.4			6.7		7.7
8/31/2016	29						
9/13/2016		2.9	5.2				
9/14/2016				9.4		8.6	7.5
9/15/2016					6		
11/1/2016		3.9			4.9	8.9	
11/2/2016							8.2
11/4/2016			5	13			
11/28/2016	36						
12/15/2016				1.8			
1/11/2017		3.7			4.5	8.6	
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
4/26/2017					5.1	11	
4/27/2017		5.2	7.4				
4/28/2017				10			
5/1/2017							8.4
5/8/2017	60						
5/26/2017				12			
6/27/2017		5.9	6.4				
6/28/2017				11	5.4	12	
6/29/2017							9.2
7/17/2017	63						
10/3/2017		6.6	5.9	7.9			
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				
6/7/2018				8.8	6.7		8.5
6/8/2018						9.6	
8/6/2018	42.1						
9/26/2018							10.2
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			
4/1/2019					7.2	8.5	
4/3/2019							8.5
6/12/2019	83.4						
9/24/2019		5.3	4.3	9.1			
9/25/2019					7	13.8	8.5
10/8/2019	128						

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)
10/10/2019							9.2
3/17/2020	98.6						
3/18/2020			5.3				
3/19/2020		10		12.4	9	12.9	
3/25/2020							8.8
9/22/2020	145						8.2
9/23/2020		8.1	3.4	11.8	6.9	16.8	
3/2/2021	156						
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
8/27/2021				16.7		18.2	
2/8/2022	107						
2/9/2022		9.3	5.1	18	7.2	16	
2/11/2022							7.7
8/30/2022	101	10.2		20.1			
8/31/2022			4.8		6.9	13.9	8
2/7/2023	82.4	10.6	6.6	17.8			
2/8/2023					7.5	14.7	
2/9/2023							8.9
8/15/2023	74.2	9.6	4.6	17.2	6.8		7.5
8/16/2023						20.3	
2/20/2024	75	9.7	4.3	23.1	7	13.8	8.5
8/20/2024		12.2	4.9	21.3	7.7	13.7	8.7
2/25/2025		10.4	3.5	13.8	6.7	10.9	7.4

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/2/2016	20	1.9	6.6				
6/6/2016					1.2	1.8	
6/7/2016				4.4			<1
7/26/2016	20	1.8	6.1				
7/27/2016				4.7	1.7	1.9	0.08 (J)
9/14/2016	19	1.8					
9/15/2016			6.1				
9/16/2016				4.8		1.7	
9/19/2016					1.8		0.08 (J)
11/2/2016	20		6.3				0.1 (J)
11/3/2016				5.3	0.69 (J)	1.9	
11/4/2016		2					
1/10/2017			5.9				
1/11/2017				5.2	0.99 (J)	1.7	
1/12/2017	19	1.9					
1/13/2017							0.1 (J)
3/1/2017					1.8	1.6	
3/2/2017				5			
3/6/2017							<1
3/7/2017	20	2.1					
3/8/2017			7				
4/26/2017			7		1.6	1.9	<1
5/1/2017	20						
5/2/2017		2		5			
6/27/2017	18	2.1					
6/28/2017					1.7	1.5	
6/29/2017				5.2			0.15 (J)
6/30/2017			6.5				
10/3/2017	16	2.3					
10/4/2017				5.3		1.7	0.14 (J)
10/5/2017			7.9		1.6		
6/6/2018	8.3						0.049 (J)
6/7/2018		2			0.68 (J)		
6/8/2018			6.4				
6/11/2018				5.2		0.95 (J)	
9/25/2018				6.1	1	1.5	0.13 (J)
9/26/2018	7.9	2.3					
10/1/2018			6.8				
3/29/2019			7.3				
4/2/2019				5.1			
4/3/2019	7	2.1			0.82 (J)	1.3	0.12 (J)
9/24/2019	5.5	2.4					
9/25/2019			6.6	5.5			<1
9/26/2019					0.64 (J)	1	
10/10/2019	<1	1.8		5.5			0.058 (J)
3/18/2020			8.1				
3/24/2020	5.9	2.1		5.4	<1	0.99 (J)	<1
9/22/2020	5.5	2.1					
9/23/2020				5.1	0.53 (J)	1.1	
9/24/2020							<1
9/25/2020			6.1				
3/2/2021	2.6	2.3	6				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
3/3/2021				5.2	<1	1	<1
8/19/2021			6.7				
8/26/2021	6	2.4				1.2	
8/27/2021				5.3	0.59 (J)		<1
2/9/2022				4.8	0.51 (J)	1.1	<1
2/10/2022	4.9	2.4	6.2				
8/30/2022	5.7	2.4		4.7	0.78 (J)	1.3	
8/31/2022			5.8				<1
2/7/2023	5.2			4.9	0.78 (J)	1.2	<1
2/8/2023			6.1				
2/9/2023		2.9					
8/15/2023	4.8	2.2	6	4.6	0.51 (J)	0.88 (J)	<1
2/20/2024	5.1	2.5		4.6	<1		<1
2/23/2024			7.1			0.79 (J)	
8/20/2024	4.3	2.6	7.6	4.6	0.74 (J)		<1
8/21/2024						1.1	
2/25/2025	4.6	2.2	6.5	3.6	<1	0.59 (J)	<1

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWC-26I	YGWC-26S
6/2/2016		1.3					
6/7/2016	5.2						
6/8/2016						81	110
7/25/2016		1.2					
7/28/2016	5.1						
8/1/2016						75	96
8/30/2016					160		
9/19/2016	4.8	1.2					
9/20/2016						78	100
11/1/2016		1.3					
11/3/2016	5						
11/7/2016						81	100
11/14/2016					150		
1/13/2017	4.3						
1/16/2017		1.4					
1/18/2017						95	100
2/21/2017		1.4				80	96
2/24/2017					120		
3/6/2017	4.5						
4/26/2017	4.9	1.4					
5/3/2017							100
5/8/2017					120	84	
6/29/2017	5.5						
6/30/2017		1.5					
7/10/2017						84	100
7/11/2017					110		
10/3/2017	5.8						
10/4/2017		1.4					
10/10/2017					93	82	97
10/11/2017			20				
10/12/2017				17			
11/20/2017			24	71			
1/10/2018				66			
1/11/2018			23				
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						
6/11/2018		1.1					
6/13/2018						76.5	93.3
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	7						
10/2/2018		1				83.9	99
3/26/2019				34.3			
3/27/2019			17.7		65.9		
4/1/2019		0.96 (J)					
4/2/2019	3.8					77.6	94.5
9/24/2019	1						

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWC-26I	YGWC-26S
9/25/2019		0.81 (J)				80.1	97
10/8/2019					52.3		
10/9/2019			14.85 (D)	27.75 (D)			
10/10/2019	3.6						
3/17/2020					71.6		
3/19/2020		1.6					99.4
3/20/2020						84.7	
3/24/2020	3			25.2			
3/25/2020			14.3				
9/22/2020					51.5		
9/24/2020	3.6	0.69 (J)	11.7	22.9		85.6	92.3
3/1/2021		0.88 (J)			51.6		
3/2/2021							92.7
3/3/2021						89.3	
3/4/2021	4.5		12	21.5			
8/19/2021		1			52.6		86.5
8/20/2021						84	
8/26/2021			19.2				
9/1/2021	5						
9/3/2021				21.3			
2/8/2022			14.6	17.9	50.9		
2/9/2022	3.9						
2/10/2022						81.8	86.5
2/11/2022		2.8					
8/30/2022	3.2						
8/31/2022		1.1	10.9	17.9	48	85.9	90.2
2/7/2023	3.8		9.7				
2/8/2023		0.96 (J)		17.5	50.5		
2/9/2023						84.2	89.7
8/15/2023	4.1		7.6	16.4	47.7		
8/16/2023		0.9 (J)					
8/17/2023						81.1	85.7
2/20/2024	3.8	0.69 (J)	8.6	17.2	51		
2/22/2024						80.7	89.3
8/20/2024	4	0.74 (J)			53.9		
8/21/2024			6.6	18.2		83.5	90.9
2/25/2025	3.3	0.74 (J)	6.5	15.4	48.3		
2/27/2025						77.5	83.3

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
6/8/2016	3.2	26			
6/9/2016			8.7	5.2	33
8/1/2016	3.6	27			
8/2/2016			7.5	4.5	32
9/20/2016	5.6	21			
9/21/2016			8	4.1	32
11/7/2016	5.4	24		4.3	33
11/8/2016			8.3		
1/18/2017	3.5		8	2.7	
1/19/2017		25			32
2/21/2017				3	
2/22/2017		24	8.2		31
2/23/2017	4.9				
5/5/2017			8.4	4.7	
5/8/2017	3.9	23			32
6/30/2017	5	23			
7/5/2017			8.1		31
7/7/2017				2.7	
10/5/2017			8.6		31
10/6/2017		23			
10/9/2017	5.1			2.9	
6/11/2018					30.6
6/12/2018		18.1	8.2	2.9	
6/13/2018	6.1				
10/2/2018	6.1	20.2			30.8
10/3/2018			8	2.1	
4/1/2019	4.1	18.3	8.2		30.4
4/2/2019				2.4	
9/25/2019					30
9/26/2019	4.2	18.2	7.9	1.6	
3/19/2020			9.1	1.7	
3/20/2020	5.2	21.1			33
9/24/2020	3	16.6	7.2	0.99 (J)	26.2
3/3/2021	2.6	451 (o)	8.6	4.9	26.6
8/20/2021	2.9	18	8.9	5.4	24.7
2/8/2022		16.3	8.1	10.5	22.9
2/10/2022	2.4				
9/1/2022	2.5	13.5	7.6	13.4	21.2
2/8/2023					23.7
2/9/2023	3.2	13.7	7.4	16	
8/2/2023					22.9
8/16/2023			7.8	16.2	
8/17/2023	3.3	14.2			
2/21/2024	3.8	13	8.5	3.9	
2/22/2024					26.9
8/21/2024	4.2				
8/22/2024		15.7	9	5.5	39.7
2/26/2025	4		8.8	2	40.9
2/27/2025		12.4			

Time Series

Constituent: TDS (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)
6/1/2016		120	54			150	
6/2/2016					130		96
7/25/2016			48			135	
7/26/2016		94			141		92
8/31/2016	209						
9/13/2016		105	67				
9/14/2016				152		127	102
9/15/2016					153		
11/1/2016		44			92	75	
11/2/2016							115
11/4/2016			60	148			
11/28/2016	102						
12/15/2016				191			
1/11/2017		107			159	148	
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
4/26/2017					181	92	
4/27/2017		116	31				
4/28/2017				130			
5/1/2017							107
5/8/2017	145						
5/26/2017				223			
6/27/2017		89	42				
6/28/2017				166	169	126	
6/29/2017							79
7/17/2017	185						
10/3/2017		119	58	153			
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				
6/7/2018				146	95		90
6/8/2018						158	
8/6/2018	158						
9/26/2018							116
10/1/2018		117	60	155	165	138	
2/25/2019	92						
3/28/2019		87	87				
3/29/2019				150			
4/1/2019					149	19 (J)	
4/3/2019							111
6/12/2019	226						
9/24/2019		124	54	146			
9/25/2019					157	159	117
10/8/2019	276						

Time Series

Constituent: TDS (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)
3/17/2020	185						
3/18/2020			35				
3/19/2020		116		148	146	148	
3/25/2020							146
9/22/2020	281						83
9/23/2020		108	15	161	157	155	
3/2/2021	296						
3/3/2021		99	39	138	137	111	80
8/19/2021		105	44		144		
8/20/2021	254						
8/26/2021							93
8/27/2021				150		155	
2/8/2022	283						
2/9/2022		105	57	156	154	145	
2/11/2022							102
8/30/2022	244	116		153			
8/31/2022			46		141	137	92
2/7/2023	207	131	121	159			
2/8/2023					144	145	
2/9/2023							124
8/15/2023	230	121	65	157	231		99
8/16/2023						148	
2/20/2024	214	130	59	159	294	220	140
8/20/2024		140	67	184	164	179	128
2/25/2025		121	47	156	147	136	105

Time Series

Constituent: TDS (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/2/2016	160	66	46				
6/6/2016					120	58	
6/7/2016				28			38
7/26/2016	177	78	54				
7/27/2016				74	94	35	74
9/14/2016	187	73					
9/15/2016			54				
9/16/2016				67		35	
9/19/2016					92		45
11/2/2016	181		71				53
11/3/2016				41	104	48	
11/4/2016		75					
1/10/2017			45				
1/11/2017				104	133	95	
1/12/2017	202	86					
1/13/2017							46
3/1/2017					119	79	
3/2/2017				77			
3/6/2017							164
3/7/2017	257	108					
3/8/2017			178				
4/26/2017			52		162	36	34
5/1/2017	165						
5/2/2017		103		142			
6/27/2017	189	73					
6/28/2017					98	45	
6/29/2017				53			68
6/30/2017			45				
10/3/2017	170	89					
10/4/2017				61		45	54
10/5/2017			40		104		
6/6/2018	151						79
6/7/2018		142			68		
6/8/2018			114				
6/11/2018				70		74	
9/25/2018				86	109	63	73
9/26/2018	144	86					
10/1/2018			50				
3/29/2019			63				
4/2/2019				72			
4/3/2019	142	83			89	63	57
9/24/2019	129	79					
9/25/2019			64	81			75
9/26/2019					126	72	
3/18/2020			57				
3/24/2020	139	68		71	91	59	76
9/22/2020	104	75					
9/23/2020				99	103	81	
9/24/2020							69
9/25/2020			54				
3/2/2021	52	67	67				
3/3/2021				57	95	37	53

Time Series

Constituent: TDS (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
8/19/2021			54				
8/26/2021	123	86				31	
8/27/2021				93	112		67
2/9/2022				81	103	60	72
2/10/2022	127	77	56				
8/30/2022	148	86		81	100	52	
8/31/2022			51				62
2/7/2023	180			78	96	55	89
2/8/2023			56				
2/9/2023		59					
8/15/2023	219	76	69	74	96	81	62
2/20/2024	639 (O)	137		77	129		164
2/23/2024			64			52	
8/20/2024	212	108	81	86	128		75
8/21/2024						79	
2/25/2025	146	83	64	93	110	69	69

Time Series

Constituent: TDS (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWC-26I	YGWC-26S
6/2/2016		36					
6/7/2016	60						
6/8/2016						220	200
7/25/2016		50					
7/28/2016	81						
8/1/2016						211	191
8/30/2016					319		
9/19/2016	68	35					
9/20/2016						217	213
11/1/2016		<25					
11/3/2016	61						
11/7/2016						301	284
11/14/2016					280		
1/13/2017	76						
1/16/2017		47					
1/18/2017						265	158
2/21/2017		<25				158	137
2/24/2017					162		
3/6/2017	167						
4/26/2017	50	55					
5/3/2017							269
5/8/2017					194	207	
6/29/2017	94						
6/30/2017		42					
7/10/2017						219	183
7/11/2017					193		
10/3/2017	149						
10/4/2017		31					
10/10/2017					175	194	179
10/11/2017			68				
10/12/2017				74			
11/20/2017			139	179			
1/10/2018				140			
1/11/2018			153				
2/19/2018				119			
2/20/2018			87				
4/2/2018					192		
4/3/2018			85	106			
6/5/2018	109						
6/11/2018		59					
6/13/2018						228	196
6/28/2018			88	112			
8/7/2018			89	103			
9/19/2018					186		
9/24/2018			82	107			
9/25/2018	122						
10/2/2018		57				227	191
3/26/2019				90			
3/27/2019			75		170		
4/1/2019		54					
4/2/2019	134					223	224
9/24/2019	157						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: TDS (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWC-26I	YGWC-26S
9/25/2019		51				225	190
10/8/2019					172		
10/9/2019			119	98			
3/17/2020					165		
3/19/2020		47					194
3/20/2020						211	
3/24/2020	117			84			
3/25/2020			158				
9/22/2020					141		
9/24/2020	113	51	170	77		212	171
3/1/2021		23			145		
3/2/2021							154
3/3/2021						205	
3/4/2021	110		168	57			
8/19/2021		50			134		176
8/20/2021						224	
8/26/2021			249				
9/1/2021	137						
9/3/2021				88			
2/8/2022			248	93	151		
2/9/2022	131						
2/10/2022						207	168
2/11/2022		66					
8/30/2022	122						
8/31/2022		33	242	92	116	228	206
2/7/2023	163		224				
2/8/2023		43		115	141		
2/9/2023						366	196
8/15/2023	126		225	83	186		
8/16/2023		48					
8/17/2023						248	207
2/20/2024	156	55	233	109	159		
2/22/2024						215	188
8/20/2024	143	69			155		
8/21/2024			235	94		237	215
2/25/2025	110	51	228	86	147		
2/27/2025						213	181

Time Series

Constituent: TDS (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
6/8/2016	190	210			
6/9/2016			240	210	150
8/1/2016	191	209			
8/2/2016			226	202	155
9/20/2016	205	224			
9/21/2016			214	216	138
11/7/2016	264	291		399	291
11/8/2016			229		
1/18/2017	167		243	215	
1/19/2017		215			145
2/21/2017				198	
2/22/2017		262	310		185
2/23/2017	253				
5/5/2017			289	347	
5/8/2017	174	187			114
6/30/2017	193	209			
7/5/2017			217		136
7/7/2017				236	
10/5/2017			221		139
10/6/2017		183			
10/9/2017	185			204	
6/11/2018					156
6/12/2018		208	234	243	
6/13/2018	219				
10/2/2018	227	206			154
10/3/2018			232	237	
4/1/2019	198	221	238		147
4/2/2019				<25	
9/25/2019					162
9/26/2019	198	225	241	239	
3/19/2020			212	202	
3/20/2020	195	182			137
9/24/2020	186	185	209	226	133
3/3/2021	173	178	184	217	110
8/20/2021	196	169	194	192	110
2/8/2022		159	206	216	120
2/10/2022	190				
9/1/2022	193	124	186	225	128
2/8/2023					158
2/9/2023	189	116	184	226	
8/2/2023					152
8/16/2023			171	233	
8/17/2023	186	137			
2/21/2024	194	149	213	235	
2/22/2024					146
8/21/2024	184				
8/22/2024		130	193	226	154
2/26/2025	186		202	217	148
2/27/2025		133			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (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
7/21/2016	<0.001						
7/25/2016			<0.001			<0.001	
7/26/2016		<0.001			0.0001 (J)		<0.001
8/31/2016	<0.001						
9/13/2016		<0.001	<0.001				
9/14/2016				<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
11/4/2016			<0.001	<0.001			
11/28/2016	<0.001						
12/15/2016				<0.001			
1/11/2017		<0.001			<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
4/26/2017					<0.001	<0.001	
4/27/2017		<0.001	<0.001				
4/28/2017				<0.001			
5/1/2017							<0.001
5/8/2017	6E-05 (J)						
5/26/2017				<0.001			
6/27/2017		<0.001	<0.001				
6/28/2017				<0.001	<0.001	<0.001	
6/29/2017							<0.001
7/17/2017	6E-05 (J)						
10/16/2017	7E-05 (J)						
2/19/2018	<0.001						
3/27/2018			<0.001				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-4I (bg)
3/28/2018				<0.001	<0.001	<0.001	
3/29/2018		<0.001					<0.001
8/6/2018	<0.001						
2/25/2019	<0.001						
2/27/2019		<0.001	<0.001	<0.001	<0.001	<0.001	
3/4/2019							<0.001
4/3/2019							<0.001
6/12/2019	<0.001						
8/19/2019	5.5E-05 (J)						
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
3/17/2020	<0.001						
3/18/2020			<0.001				
3/19/2020		<0.001		<0.001	<0.001	<0.001	
3/25/2020							<0.001
8/26/2020	<0.001						
9/22/2020	<0.001						<0.001
9/23/2020		<0.001	<0.001	<0.001	<0.001	0.00016 (J)	
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	
2/11/2022							<0.001
8/30/2022	<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			
2/8/2023					<0.001	<0.001	
2/9/2023							<0.001
8/15/2023	<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
8/20/2024		<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

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/2/2016	<0.001	<0.001	<0.001				
6/6/2016					<0.001	<0.001	
6/7/2016				<0.001			<0.001
7/26/2016	<0.001	<0.001	<0.001				
7/27/2016				<0.001	<0.001	<0.001	<0.001
9/14/2016	<0.001	<0.001					
9/15/2016			<0.001				
9/16/2016				<0.001		<0.001	
9/19/2016					<0.001		<0.001
11/2/2016	<0.001		<0.001				<0.001
11/3/2016				<0.001	<0.001	<0.001	
11/4/2016		<0.001					
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
3/1/2017					<0.001	<0.001	
3/2/2017				<0.001			
3/6/2017							<0.001
3/7/2017	<0.001	<0.001					
3/8/2017			<0.001				
4/26/2017			<0.001		<0.001	<0.001	<0.001
5/1/2017	<0.001						
5/2/2017		<0.001		<0.001			
6/27/2017	<0.001	<0.001					
6/28/2017					<0.001	<0.001	
6/29/2017				<0.001			<0.001
6/30/2017			<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
2/26/2019			<0.001				
3/4/2019	<0.001	<0.001					
3/5/2019				<0.001		<0.001	<0.001
3/6/2019					<0.001		
4/2/2019				<0.001			
4/3/2019	<0.001	<0.001			<0.001	<0.001	<0.001
9/24/2019	<0.001	<0.001					
9/25/2019				<0.001			<0.001
9/26/2019					<0.001	<0.001	
2/11/2020				<0.001	<0.001	<0.001	
2/12/2020	<0.001	<0.001	8.9E-05 (J)				<0.001
3/18/2020			<0.001				
3/24/2020	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001
9/22/2020	<0.001	<0.001					
9/23/2020				<0.001	<0.001	<0.001	
9/24/2020							<0.001
9/25/2020			<0.001				
2/8/2021	<0.001	<0.001					
2/9/2021				<0.001	<0.001	<0.001	<0.001
2/10/2021			<0.001				
2/9/2022				<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 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
2/10/2022	<0.001	<0.001	<0.001				
8/30/2022	<0.001	<0.001		<0.001	<0.001	<0.001	
8/31/2022			<0.001				<0.001
2/7/2023	<0.001			<0.001	<0.001	<0.001	<0.001
2/8/2023			<0.001				
2/9/2023		<0.001					
8/15/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/20/2024	<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
8/21/2024						<0.001	
2/25/2025	<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: Thallium (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWC-26I	YGWC-26S
6/2/2016		<0.001					
6/7/2016	<0.001						
6/8/2016						<0.001	<0.001
7/25/2016		<0.001					
7/28/2016	<0.001						
8/1/2016						<0.001	<0.001
8/30/2016					<0.001		
9/19/2016	<0.001	<0.001					
9/20/2016						<0.001	<0.001
11/1/2016		<0.001					
11/3/2016	<0.001						
11/7/2016						<0.001	<0.001
11/14/2016					<0.001		
1/13/2017	<0.001						
1/16/2017		<0.001					
1/18/2017						<0.001	<0.001
2/21/2017		<0.001				<0.001	<0.001
2/24/2017					<0.001		
3/6/2017	<0.001						
4/26/2017	<0.001	<0.001					
5/3/2017							<0.001
5/8/2017					<0.001	<0.001	
6/29/2017	<0.001						
6/30/2017		<0.001					
7/10/2017						<0.001	<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				
2/19/2018				<0.001			
2/20/2018			<0.001				
3/27/2018		<0.001					
3/29/2018	<0.001						
3/30/2018						<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					
2/27/2019						<0.001	<0.001
3/5/2019	<0.001						
4/2/2019	<0.001						
8/20/2019					5.8E-05 (J)		
8/21/2019			<0.001	<0.001			
9/24/2019	<0.001						
10/8/2019					8.4E-05 (J)		
2/12/2020	<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 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-21I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWC-26I	YGWC-26S
2/13/2020						<0.001	5.7E-05 (J)
3/17/2020					<0.001		
3/19/2020		<0.001					5.5E-05 (J)
3/20/2020						<0.001	
3/24/2020	<0.001			<0.001			
3/25/2020			<0.001				
8/27/2020					<0.001		
9/24/2020	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001
2/9/2021	<0.001						
2/10/2021			<0.001	<0.001		<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						
2/10/2022						<0.001	<0.001
2/11/2022		<0.001					
8/30/2022	<0.001						
8/31/2022		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/7/2023	<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		
8/16/2023		<0.001					
8/17/2023						<0.001	<0.001
2/20/2024	<0.001	<0.001	<0.001	<0.001	<0.001		
2/22/2024						<0.001	<0.001
8/20/2024	<0.001	<0.001			<0.001		
8/21/2024			<0.001	<0.001		<0.001	<0.001
2/25/2025	<0.001	<0.001	<0.001	<0.001	<0.001		
2/27/2025						<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/21/2025 2:49 PM

Plant Yates Client: Southern Company Data: Yates AP-2

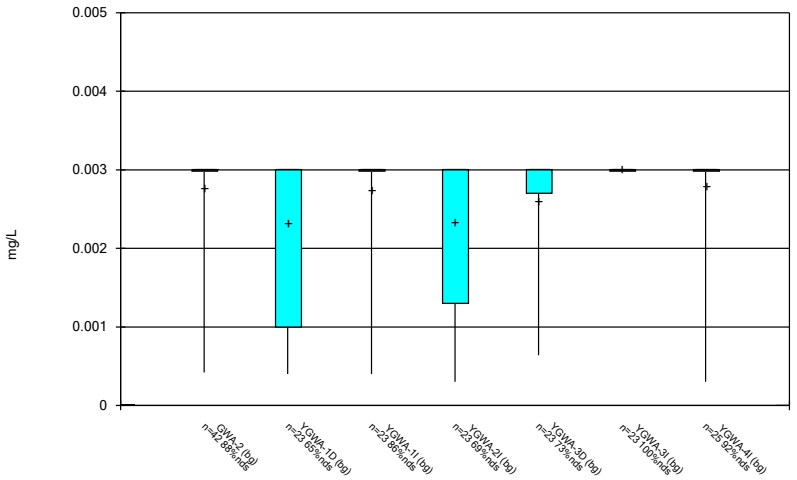
	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
6/8/2016	<0.001	0.00012 (J)			
6/9/2016			<0.001	<0.001	<0.001
8/1/2016	<0.001	0.0001 (J)			
8/2/2016			<0.001	<0.001	<0.001
9/20/2016	<0.001	<0.001			
9/21/2016			<0.001	<0.001	<0.001
11/7/2016	<0.001	<0.001		<0.001	<0.001
11/8/2016			<0.001		
1/18/2017	<0.001		<0.001	<0.001	
1/19/2017		<0.001			<0.001
2/21/2017				<0.001	
2/22/2017		<0.001	<0.001		<0.001
2/23/2017	<0.001				
5/5/2017			<0.001	<0.001	
5/8/2017	<0.001	0.0001 (J)			<0.001
6/30/2017	<0.001	0.0001 (J)			
7/5/2017			<0.001		<0.001
7/7/2017				<0.001	
3/29/2018	<0.001	<0.001			<0.001
3/30/2018			<0.001	<0.001	
2/27/2019	<0.001	<0.001	<0.001	<0.001	<0.001
2/13/2020	<0.001	0.0001 (J)	<0.001	<0.001	<0.001
3/19/2020			<0.001	<0.001	
3/20/2020	<0.001	0.00011 (J)			<0.001
9/24/2020	<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				<0.001	<0.001
2/8/2022		<0.001	<0.001	<0.001	<0.001
2/10/2022	<0.001				
9/1/2022	<0.001	<0.001	<0.001	<0.001	<0.001
2/8/2023					0.00021 (J)
2/9/2023	<0.001	<0.001	<0.001	<0.001	
8/2/2023					<0.001
8/16/2023			<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
8/21/2024	<0.001				
8/22/2024		<0.001	<0.001	<0.001	<0.001
2/26/2025	<0.001		<0.001	<0.001	<0.001
2/27/2025		<0.001			

ND substitution: RL or RL/2 if <15% NDs.

FIGURE B.

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

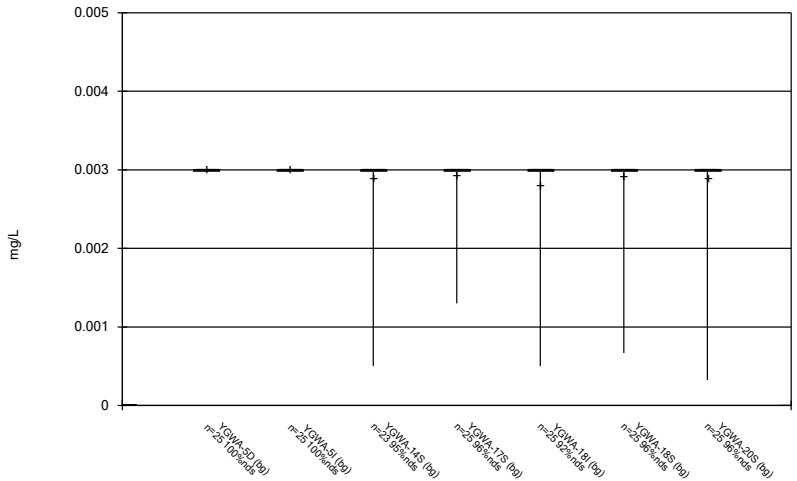
Box & Whiskers Plot



Constituent: Antimony Analysis Run 5/21/2025 2:50 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

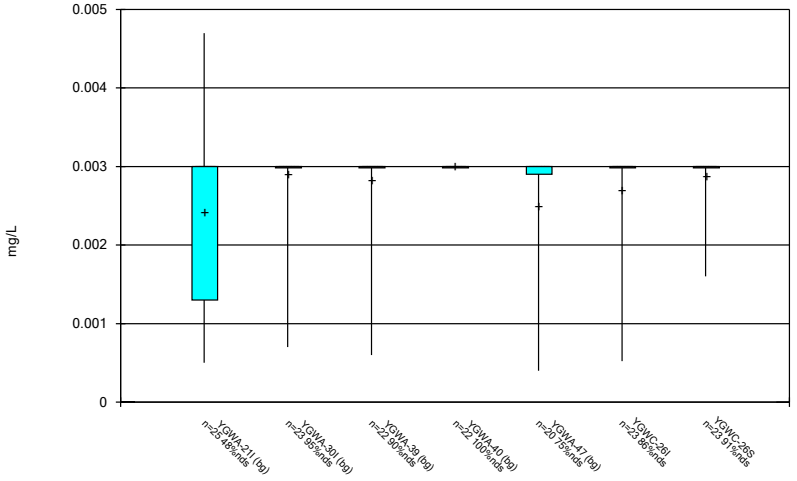
Box & Whiskers Plot



Constituent: Antimony Analysis Run 5/21/2025 2:50 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

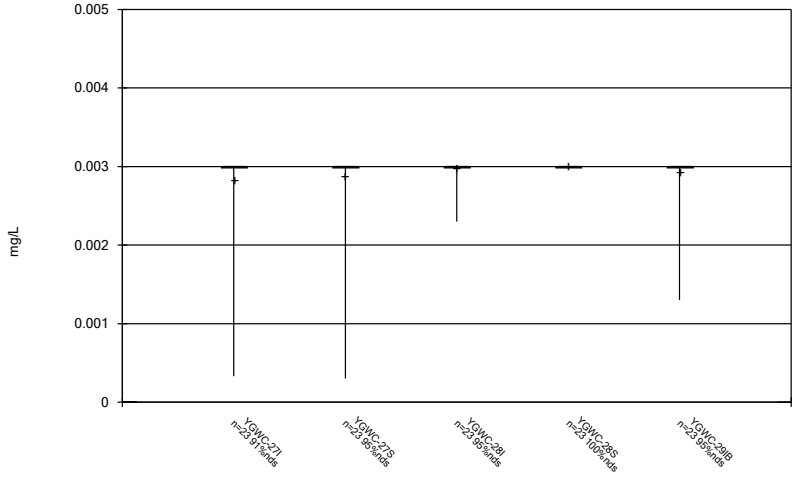
Box & Whiskers Plot



Constituent: Antimony Analysis Run 5/21/2025 2:50 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

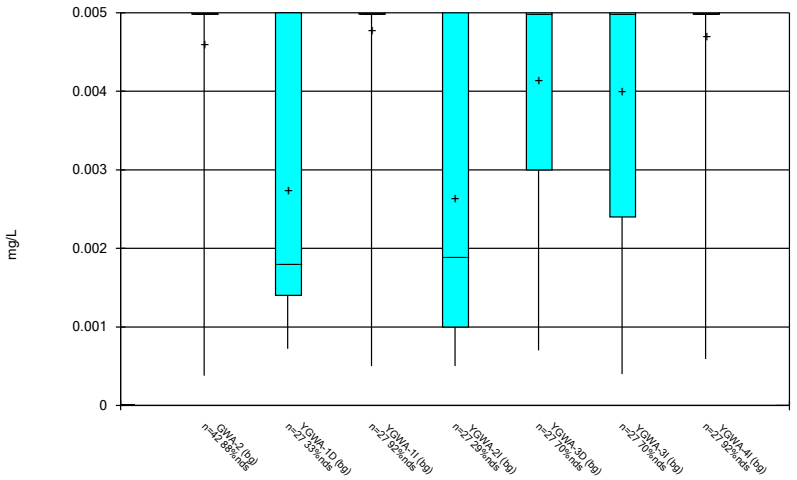
Box & Whiskers Plot



Constituent: Antimony Analysis Run 5/21/2025 2:50 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

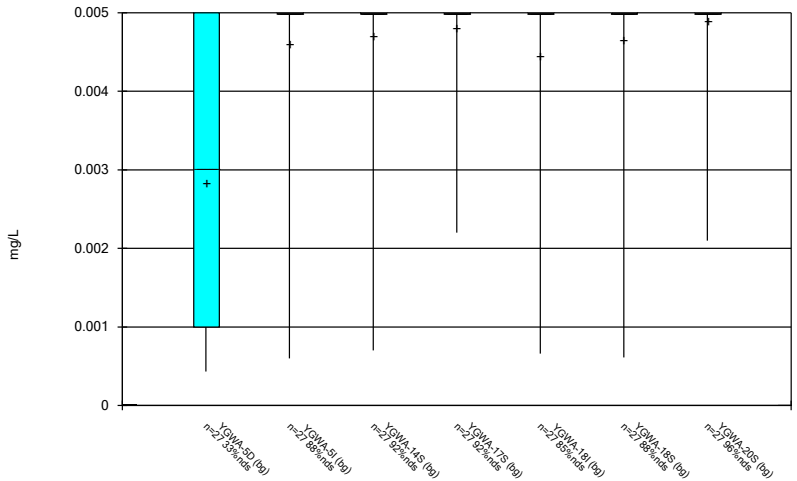


Constituent: Arsenic Analysis Run 5/21/2025 2:50 PM

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

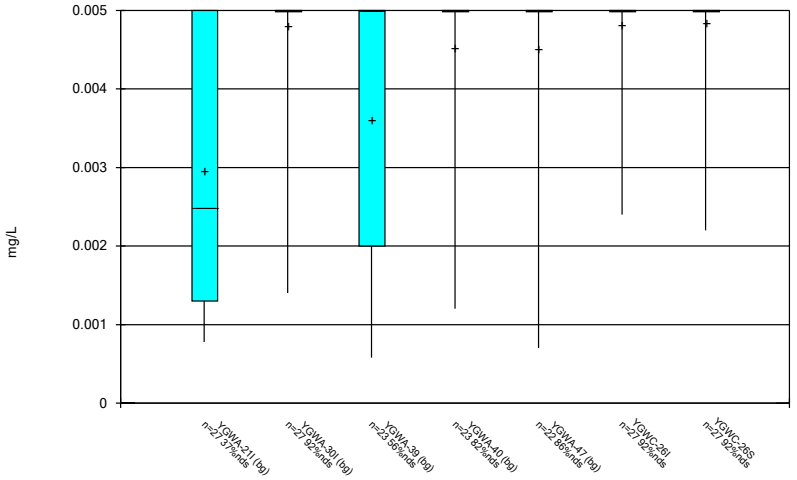


Constituent: Arsenic Analysis Run 5/21/2025 2:50 PM

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

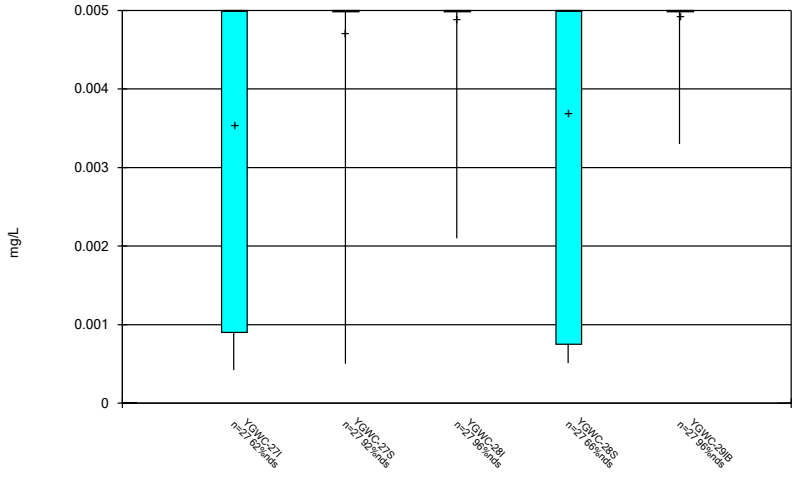


Constituent: Arsenic Analysis Run 5/21/2025 2:50 PM

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

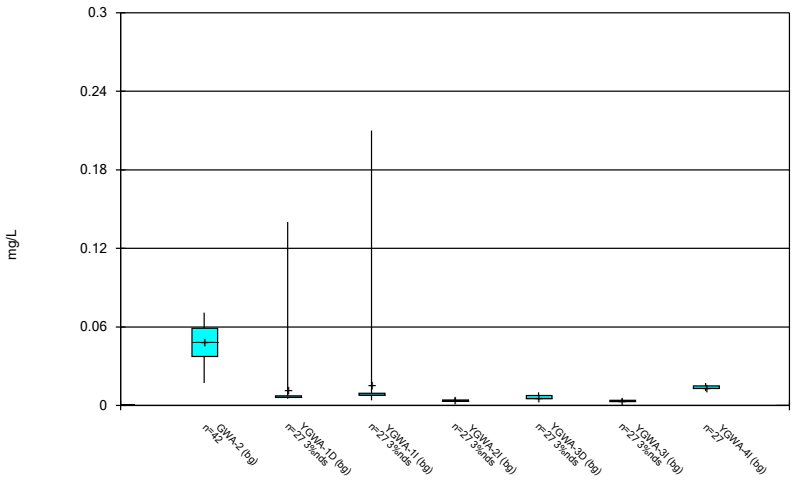


Constituent: Arsenic Analysis Run 5/21/2025 2:50 PM

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

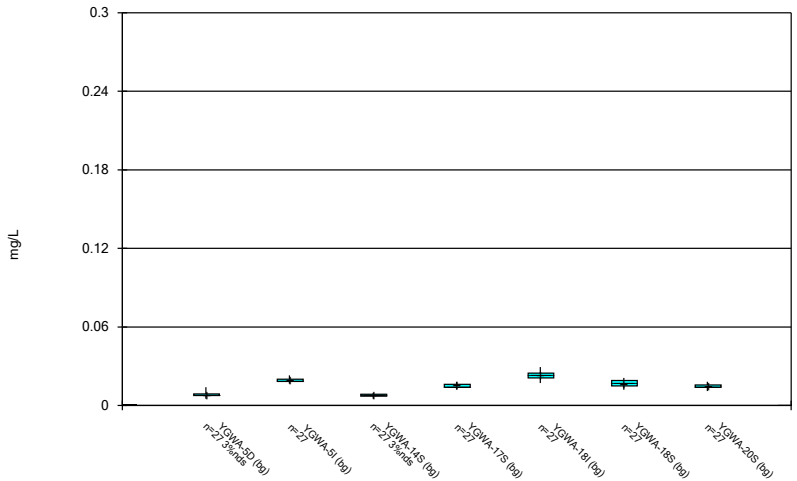


Constituent: Barium Analysis Run 5/21/2025 2:50 PM

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

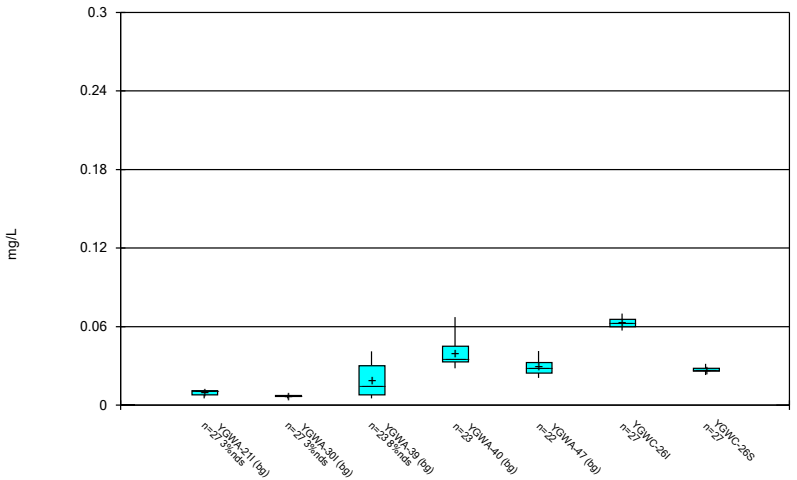


Constituent: Barium Analysis Run 5/21/2025 2:50 PM

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

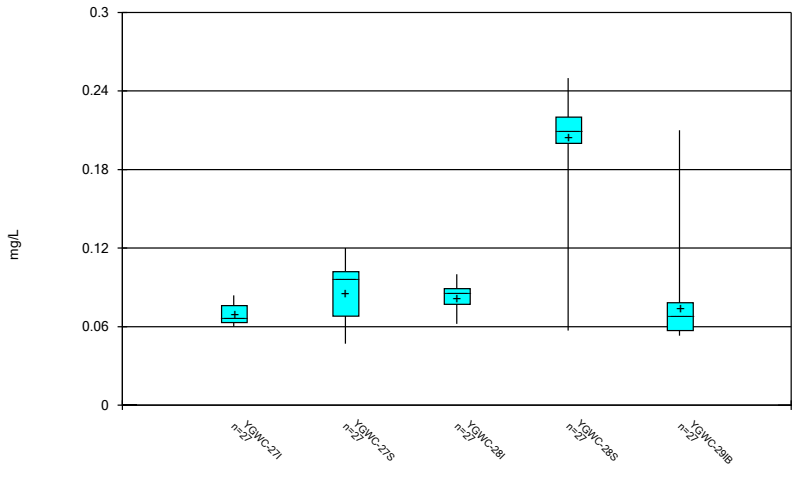


Constituent: Barium Analysis Run 5/21/2025 2:50 PM

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

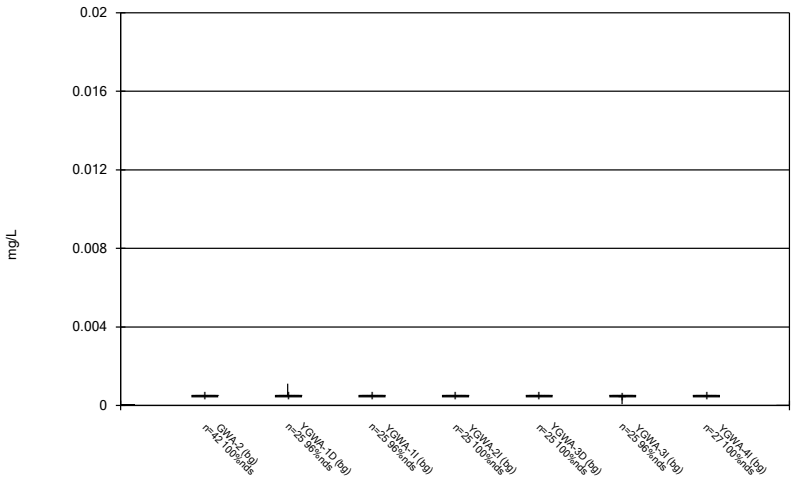


Constituent: Barium Analysis Run 5/21/2025 2:50 PM

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

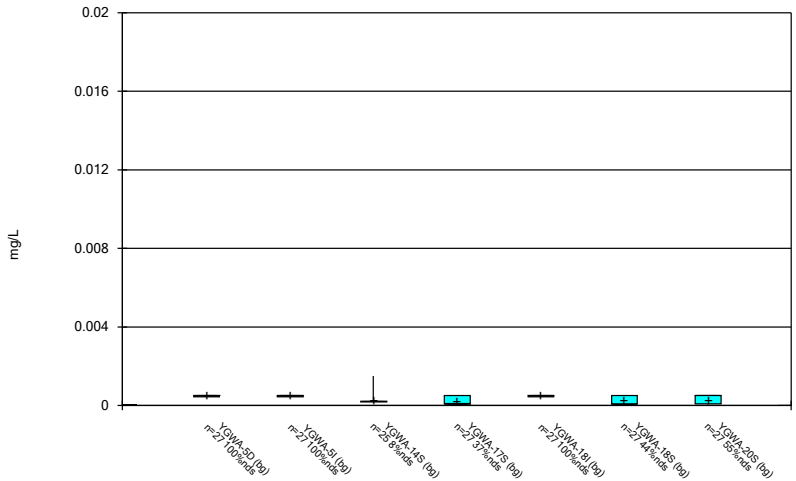
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 5/21/2025 2:50 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

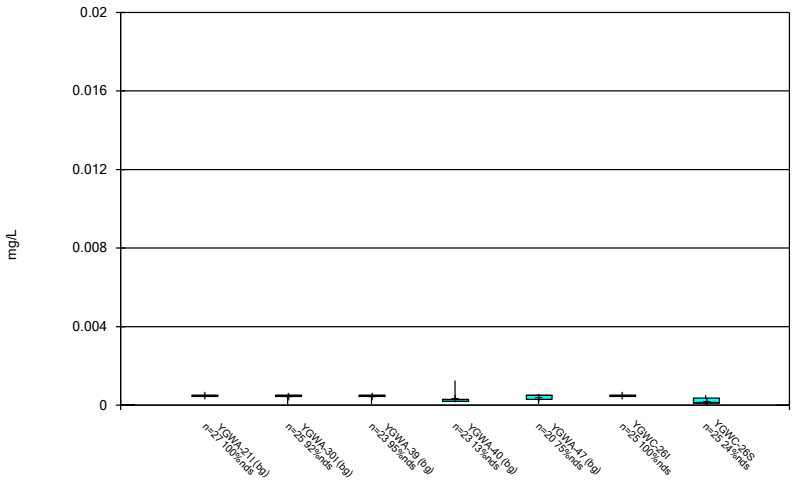
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 5/21/2025 2:50 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

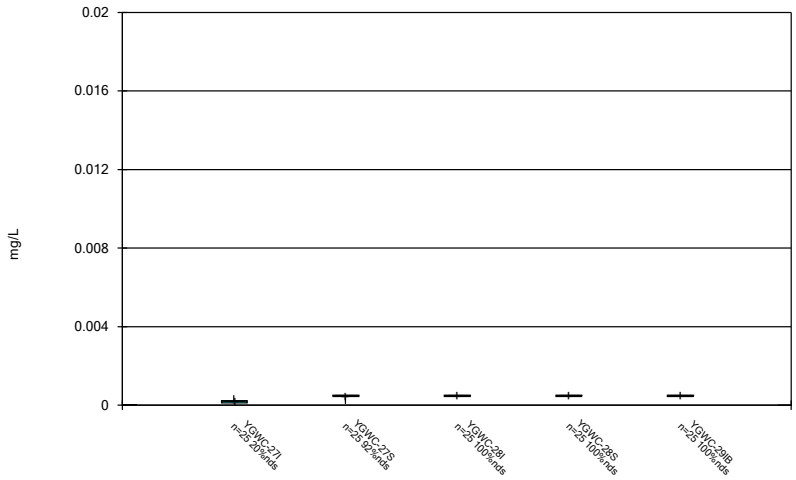
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 5/21/2025 2:50 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

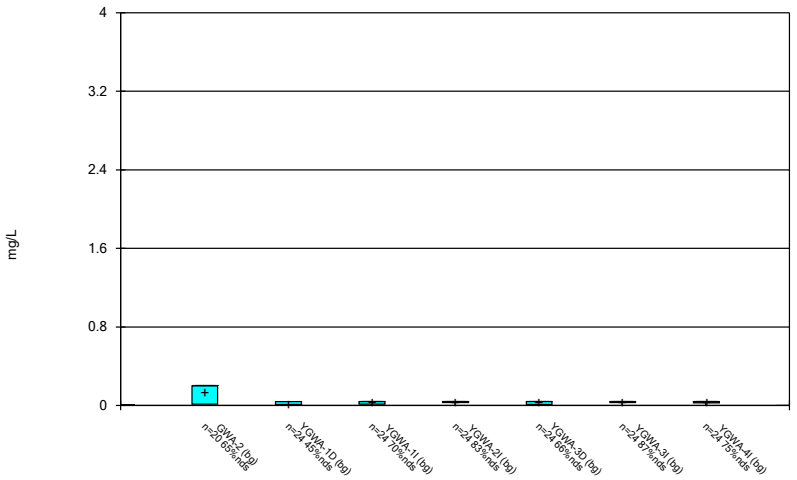
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 5/21/2025 2:50 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

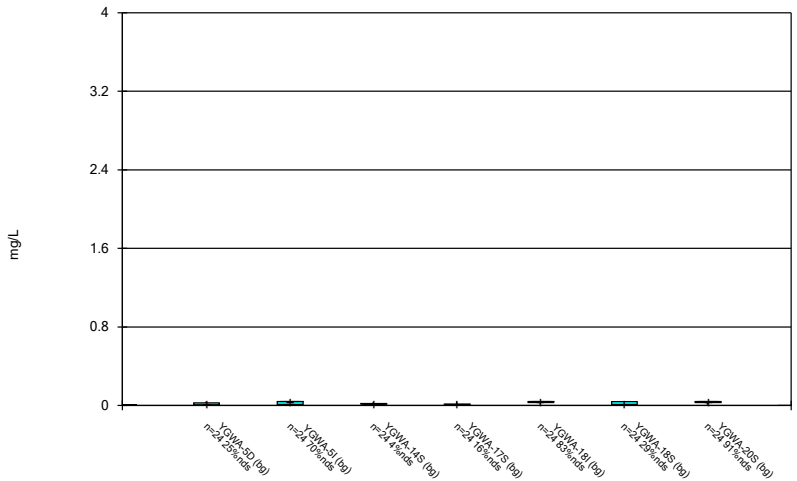


Constituent: Boron Analysis Run 5/21/2025 2:50 PM

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

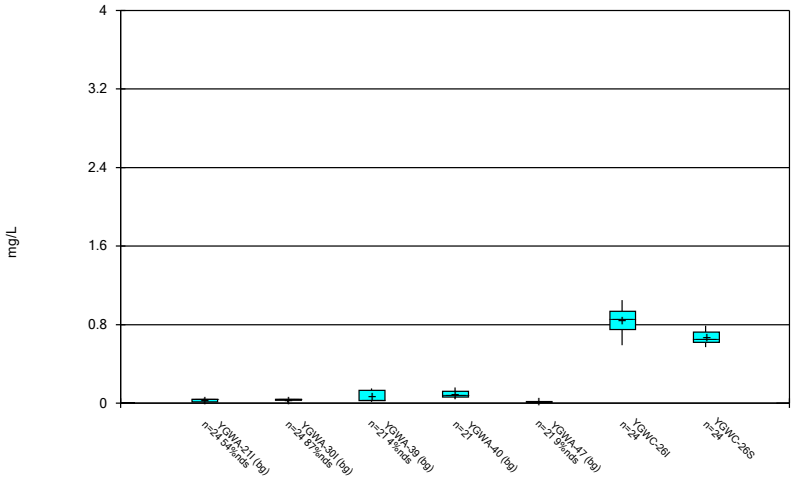


Constituent: Boron Analysis Run 5/21/2025 2:50 PM

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

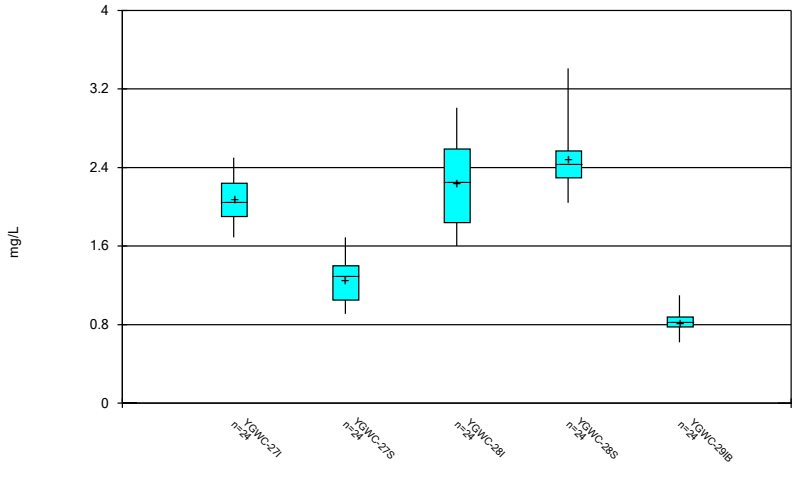


Constituent: Boron Analysis Run 5/21/2025 2:50 PM

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

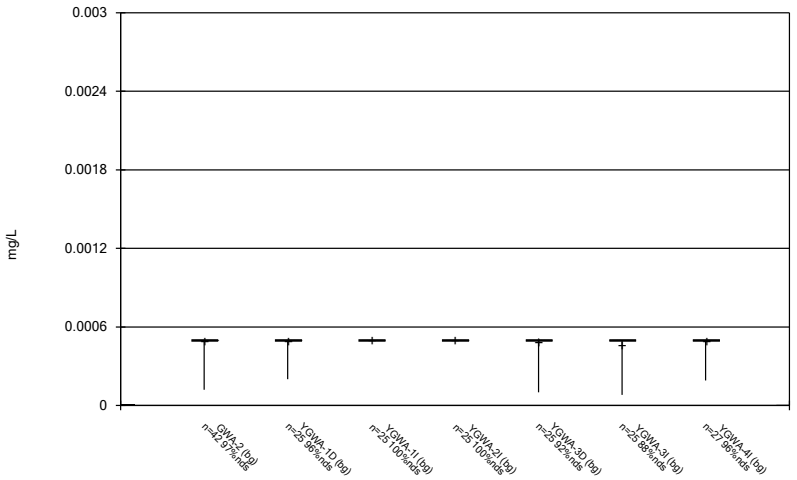


Constituent: Boron Analysis Run 5/21/2025 2:50 PM

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

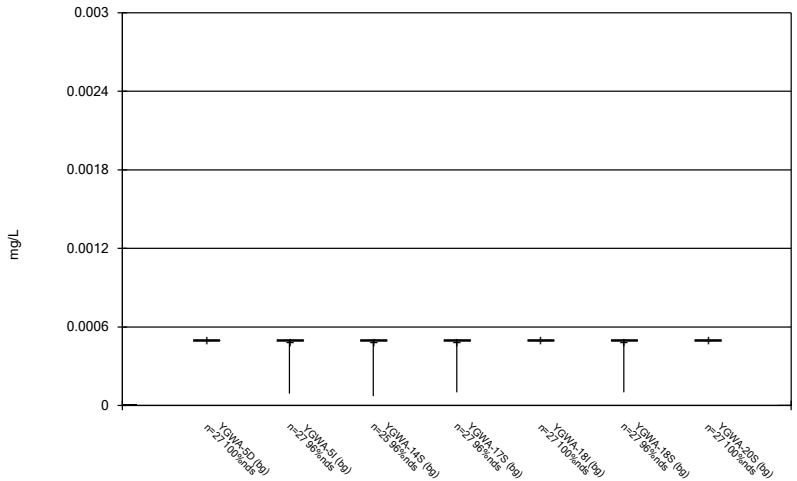
Box & Whiskers Plot



Constituent: Cadmium Analysis Run 5/21/2025 2:50 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

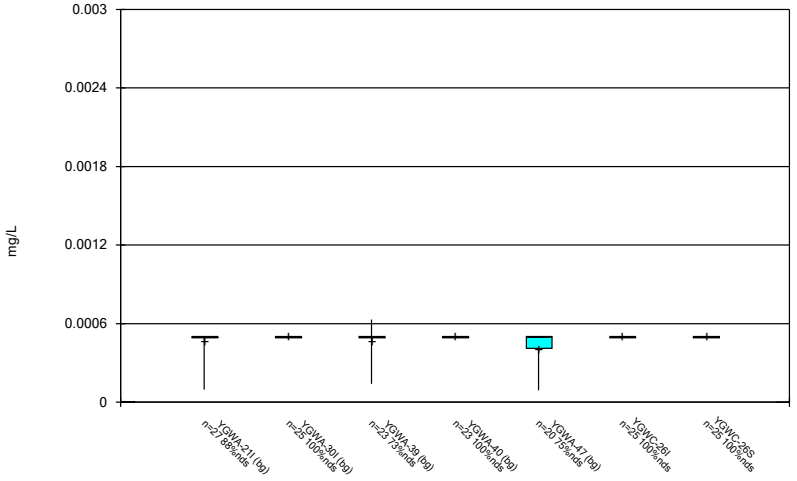
Box & Whiskers Plot



Constituent: Cadmium Analysis Run 5/21/2025 2:50 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

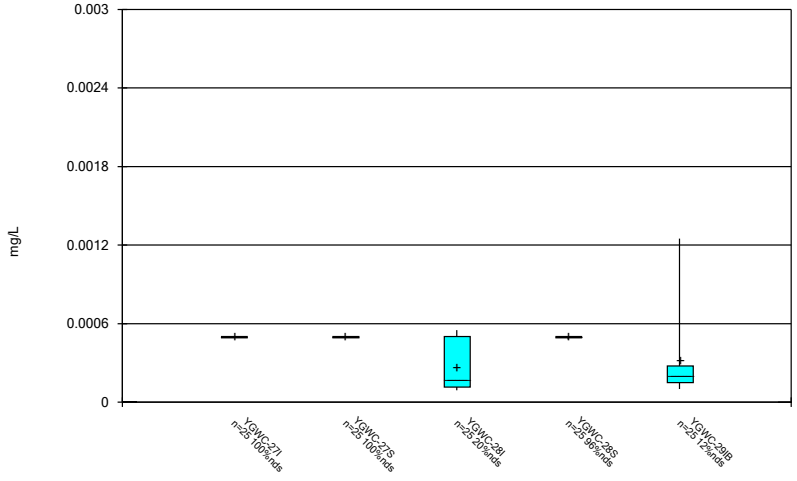
Box & Whiskers Plot



Constituent: Cadmium Analysis Run 5/21/2025 2:50 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

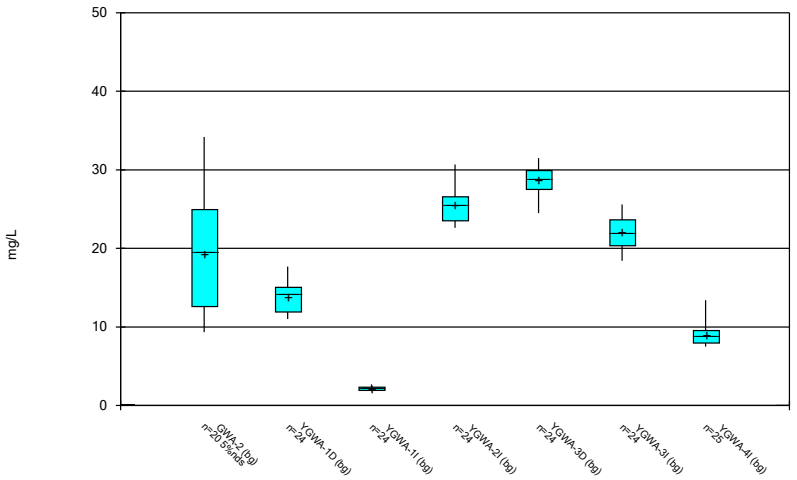
Box & Whiskers Plot



Constituent: Cadmium Analysis Run 5/21/2025 2:50 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

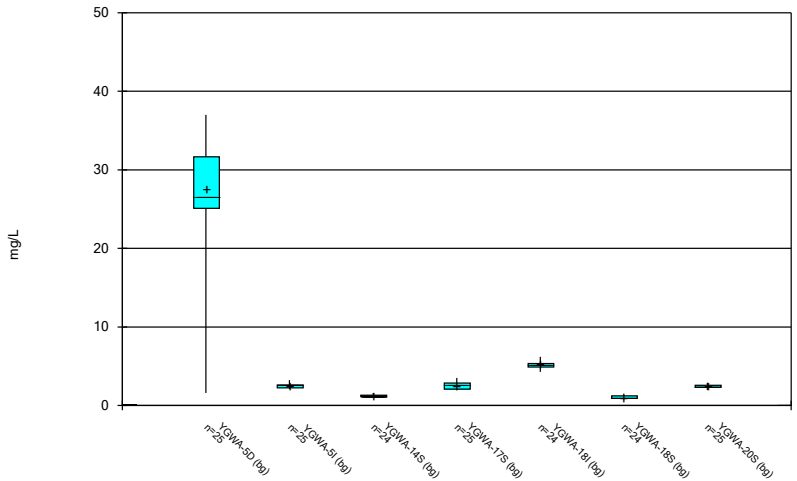


Constituent: Calcium Analysis Run 5/21/2025 2:50 PM

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

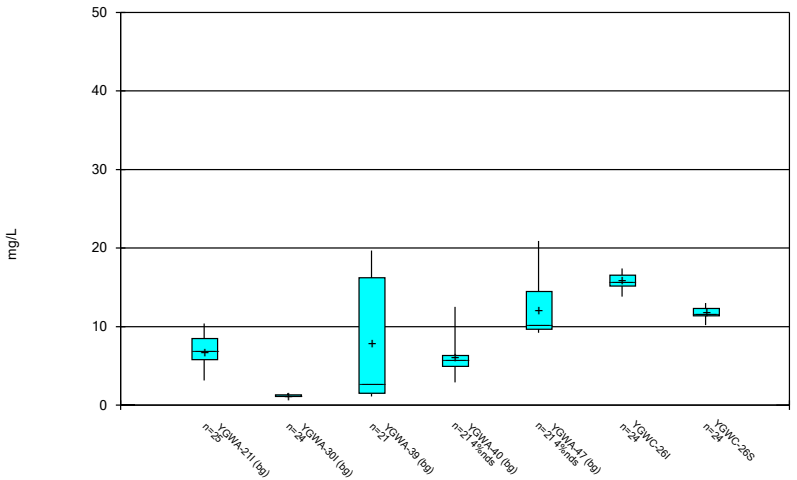


Constituent: Calcium Analysis Run 5/21/2025 2:50 PM

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

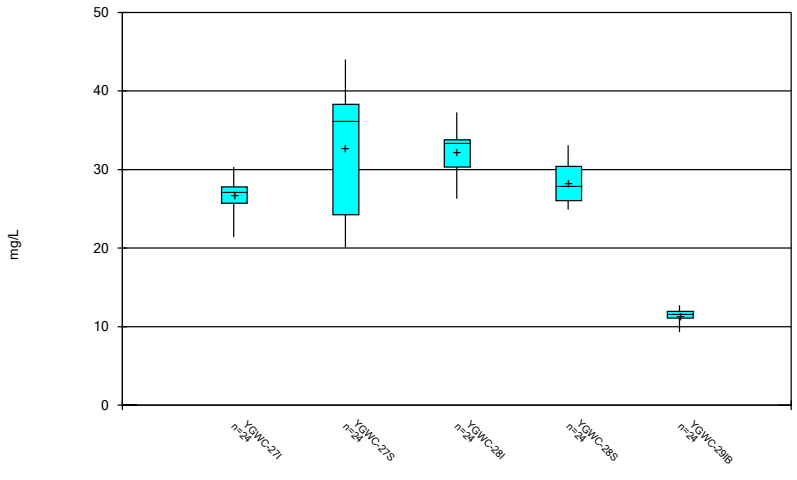


Constituent: Calcium Analysis Run 5/21/2025 2:50 PM

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

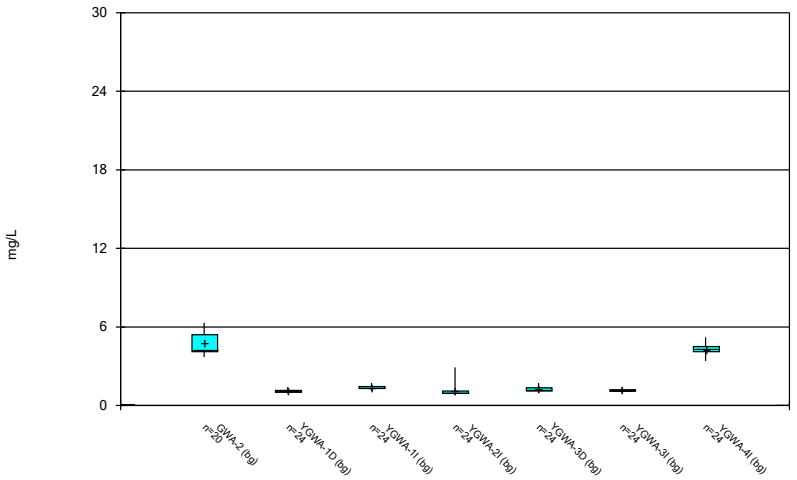


Constituent: Calcium Analysis Run 5/21/2025 2:50 PM

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

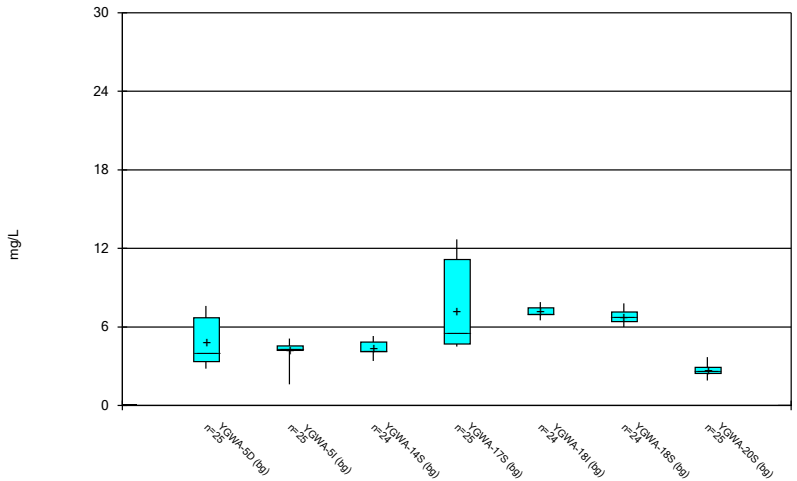


Constituent: Chloride Analysis Run 5/21/2025 2:50 PM

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

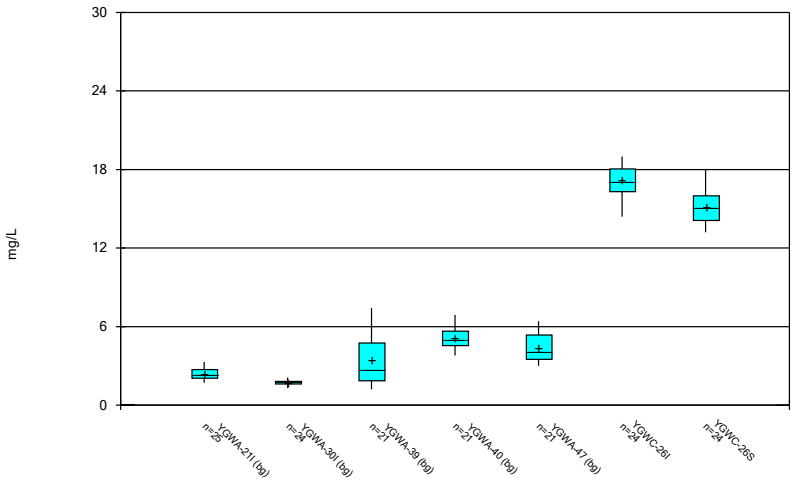


Constituent: Chloride Analysis Run 5/21/2025 2:50 PM

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

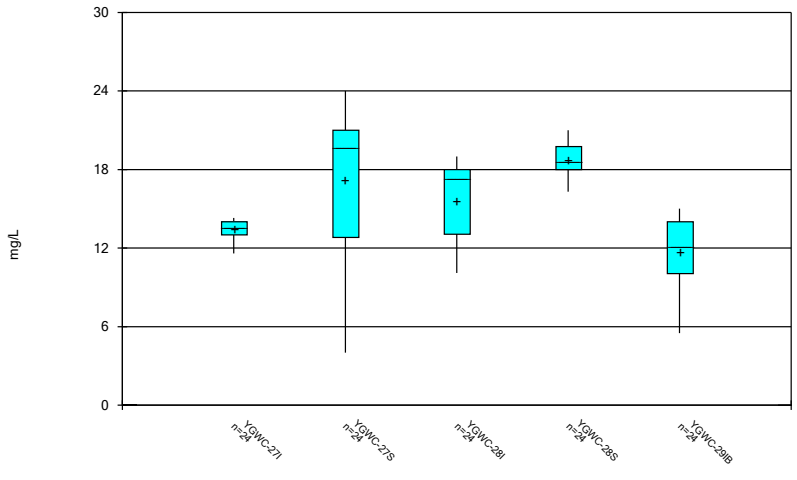


Constituent: Chloride Analysis Run 5/21/2025 2:50 PM

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

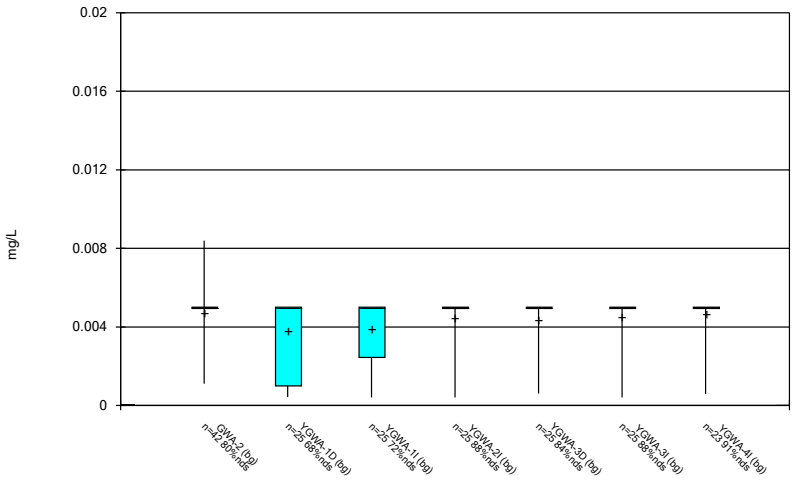


Constituent: Chloride Analysis Run 5/21/2025 2:50 PM

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

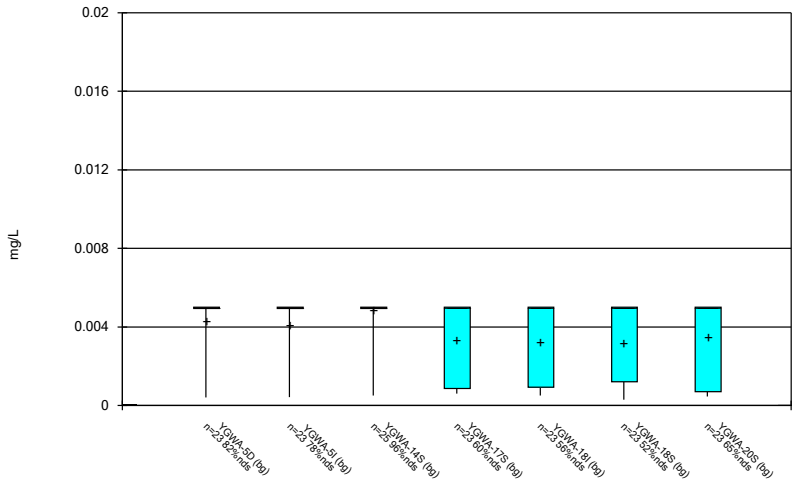


Constituent: Chromium Analysis Run 5/21/2025 2:50 PM

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

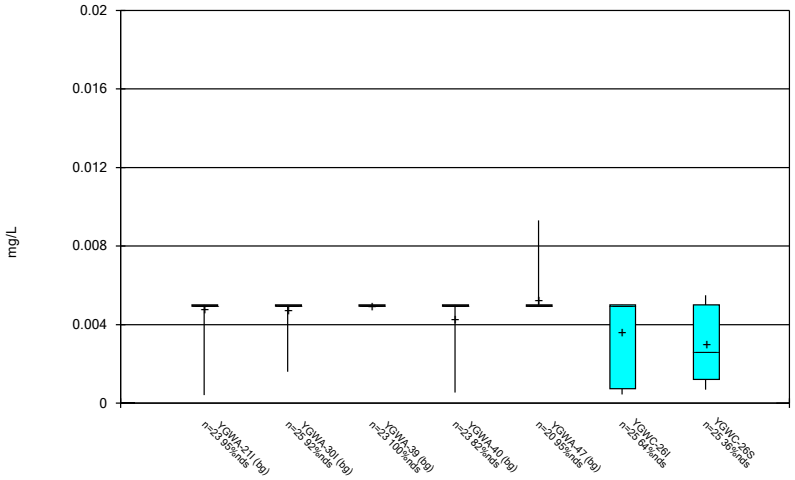


Constituent: Chromium Analysis Run 5/21/2025 2:50 PM

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

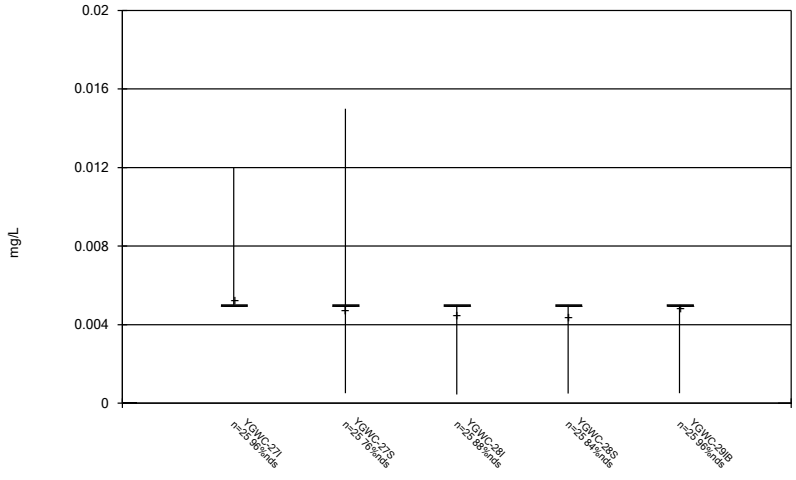


Constituent: Chromium Analysis Run 5/21/2025 2:50 PM

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

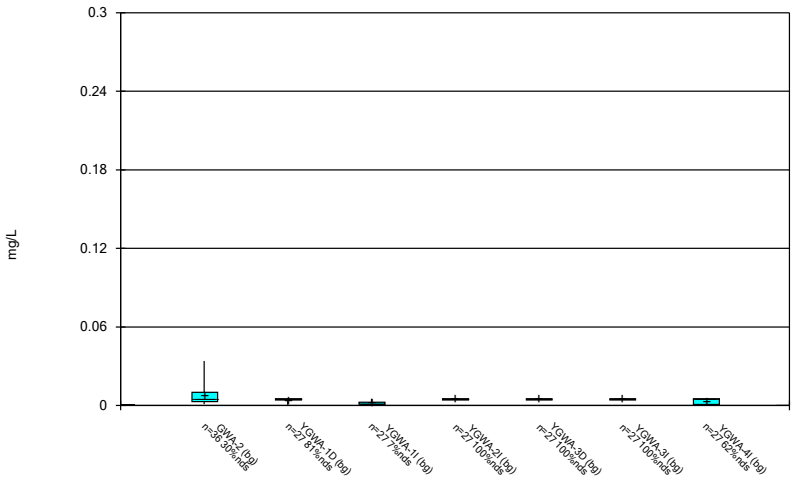


Constituent: Chromium Analysis Run 5/21/2025 2:50 PM

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

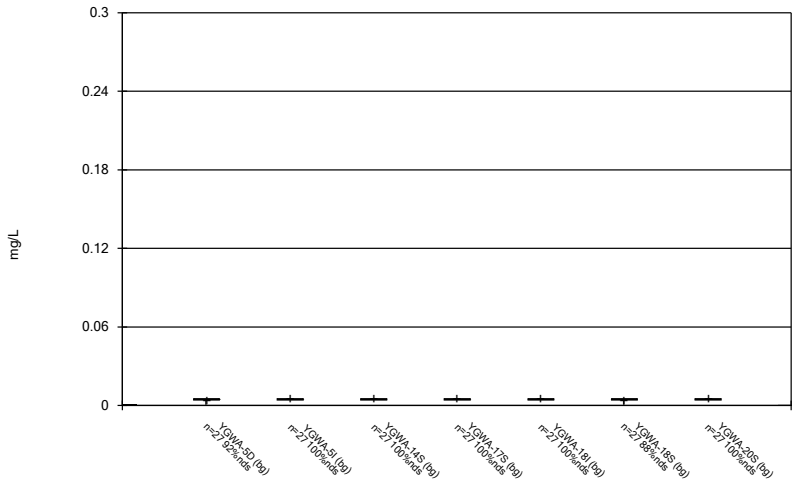


Constituent: Cobalt Analysis Run 5/21/2025 2:50 PM

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

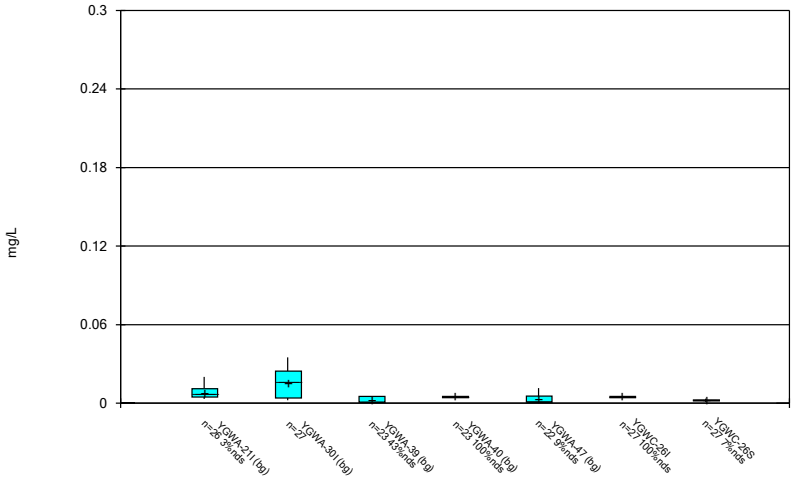


Constituent: Cobalt Analysis Run 5/21/2025 2:50 PM

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

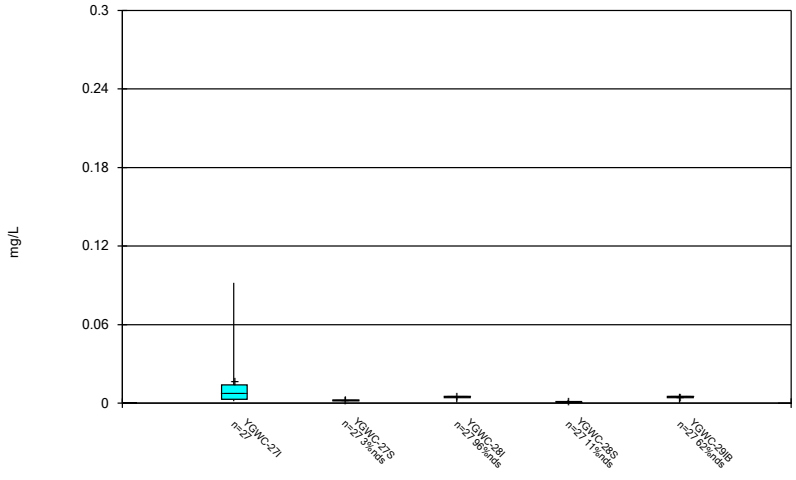


Constituent: Cobalt Analysis Run 5/21/2025 2:50 PM

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

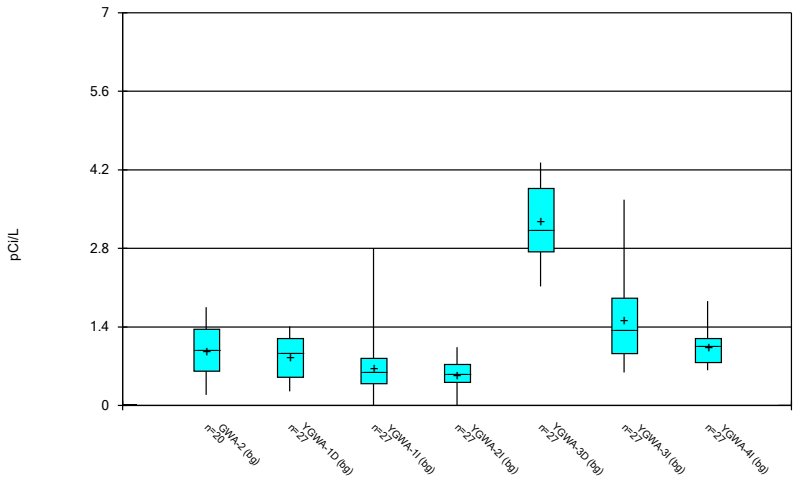


Constituent: Cobalt Analysis Run 5/21/2025 2:50 PM

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

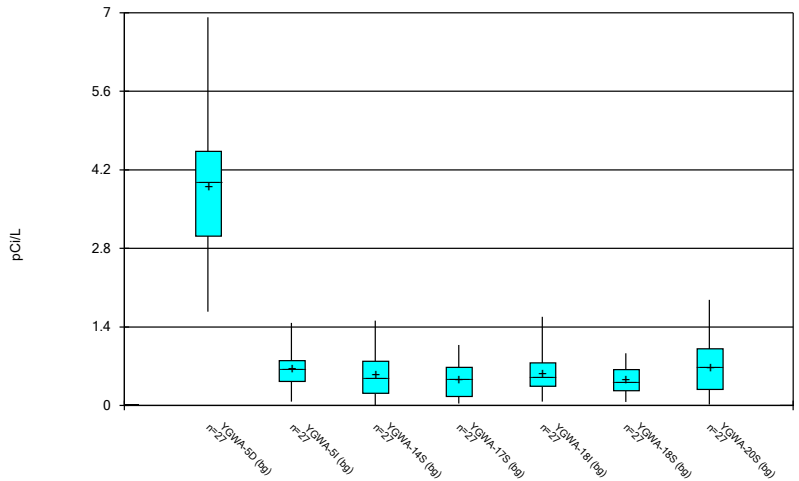
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 5/21/2025 2:50 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

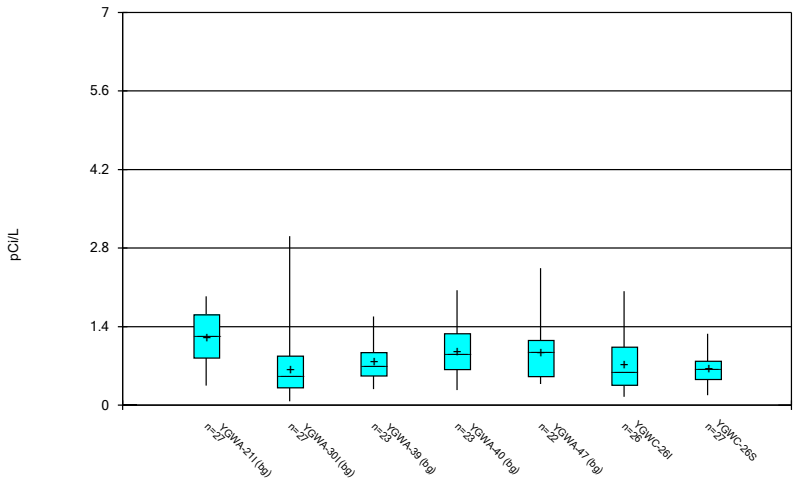
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 5/21/2025 2:50 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

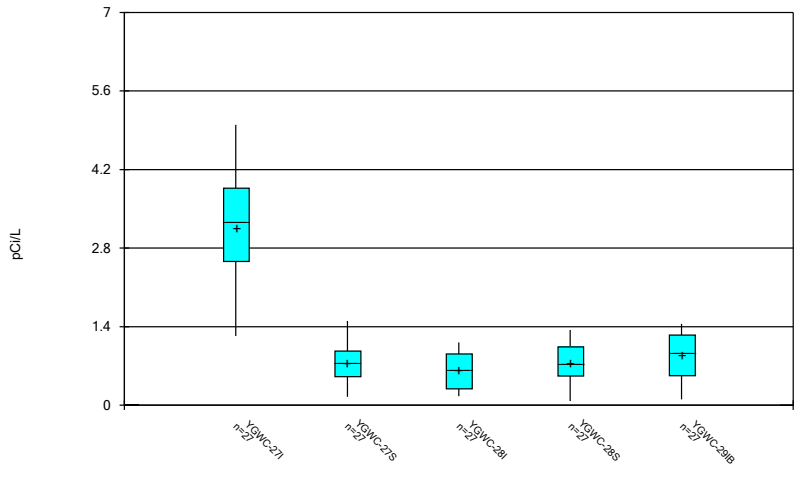
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 5/21/2025 2:50 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

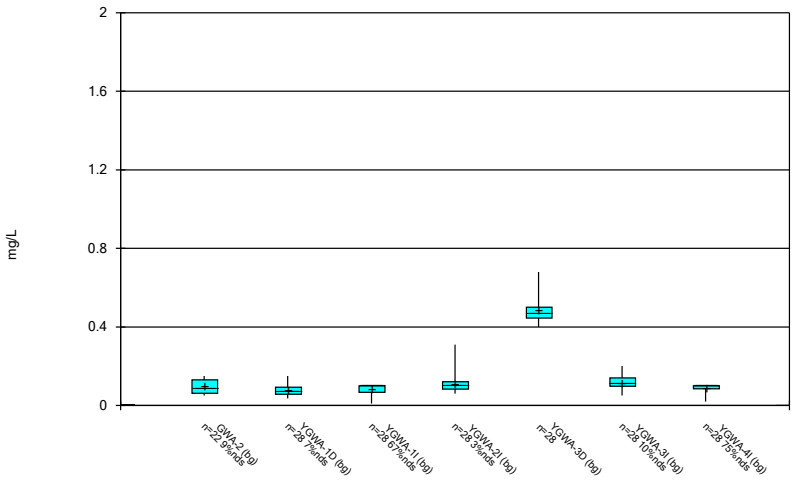
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 5/21/2025 2:50 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

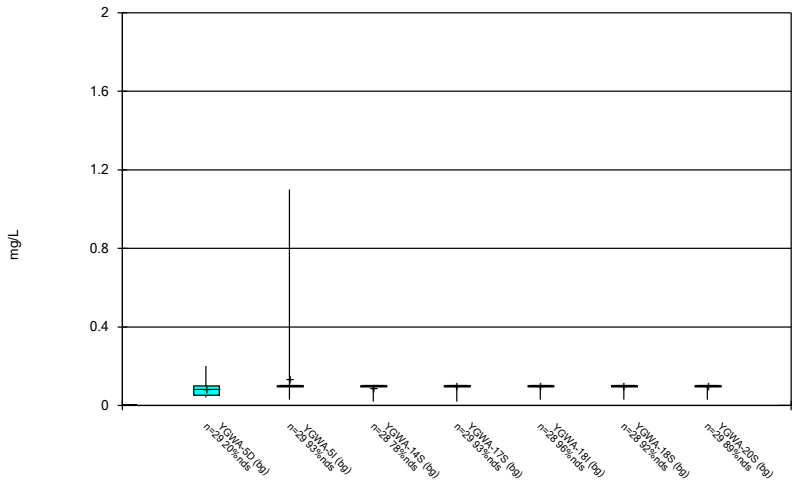
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 5/21/2025 2:50 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

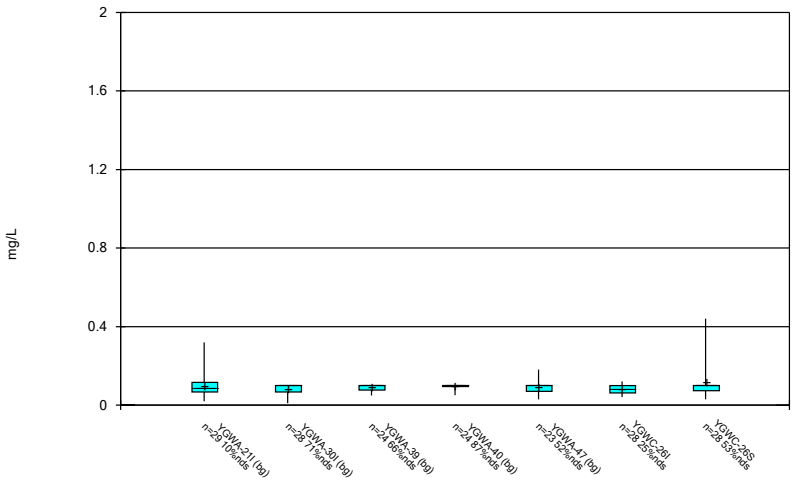
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 5/21/2025 2:51 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

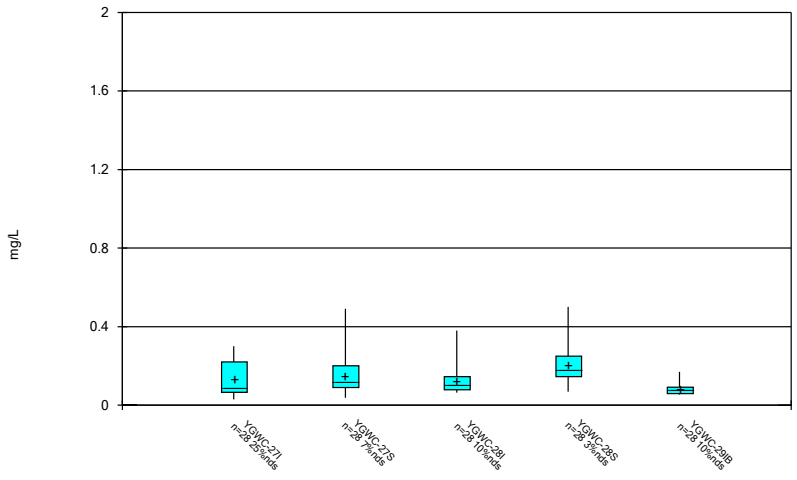
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 5/21/2025 2:51 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

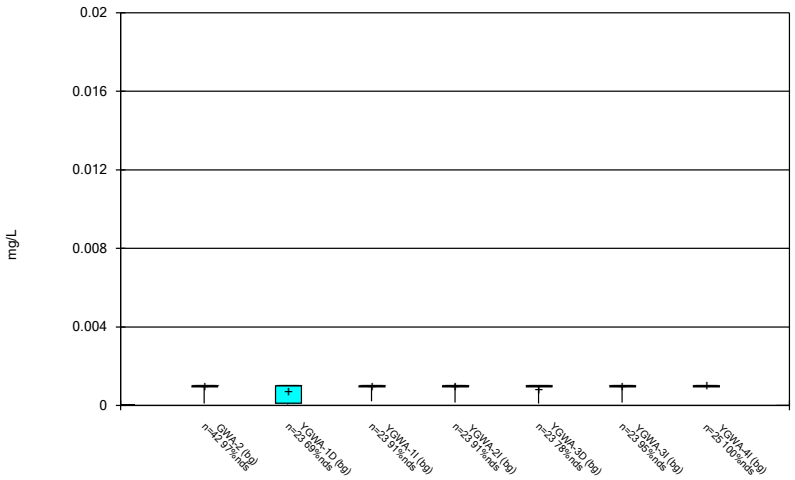
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 5/21/2025 2:51 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

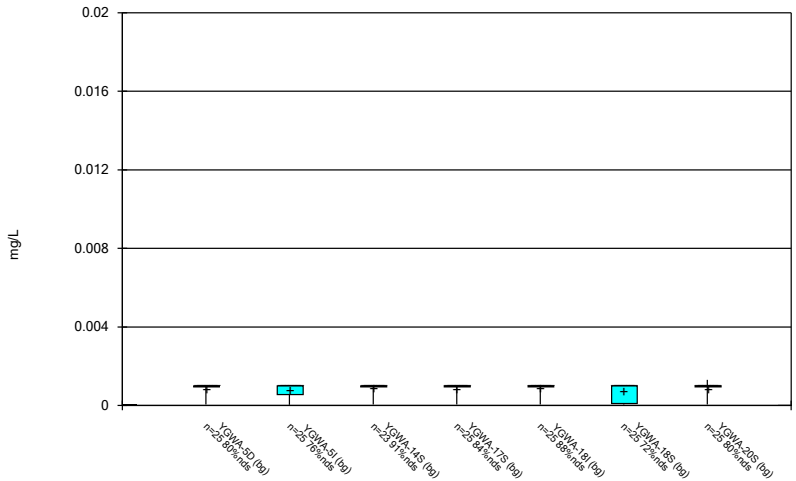


Constituent: Lead Analysis Run 5/21/2025 2:51 PM

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

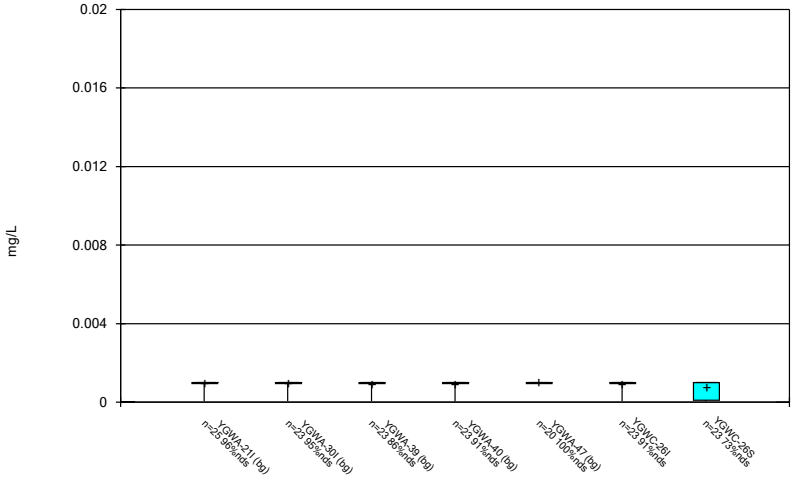


Constituent: Lead Analysis Run 5/21/2025 2:51 PM

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

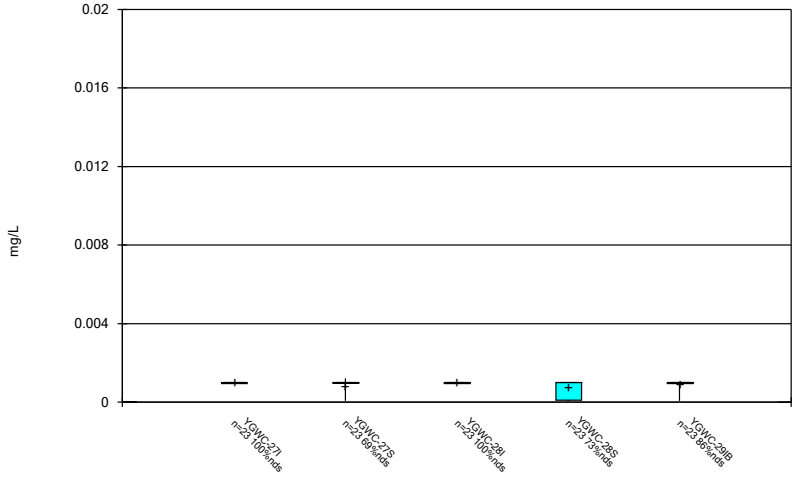


Constituent: Lead Analysis Run 5/21/2025 2:51 PM

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

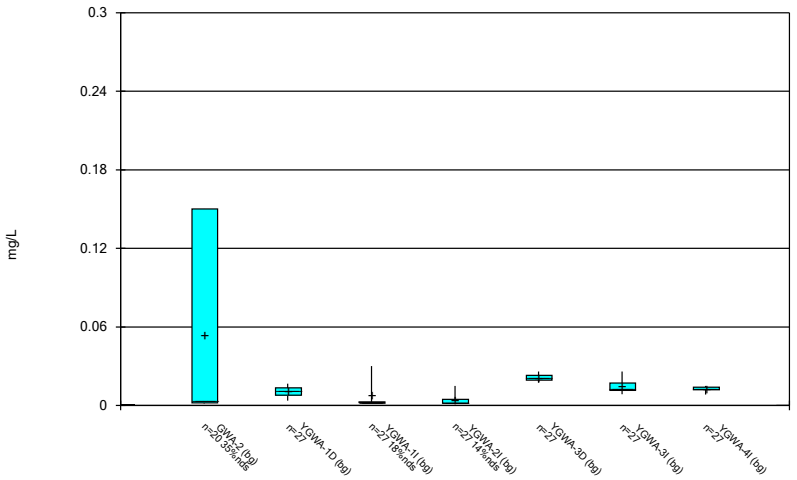


Constituent: Lead Analysis Run 5/21/2025 2:51 PM

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

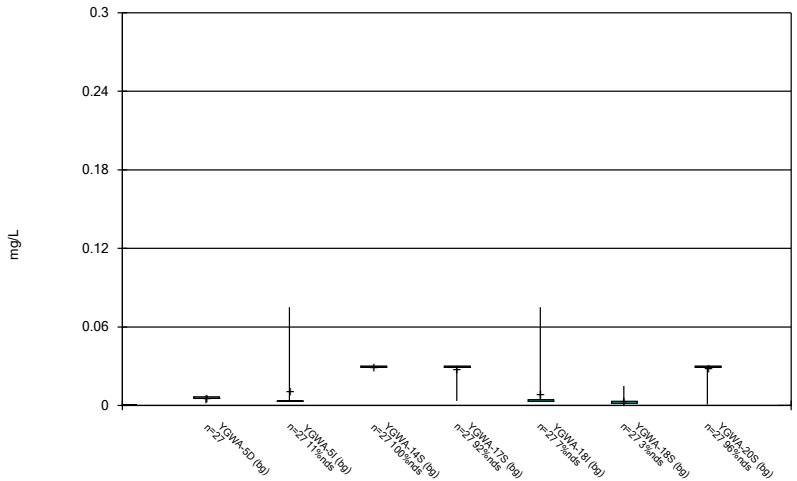


Constituent: Lithium Analysis Run 5/21/2025 2:51 PM

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

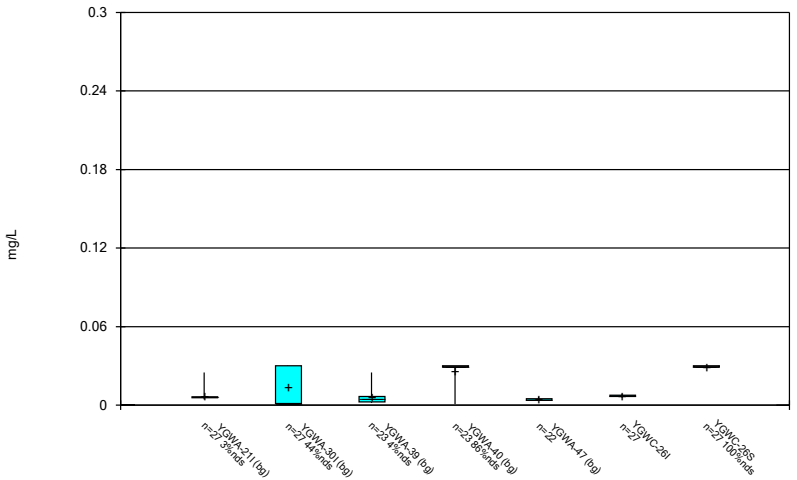


Constituent: Lithium Analysis Run 5/21/2025 2:51 PM

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

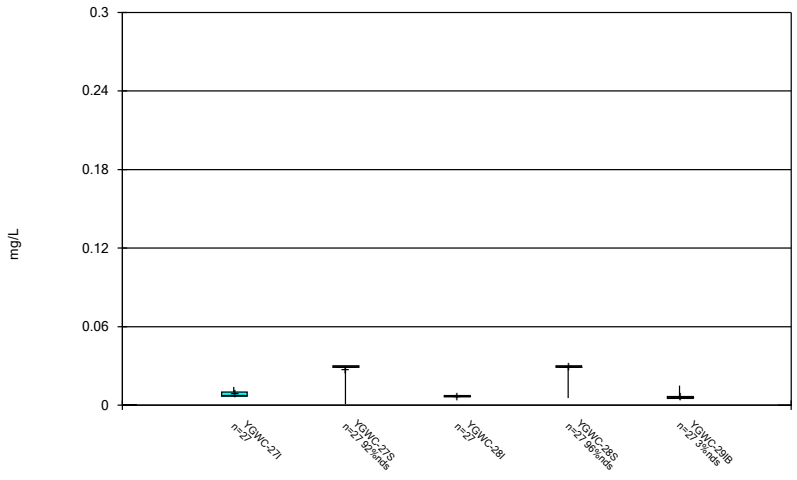


Constituent: Lithium Analysis Run 5/21/2025 2:51 PM

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

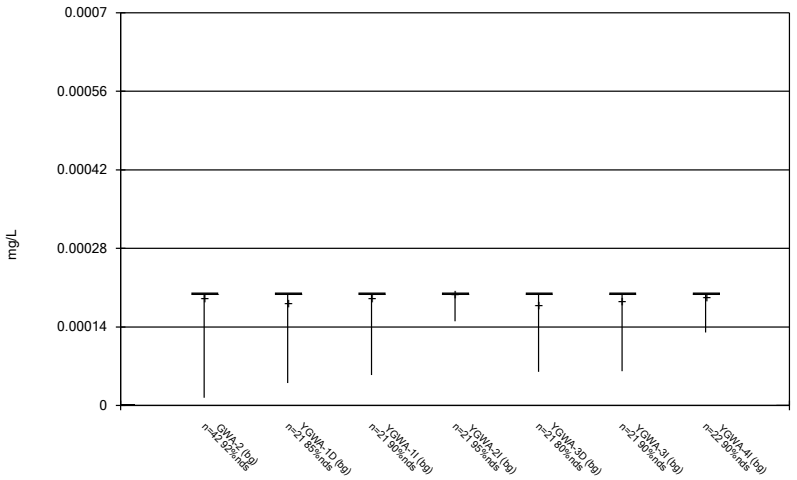


Constituent: Lithium Analysis Run 5/21/2025 2:51 PM

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

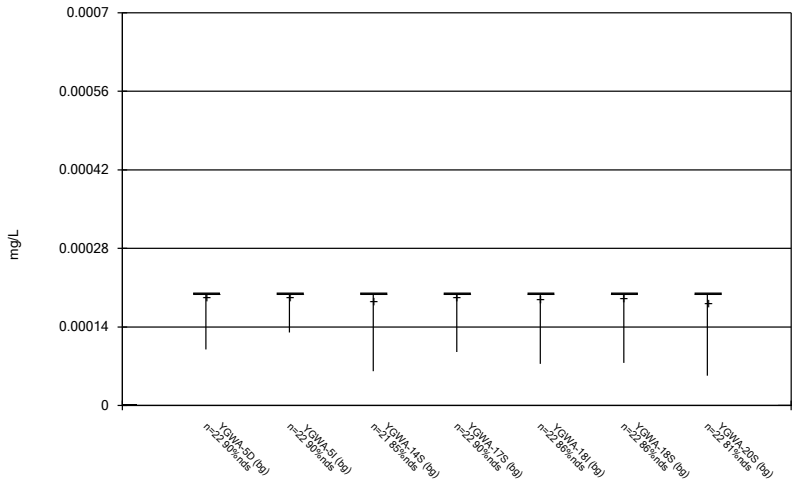
Box & Whiskers Plot



Constituent: Mercury Analysis Run 5/21/2025 2:51 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

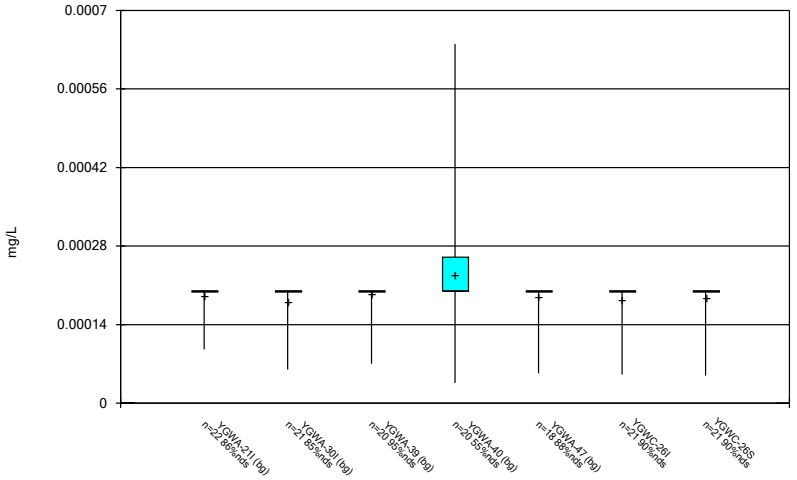
Box & Whiskers Plot



Constituent: Mercury Analysis Run 5/21/2025 2:51 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

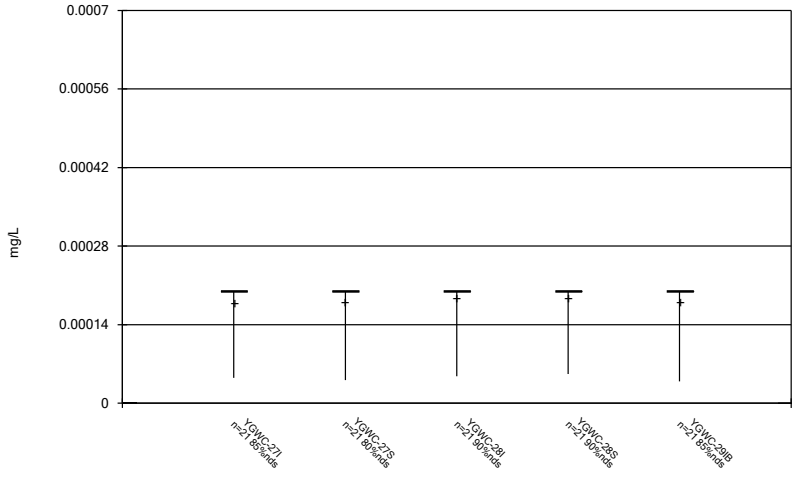
Box & Whiskers Plot



Constituent: Mercury Analysis Run 5/21/2025 2:51 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

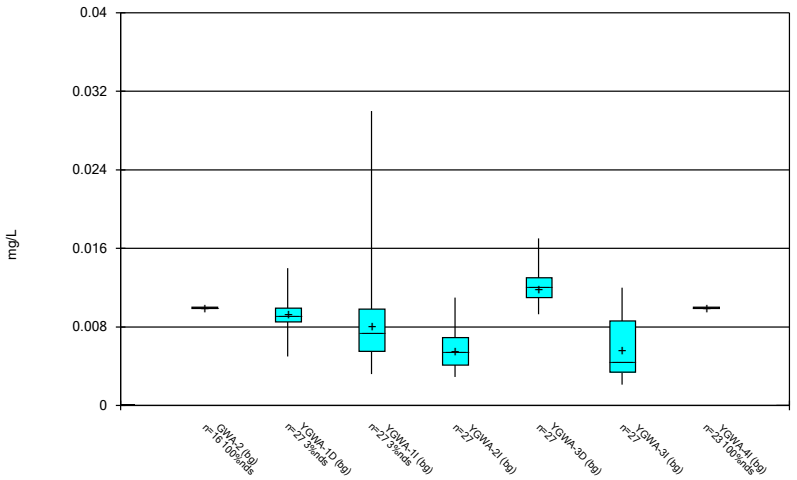
Box & Whiskers Plot



Constituent: Mercury Analysis Run 5/21/2025 2:51 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

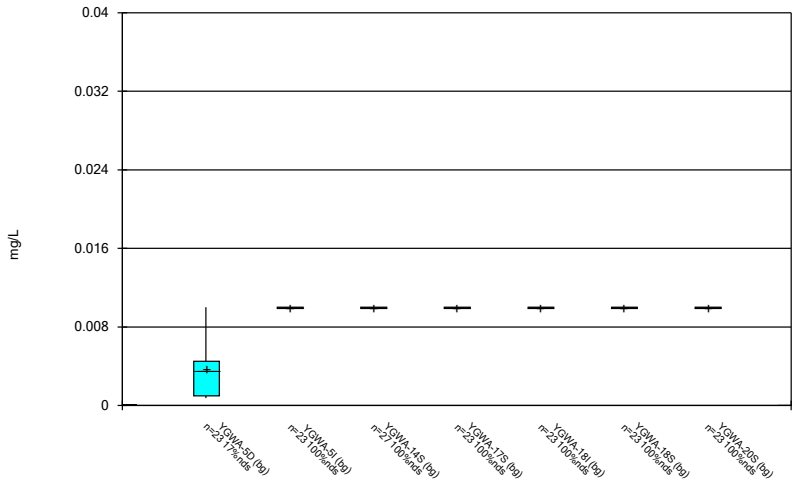
Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 5/21/2025 2:51 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

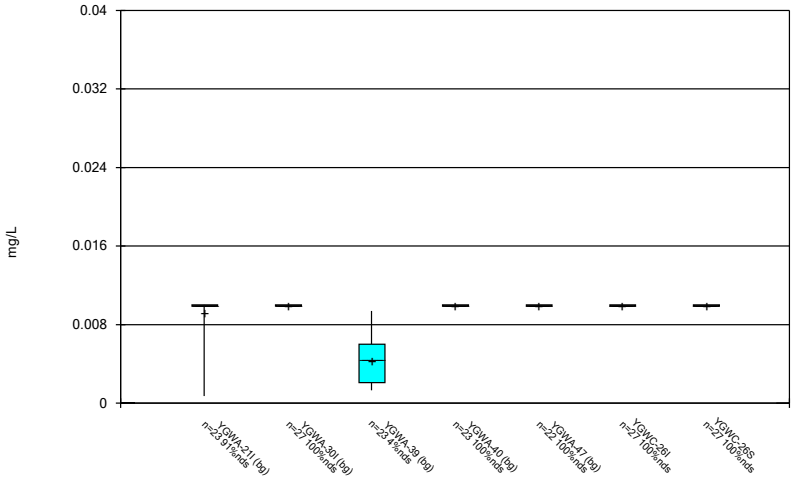
Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 5/21/2025 2:51 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

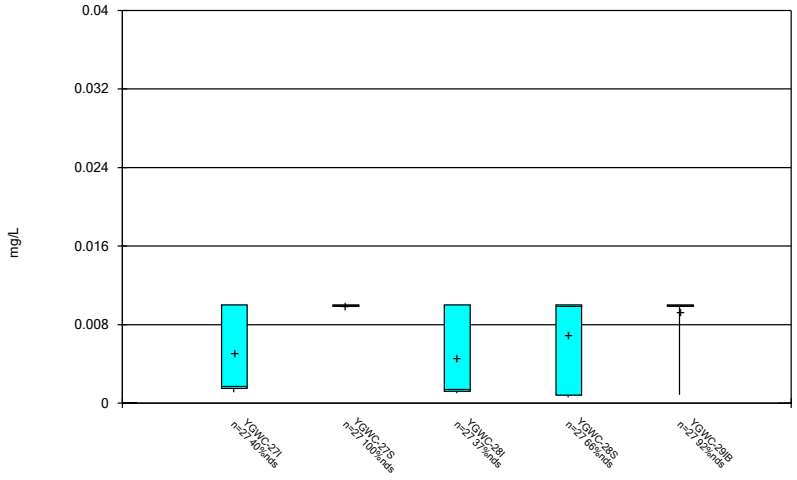
Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 5/21/2025 2:51 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

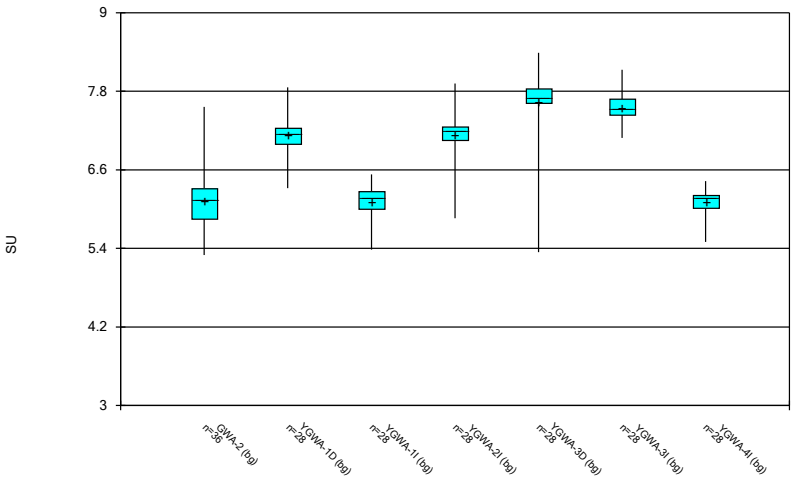
Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 5/21/2025 2:51 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

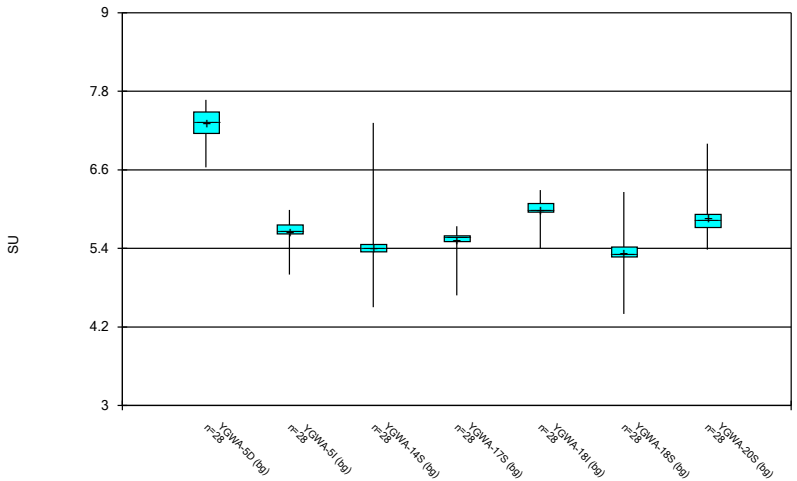


Constituent: pH, Field Analysis Run 5/21/2025 2:51 PM

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

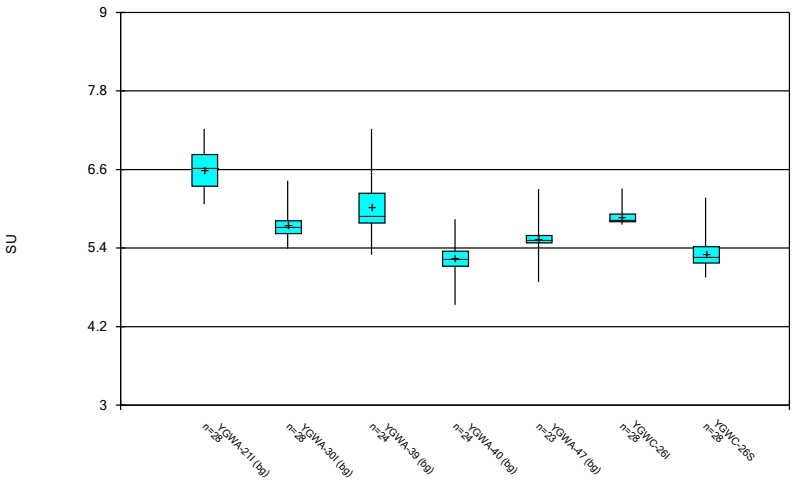


Constituent: pH, Field Analysis Run 5/21/2025 2:51 PM

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

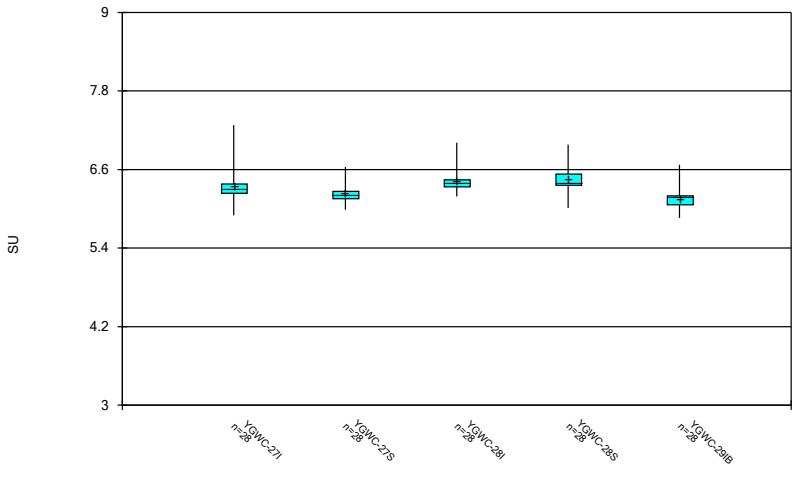


Constituent: pH, Field Analysis Run 5/21/2025 2:51 PM

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

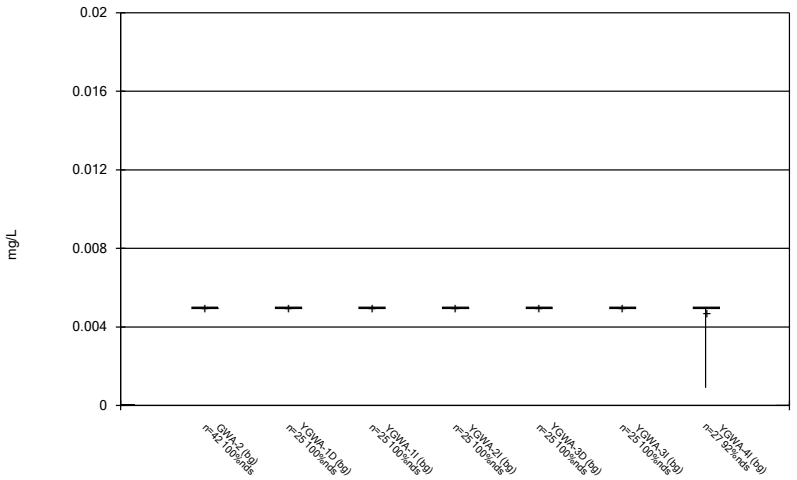


Constituent: pH, Field Analysis Run 5/21/2025 2:51 PM

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

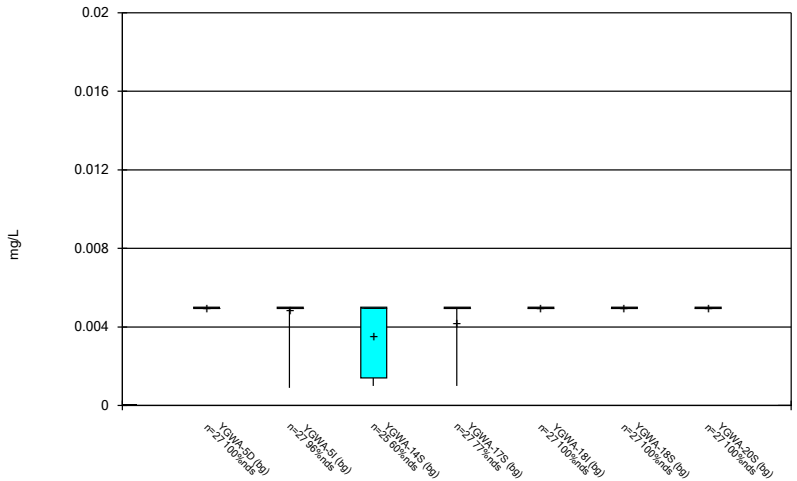
Box & Whiskers Plot



Constituent: Selenium Analysis Run 5/21/2025 2:51 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

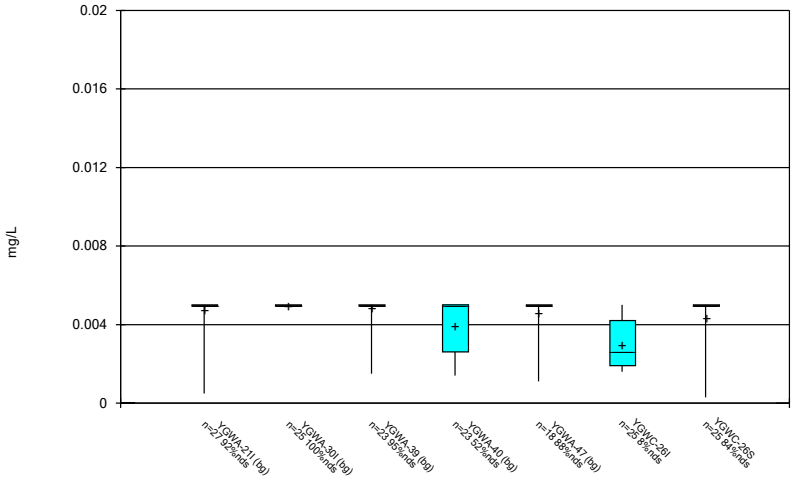
Box & Whiskers Plot



Constituent: Selenium Analysis Run 5/21/2025 2:51 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

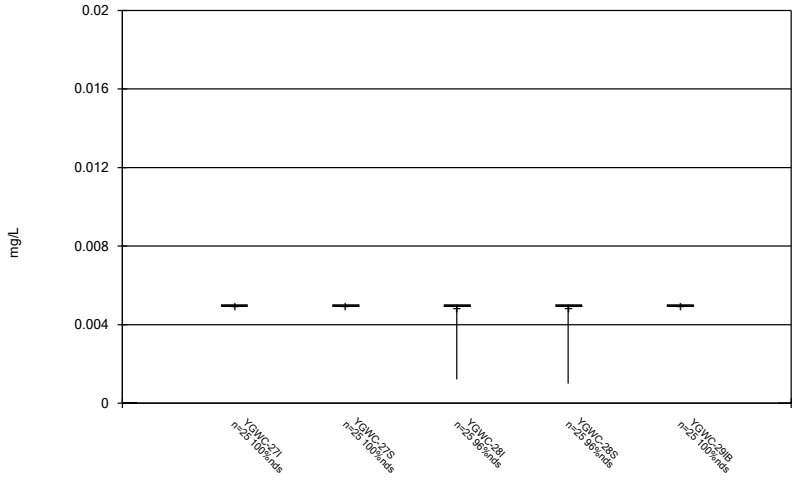
Box & Whiskers Plot



Constituent: Selenium Analysis Run 5/21/2025 2:51 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

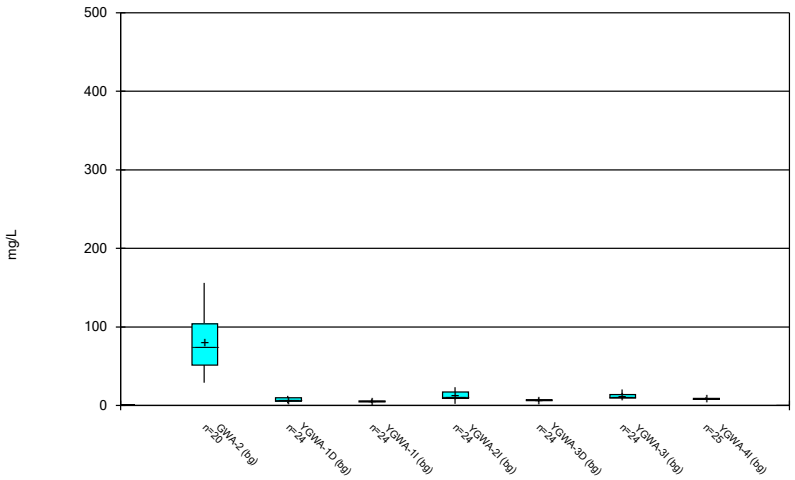
Box & Whiskers Plot



Constituent: Selenium Analysis Run 5/21/2025 2:51 PM
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

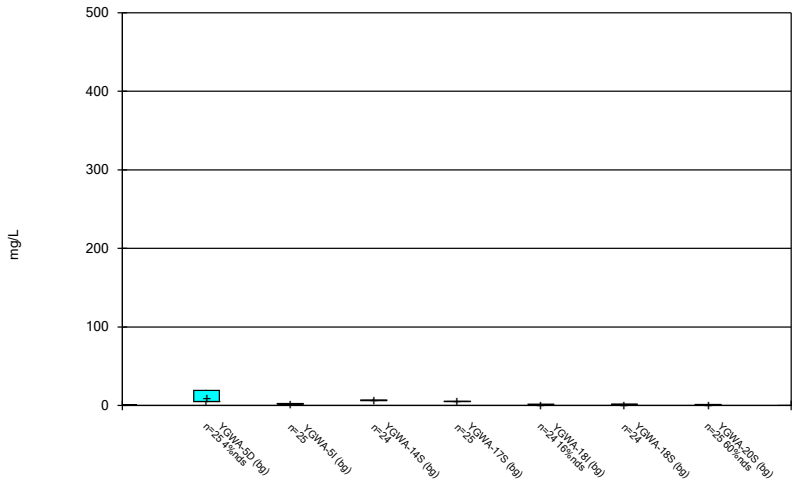


Constituent: Sulfate Analysis Run 5/21/2025 2:51 PM

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

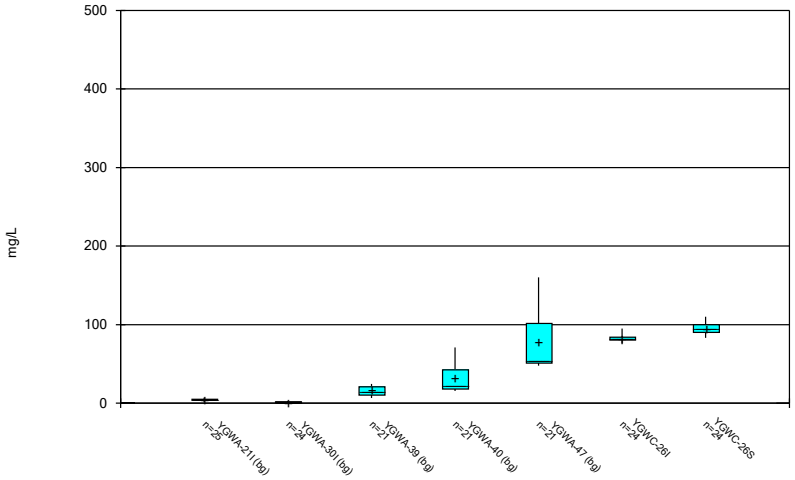


Constituent: Sulfate Analysis Run 5/21/2025 2:51 PM

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

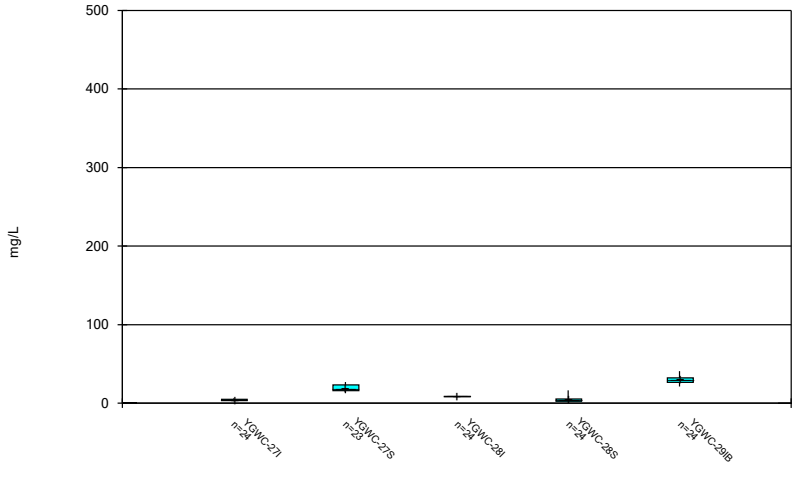


Constituent: Sulfate Analysis Run 5/21/2025 2:51 PM

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

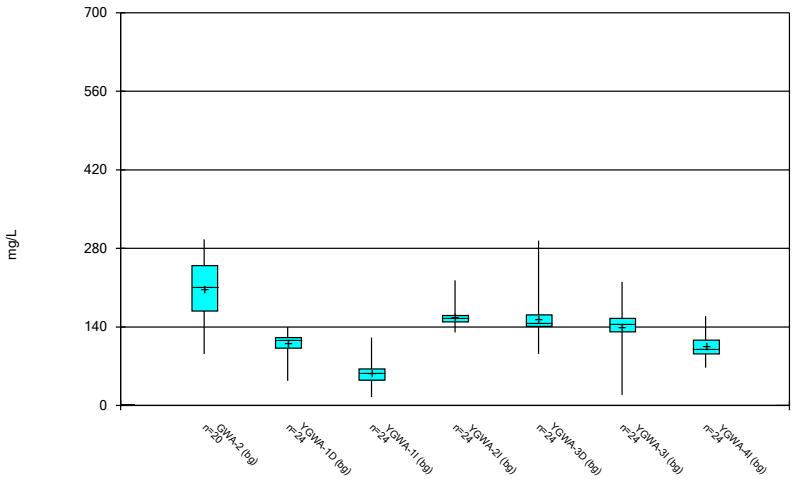


Constituent: Sulfate Analysis Run 5/21/2025 2:51 PM

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

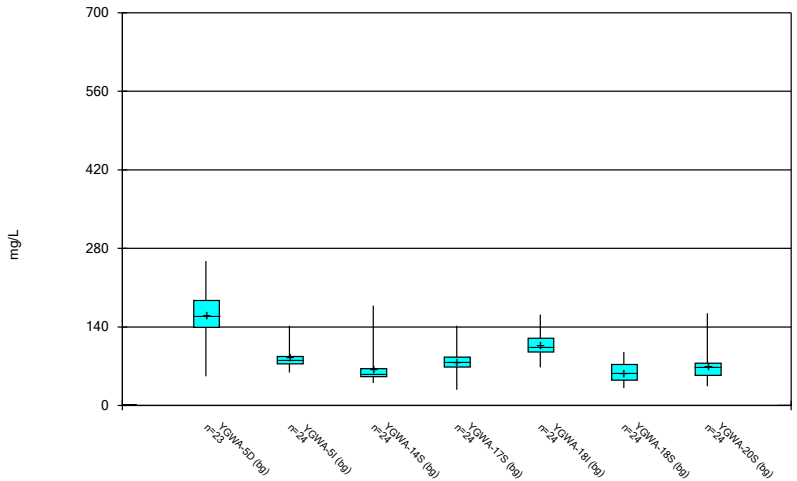


Constituent: TDS Analysis Run 5/21/2025 2:51 PM

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

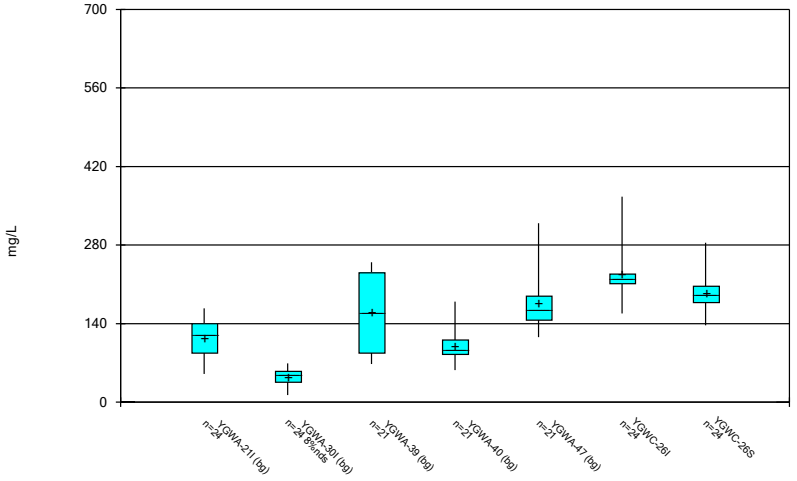


Constituent: TDS Analysis Run 5/21/2025 2:51 PM

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

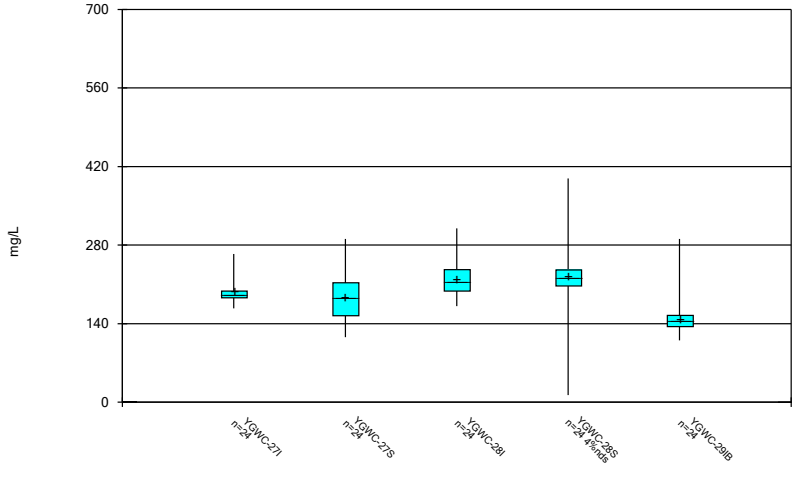


Constituent: TDS Analysis Run 5/21/2025 2:51 PM

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

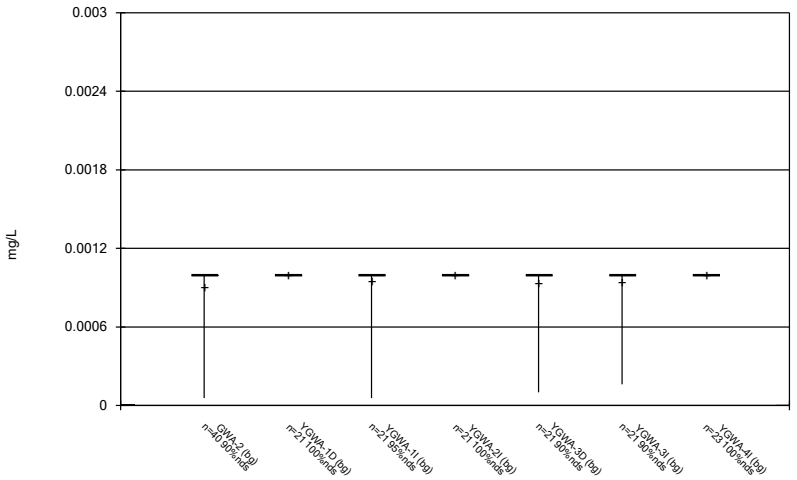


Constituent: TDS Analysis Run 5/21/2025 2:51 PM

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

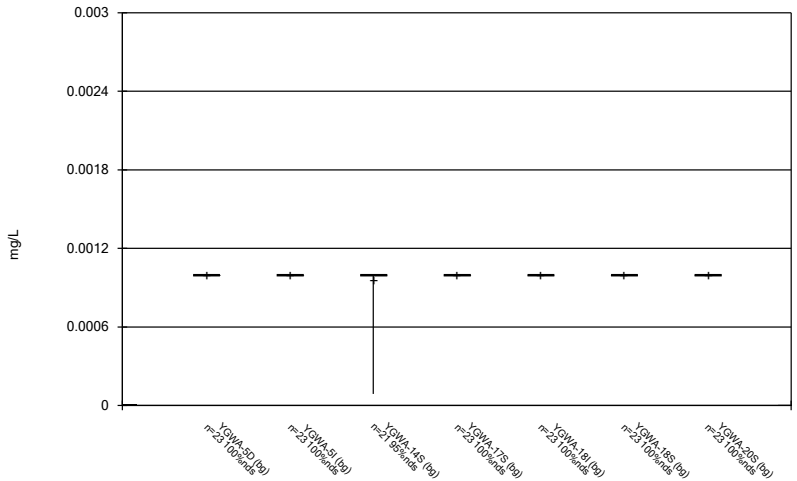


Constituent: Thallium Analysis Run 5/21/2025 2:51 PM

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

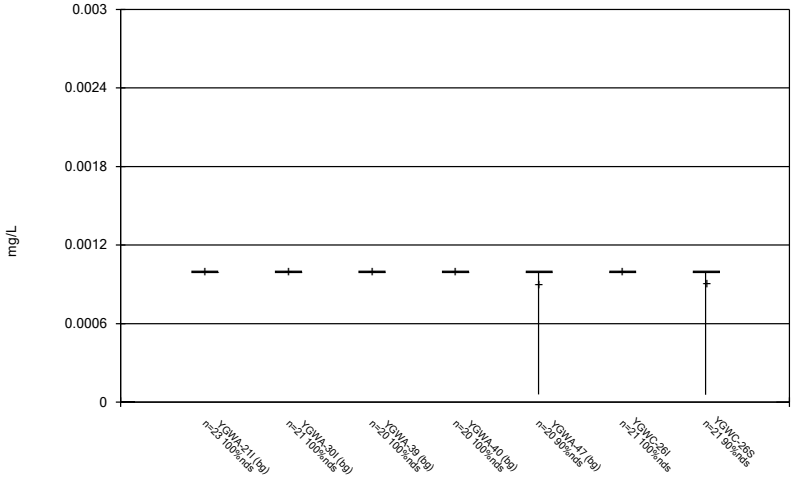


Constituent: Thallium Analysis Run 5/21/2025 2:51 PM

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot

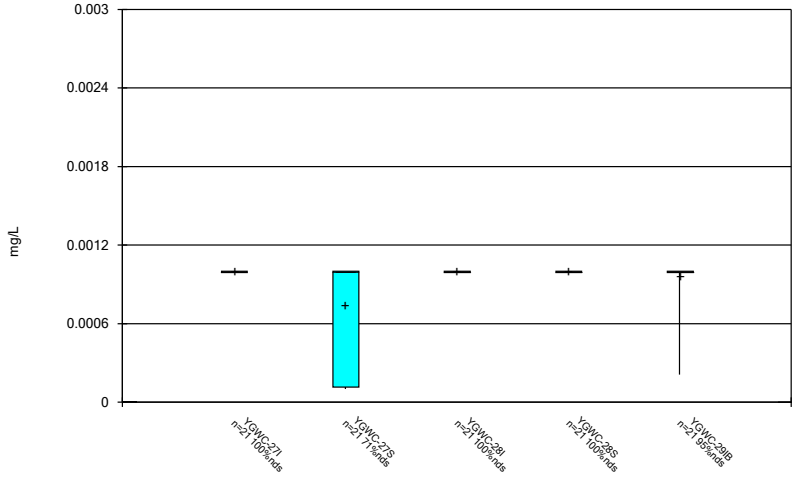


Constituent: Thallium Analysis Run 5/21/2025 2:51 PM

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Thallium Analysis Run 5/21/2025 2:51 PM

Plant Yates Client: Southern Company Data: Yates AP-2

FIGURE C.

Outlier Summary

Plant Yates Client: Southern Company Data: Yates AP-2 Printed 5/21/2025, 6:26 PM

	GWA-2 Cobalt (mg/L)	YGWA-21I Cobalt (mg/L)	YGWC-26I Combined Radium 226 + 228 (pCi/L)	YGWC-27S Sulfate (mg/L)	YGWA-5D TDS (mg/L)
6/8/2016			6.68 (o)		
8/26/2020	0.2 (O)				
9/22/2020	0.16 (O)				
3/2/2021	0.21 (O)				
3/3/2021				451 (o)	
8/20/2021	0.074 (O)				
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 AP-2 Printed 5/21/2025, 6:32 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-26I**	**0.16**	**n/a**	**2/27/2025**	**0.75**	**Yes**	**443**	**n/a**	**n/a**	**51.92**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-26S**	**0.16**	**n/a**	**2/27/2025**	**0.78**	**Yes**	**443**	**n/a**	**n/a**	**51.92**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-27I**	**0.16**	**n/a**	**2/26/2025**	**2.1**	**Yes**	**443**	**n/a**	**n/a**	**51.92**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-27S**	**0.16**	**n/a**	**2/27/2025**	**0.94**	**Yes**	**443**	**n/a**	**n/a**	**51.92**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-28I**	**0.16**	**n/a**	**2/26/2025**	**1.9**	**Yes**	**443**	**n/a**	**n/a**	**51.92**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-28S**	**0.16**	**n/a**	**2/26/2025**	**2.5**	**Yes**	**443**	**n/a**	**n/a**	**51.92**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-29IB**	**0.16**	**n/a**	**2/26/2025**	**0.92**	**Yes**	**443**	**n/a**	**n/a**	**51.92**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Chloride (mg/L)	**YGWC-26I**	**12.7**	**n/a**	**2/27/2025**	**14.8**	**Yes**	**448**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-26S**	**12.7**	**n/a**	**2/27/2025**	**13.5**	**Yes**	**448**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-28S**	**12.7**	**n/a**	**2/26/2025**	**16.3**	**Yes**	**448**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**

Appendix III Interwell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Yates AP-2 Printed 5/21/2025, 6:32 PM

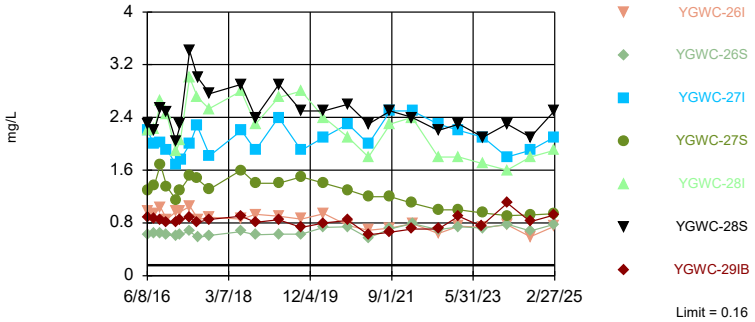
Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**YGWC-26I**	**0.16**	**n/a**	**2/27/2025**	**0.75**	**Yes**	**443**	**n/a**	**n/a**	**51.92**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-26S**	**0.16**	**n/a**	**2/27/2025**	**0.78**	**Yes**	**443**	**n/a**	**n/a**	**51.92**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-27I**	**0.16**	**n/a**	**2/26/2025**	**2.1**	**Yes**	**443**	**n/a**	**n/a**	**51.92**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-27S**	**0.16**	**n/a**	**2/27/2025**	**0.94**	**Yes**	**443**	**n/a**	**n/a**	**51.92**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-28I**	**0.16**	**n/a**	**2/26/2025**	**1.9**	**Yes**	**443**	**n/a**	**n/a**	**51.92**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-28S**	**0.16**	**n/a**	**2/26/2025**	**2.5**	**Yes**	**443**	**n/a**	**n/a**	**51.92**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-29IB**	**0.16**	**n/a**	**2/26/2025**	**0.92**	**Yes**	**443**	**n/a**	**n/a**	**51.92**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Calcium (mg/L)	YGWC-26I	37	n/a	2/27/2025	15.7	No	449	n/a	n/a	0.6682	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-26S	37	n/a	2/27/2025	10.2	No	449	n/a	n/a	0.6682	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-27I	37	n/a	2/26/2025	25.9	No	449	n/a	n/a	0.6682	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-27S	37	n/a	2/27/2025	20.7	No	449	n/a	n/a	0.6682	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-28I	37	n/a	2/26/2025	29.7	No	449	n/a	n/a	0.6682	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-28S	37	n/a	2/26/2025	28.4	No	449	n/a	n/a	0.6682	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-29IB	37	n/a	2/26/2025	11.1	No	449	n/a	n/a	0.6682	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	**YGWC-26I**	**12.7**	**n/a**	**2/27/2025**	**14.8**	**Yes**	**448**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-26S**	**12.7**	**n/a**	**2/27/2025**	**13.5**	**Yes**	**448**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	YGWC-27I	12.7	n/a	2/26/2025	11.6	No	448	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-27S	12.7	n/a	2/27/2025	11.8	No	448	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-28I	12.7	n/a	2/26/2025	10.1	No	448	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	**YGWC-28S**	**12.7**	**n/a**	**2/26/2025**	**16.3**	**Yes**	**448**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	YGWC-29IB	12.7	n/a	2/26/2025	9.7	No	448	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Fluoride (mg/L)	YGWC-26I	1.1	n/a	2/27/2025	0.087J	No	518	n/a	n/a	54.25	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-26S	1.1	n/a	2/27/2025	0.069J	No	518	n/a	n/a	54.25	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-27I	1.1	n/a	2/26/2025	0.059J	No	518	n/a	n/a	54.25	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-27S	1.1	n/a	2/27/2025	0.12	No	518	n/a	n/a	54.25	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-28I	1.1	n/a	2/26/2025	0.067J	No	518	n/a	n/a	54.25	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-28S	1.1	n/a	2/26/2025	0.13	No	518	n/a	n/a	54.25	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-29IB	1.1	n/a	2/26/2025	0.059J	No	518	n/a	n/a	54.25	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
pH, Field (SU)	YGWC-26I	8.39	4.4	2/27/2025	5.85	No	527	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH, Field (SU)	YGWC-26S	8.39	4.4	2/27/2025	5.54	No	527	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH, Field (SU)	YGWC-27I	8.39	4.4	2/26/2025	6.63	No	527	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH, Field (SU)	YGWC-27S	8.39	4.4	2/27/2025	6.23	No	527	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH, Field (SU)	YGWC-28I	8.39	4.4	2/26/2025	6.67	No	527	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH, Field (SU)	YGWC-28S	8.39	4.4	2/26/2025	6.45	No	527	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH, Field (SU)	YGWC-29IB	8.39	4.4	2/26/2025	5.94	No	527	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-26I	160	n/a	2/27/2025	77.5	No	449	n/a	n/a	4.454	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-26S	160	n/a	2/27/2025	83.3	No	449	n/a	n/a	4.454	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-27I	160	n/a	2/26/2025	4	No	449	n/a	n/a	4.454	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-27S	160	n/a	2/27/2025	12.4	No	449	n/a	n/a	4.454	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-28I	160	n/a	2/26/2025	8.8	No	449	n/a	n/a	4.454	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-28S	160	n/a	2/26/2025	2	No	449	n/a	n/a	4.454	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-29IB	160	n/a	2/26/2025	40.9	No	449	n/a	n/a	4.454	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
TDS (mg/L)	YGWC-26I	319	n/a	2/27/2025	213	No	442	n/a	n/a	0.4525	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
TDS (mg/L)	YGWC-26S	319	n/a	2/27/2025	181	No	442	n/a	n/a	0.4525	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
TDS (mg/L)	YGWC-27I	319	n/a	2/26/2025	186	No	442	n/a	n/a	0.4525	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
TDS (mg/L)	YGWC-27S	319	n/a	2/27/2025	133	No	442	n/a	n/a	0.4525	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
TDS (mg/L)	YGWC-28I	319	n/a	2/26/2025	202	No	442	n/a	n/a	0.4525	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
TDS (mg/L)	YGWC-28S	319	n/a	2/26/2025	217	No	442	n/a	n/a	0.4525	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
TDS (mg/L)	YGWC-29IB	319	n/a	2/26/2025	148	No	442	n/a	n/a	0.4525	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Exceeds Limit: YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S, YGWC-29IB

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 = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

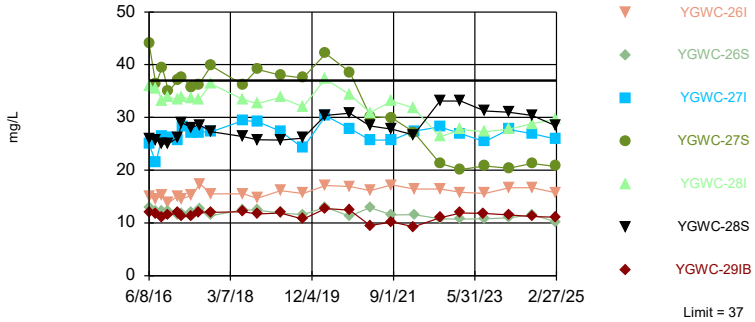
Constituent: Boron Analysis Run 5/21/2025 6:28 PM View: Appendix III Interwell
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

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 449 background values. 0.6682% NDs. Annual per-constituent alpha = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

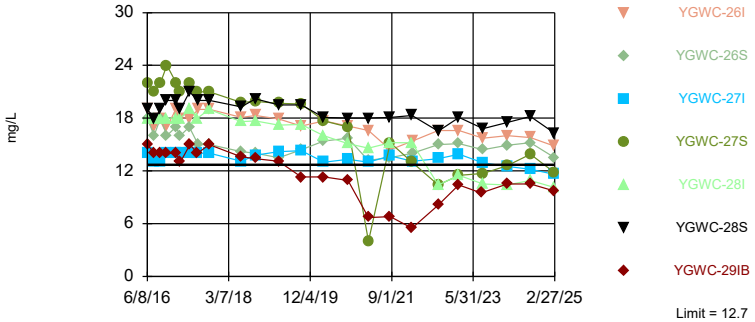
Constituent: Calcium Analysis Run 5/21/2025 6:29 PM View: Appendix III Interwell
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Exceeds Limit: YGWC-26I, YGWC-26S, YGWC-28S

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 = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

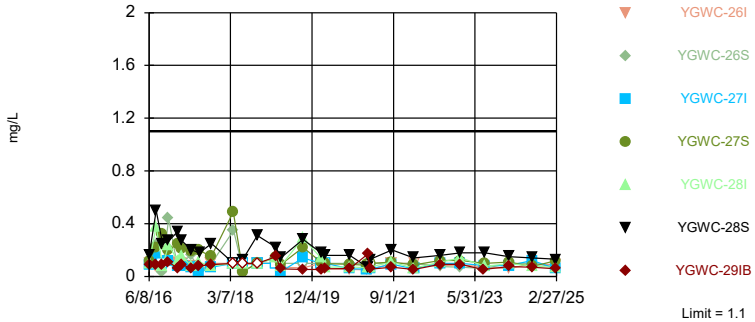
Constituent: Chloride Analysis Run 5/21/2025 6:29 PM View: Appendix III Interwell
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
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 = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

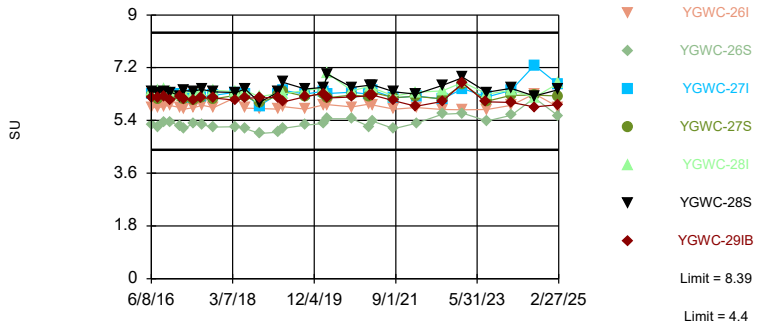
Constituent: Fluoride Analysis Run 5/21/2025 6:29 PM View: Appendix III Interwell
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

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 = 0.001377. Individual comparison alpha = 0.00009836 (1 of 2). Comparing 7 points to limit.

Constituent: pH, Field Analysis Run 5/21/2025 6:29 PM View: Appendix III Interwell

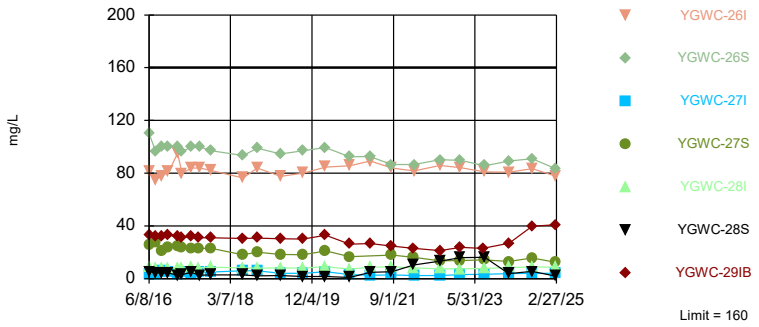
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

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 449 background values. 4.454% NDs. Annual per-constituent alpha = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

Constituent: Sulfate Analysis Run 5/21/2025 6:29 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

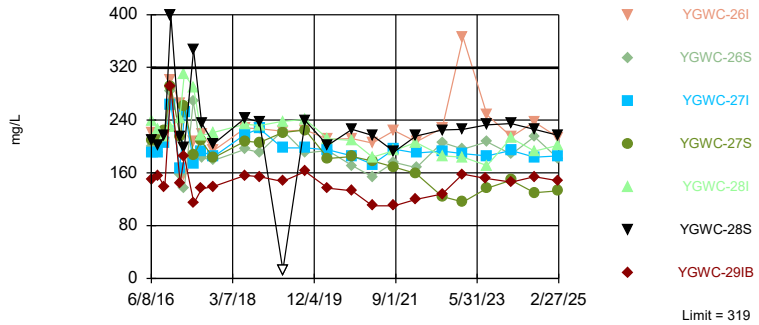
Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

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 442 background values. 0.4525% NDs. Annual per-constituent alpha = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

Constituent: TDS Analysis Run 5/21/2025 6:29 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/21/2025 6:32 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-3D (bg)
6/1/2016	<0.04	<0.04	<0.04						
6/2/2016				<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
6/6/2016									
6/7/2016									
6/8/2016									
6/9/2016									
7/25/2016	<0.04	<0.04				<0.04			
7/26/2016			0.0055 (J)	0.0047 (J)	0.0052 (J)		<0.04	0.0177 (J)	0.0097 (J)
7/27/2016									
7/28/2016									
8/1/2016									
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016		<0.04	<0.04						
9/14/2016	<0.04			<0.04	0.0071 (J)		0.01 (J)		
9/15/2016								0.0214 (J)	0.0102 (J)
9/16/2016									
9/19/2016						<0.04			
9/20/2016									
9/21/2016									
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		
11/7/2016									
11/8/2016									
11/14/2016									
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			
1/18/2017									
1/19/2017									
2/21/2017						<0.04			
2/22/2017									
2/23/2017									
2/24/2017									
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)	
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)				
5/2/2017							<0.04		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/21/2025 6:32 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-3D (bg)
5/3/2017									
5/5/2017									
5/8/2017									
5/26/2017									
6/27/2017		0.006 (J)	0.0087 (J)		0.0079 (J)		<0.04		
6/28/2017	<0.04								<0.04
6/29/2017				<0.04					
6/30/2017						<0.04		0.0173 (J)	
7/5/2017									
7/7/2017									
7/10/2017									
7/11/2017									
7/17/2017									
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									
10/9/2017									
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									
4/2/2018									
4/3/2018									
6/5/2018			0.0052 (J)						
6/6/2018		<0.04			0.0098 (J)				
6/7/2018				0.0045 (J)			<0.04		0.004 (J)
6/8/2018	<0.04							0.013 (J)	
6/11/2018						0.014 (J)			
6/12/2018									
6/13/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018				0.005 (J)	0.01 (J)		0.0057 (J)		
10/1/2018	<0.04	0.0049 (J)	0.021 (J)					0.015 (J)	<0.04
10/2/2018						<0.04			
10/3/2018									
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

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/21/2025 6:32 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-3D (bg)
4/2/2019									
4/3/2019				0.0055 (J)	0.0076 (J)		0.0044 (J)		
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		<0.04		0.018 (J)	0.0054 (J)
9/26/2019									
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020		0.0087 (J)						0.02 (J)	
3/19/2020	0.0053 (J)		0.0085 (J)			0.0052 (J)			0.0073 (J)
3/20/2020									
3/24/2020					0.011 (J)		0.0068 (J)		
3/25/2020				0.011 (J)					
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)	
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									
8/26/2021				<0.04	0.009 (J)		<0.04		
8/27/2021	<0.04								
9/1/2021									
9/3/2021									
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		
8/2/2023									
8/15/2023		0.0094 (J)	<0.04	<0.04	<0.04		<0.04	0.017 (J)	<0.04
8/16/2023	<0.04					<0.04			
8/17/2023									
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)	
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									
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									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/21/2025 6:32 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-26S	YGWC-26I	YGWC-27S	YGWC-27I
6/1/2016									
6/2/2016									
6/6/2016	<0.04	<0.04							
6/7/2016			<0.04	0.036 (J)	<0.04				
6/8/2016						0.62	0.97	1.3	2.2
6/9/2016									
7/25/2016									
7/26/2016									
7/27/2016	0.0059 (J)	<0.04	<0.04	0.008 (J)					
7/28/2016					0.0096 (J)				
8/1/2016						0.643	0.932	1.36	2
8/2/2016									
8/30/2016									
8/31/2016									
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						0.644	1.04	1.69	2.02
9/21/2016									
11/1/2016									
11/2/2016			<0.04						
11/3/2016	0.0082 (J)	<0.04		0.0077 (J)	<0.04				
11/4/2016									
11/7/2016						0.621	0.852	1.35	1.91
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	0.0096 (J)	<0.04		0.0092 (J)					
1/12/2017									
1/13/2017			<0.04		<0.04				
1/16/2017									
1/18/2017						0.607	0.972		1.69
1/19/2017								1.15	
2/21/2017						0.624	0.972		
2/22/2017								1.3	
2/23/2017									1.76
2/24/2017									
3/1/2017	0.0098 (J)	<0.04							
3/2/2017				0.0095 (J)					
3/3/2017									
3/6/2017			<0.04		<0.04				
3/7/2017									
3/8/2017									
4/26/2017	0.0091 (J)	<0.04	<0.04		<0.04				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017				<0.04					

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/21/2025 6:32 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-26S	YGWC-26I	YGWC-27S	YGWC-27I
5/3/2017						0.676			
5/5/2017									
5/8/2017							1.05	1.51	2
5/26/2017									
6/27/2017									
6/28/2017	0.0079 (J)	<0.04							
6/29/2017			<0.04	0.0074 (J)	<0.04				
6/30/2017								1.47	2.28
7/5/2017									
7/7/2017									
7/10/2017						0.58	0.855		
7/11/2017									
7/17/2017									
10/3/2017					<0.04				
10/4/2017	0.009 (J)		<0.04	0.0077 (J)					
10/5/2017		<0.04							
10/6/2017								1.31	
10/9/2017									1.82
10/10/2017						0.612	0.887		
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
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								1.6	
6/13/2018						0.67	0.86		2.2
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018	0.007 (J)	0.0046 (J)	<0.04	0.0096 (J)	0.0054 (J)				
9/26/2018									
10/1/2018									
10/2/2018						0.62	0.93	1.4	1.9
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019								1.4	2.4

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/21/2025 6:32 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-26S	YGWC-26I	YGWC-27S	YGWC-27I
4/2/2019				0.0066 (J)	0.011 (J)	0.63	0.9		
4/3/2019	0.0053 (J)	<0.04	<0.04						
6/12/2019									
9/24/2019					0.018 (J)				
9/25/2019			<0.04	0.0081 (J)		0.63	0.86		
9/26/2019	0.0072 (J)	0.0062 (J)						1.5	1.9
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020									
3/19/2020						0.73			
3/20/2020							0.94	1.4	2.1
3/24/2020	0.01 (J)	0.0054 (J)	<0.04	0.0092 (J)	0.016 (J)				
3/25/2020									
9/22/2020									
9/23/2020	0.006 (J)	0.021 (J)		0.0066 (J)					
9/24/2020			0.0094 (J)		0.013 (J)	0.74	0.76	1.3	2.3
9/25/2020									
3/1/2021									
3/2/2021						0.57			
3/3/2021	0.0094 (J)	<0.04	<0.04	0.01 (J)			0.69	1.2	2
3/4/2021					0.0079 (J)				
8/19/2021						0.71			
8/20/2021							0.72	1.2	2.5
8/26/2021	<0.04								
8/27/2021		<0.04	<0.04	0.011 (J)					
9/1/2021					<0.04				
9/3/2021									
2/8/2022								1.1	
2/9/2022	<0.04	<0.04	<0.04	0.0098 (J)	<0.04				
2/10/2022						0.79	0.79		2.5
2/11/2022									
8/30/2022	0.014 (J)	<0.04		0.013 (J)	0.012 (J)				
8/31/2022			<0.04			0.7	0.64		
9/1/2022								1	2.3
2/7/2023	<0.04	<0.04	<0.04	0.014 (J)	<0.04				
2/8/2023									
2/9/2023						0.74	0.75	1	2.2
8/2/2023									
8/15/2023	<0.04	<0.04	<0.04	<0.04	0.046 (J)				
8/16/2023									
8/17/2023						0.72	0.73	0.95	2.1
2/20/2024		<0.04	<0.04	<0.04	<0.04				
2/21/2024								0.91	1.8
2/22/2024						0.78	0.77		
2/23/2024	0.018 (J)								
8/20/2024		<0.04	<0.04	<0.04	<0.04				
8/21/2024	<0.04					0.68	0.59		1.9
8/22/2024								0.92	
2/25/2025	<0.04	<0.04	<0.04	0.0093 (J)	0.0066 (J)				
2/26/2025									2.1
2/27/2025						0.78	0.75	0.94	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/21/2025 6:32 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-28S	YGWC-28I	YGWC-29IB	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/1/2016								
6/2/2016								
6/6/2016								
6/7/2016								
6/8/2016								
6/9/2016	2.3	2.2	0.88					
7/25/2016								
7/26/2016								
7/27/2016								
7/28/2016								
8/1/2016								
8/2/2016	2.21	2.22	0.872					
8/30/2016				0.0166 (J)				
8/31/2016					0.0315 (J)			
9/13/2016								
9/14/2016						<0.04		
9/15/2016								
9/16/2016								
9/19/2016								
9/20/2016								
9/21/2016	2.54	2.65	0.853					
11/1/2016								
11/2/2016								
11/3/2016								
11/4/2016						<0.04		
11/7/2016	2.49		0.815					
11/8/2016		2.44						
11/14/2016				0.0166 (J)				
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		
1/18/2017	2.04	1.88						
1/19/2017			0.803					
2/21/2017	2.29							
2/22/2017		2.05	0.855		<0.04			
2/23/2017								
2/24/2017				0.0145 (J)				
3/1/2017								
3/2/2017								
3/3/2017						<0.04		
3/6/2017								
3/7/2017								
3/8/2017								
4/26/2017								
4/27/2017								
4/28/2017						<0.04		
5/1/2017								
5/2/2017								

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/21/2025 6:32 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-28S	YGWC-28I	YGWC-29IB	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
5/3/2017								
5/5/2017	3.41	3.01						
5/8/2017			0.884	0.0141 (J)	0.0084 (J)			
5/26/2017						<0.04		
6/27/2017								
6/28/2017						<0.04		
6/29/2017								
6/30/2017								
7/5/2017		2.7	0.811					
7/7/2017	3.01							
7/10/2017								
7/11/2017				0.0131 (J)				
7/17/2017					0.0092 (J)			
10/3/2017						<0.04		
10/4/2017								
10/5/2017		2.53	0.851					
10/6/2017								
10/9/2017	2.76							
10/10/2017				0.0124 (J)				
10/11/2017							0.0135 (J)	
10/12/2017								0.0401
10/16/2017					<0.04			
11/20/2017							0.0251 (J)	0.156
1/10/2018								0.15
1/11/2018							0.0255 (J)	
2/19/2018					<0.04			0.15
2/20/2018							<0.04	
4/2/2018				0.013 (J)				
4/3/2018							0.033 (J)	0.12
6/5/2018								
6/6/2018								
6/7/2018						<0.04		
6/8/2018								
6/11/2018			0.9					
6/12/2018	2.9	2.8						
6/13/2018								
6/28/2018							0.053	0.16
8/6/2018					<0.04			
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								
9/26/2018								
10/1/2018						<0.04		
10/2/2018			0.81					
10/3/2018	2.4	2.3						
2/25/2019					<0.04			
3/26/2019								0.096
3/27/2019				0.013 (J)			0.017 (J)	
3/28/2019								
3/29/2019						0.0065 (J)		
4/1/2019		2.7	0.85					

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/21/2025 6:32 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-28S	YGWC-28I	YGWC-29IB	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
4/2/2019	2.9							
4/3/2019								
6/12/2019					<0.04			
9/24/2019						0.0076 (J)		
9/25/2019			0.73					
9/26/2019	2.5	2.8						
10/8/2019				0.012 (J)	<0.04			
10/9/2019							0.017 (J)	0.079
3/17/2020				0.023 (J)	0.0051 (J)			
3/18/2020								
3/19/2020	2.5	2.4				0.0073 (J)		
3/20/2020			0.8					
3/24/2020								0.088 (J)
3/25/2020							0.043 (J)	
9/22/2020				0.0076 (J)	0.0079 (J)			
9/23/2020						<0.04		
9/24/2020	2.6	2.1	0.84				0.037 (J)	0.087 (J)
9/25/2020								
3/1/2021				0.013 (J)				
3/2/2021					<0.04			
3/3/2021	2.3	1.8	0.62			<0.04		
3/4/2021							0.033 (J)	0.078
8/19/2021				0.011 (J)				
8/20/2021	2.5	2.3	0.66		<0.04			
8/26/2021							0.095	
8/27/2021						<0.04		
9/1/2021								
9/3/2021								0.077
2/8/2022	2.4	2.4	0.71	0.015 (J)	<0.04		0.13	0.074
2/9/2022						<0.04		
2/10/2022								
2/11/2022								
8/30/2022					<0.04	<0.04		
8/31/2022				0.0091 (J)			0.14	0.062
9/1/2022	2.2	1.8	0.71					
2/7/2023					<0.04	<0.04	0.13	
2/8/2023			0.9	0.011 (J)				0.057
2/9/2023	2.3	1.8						
8/2/2023			0.75					
8/15/2023				<0.04	<0.04	<0.04	0.15 (J)	0.052 (J)
8/16/2023	2.1	1.7						
8/17/2023								
2/20/2024				0.023 (J)	0.017 (J)	<0.04	0.12	0.056
2/21/2024	2.3	1.6						
2/22/2024			1.1					
2/23/2024								
8/20/2024				<0.04		<0.04		
8/21/2024							0.13	0.061
8/22/2024	2.1	1.8	0.82					
2/25/2025				0.014 (J)		<0.04	0.13	0.061
2/26/2025	2.5	1.9	0.92					
2/27/2025								

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/21/2025 6:32 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-4I (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-5D (bg)
6/1/2016	2.5	12	21						
6/2/2016				1.3	28	8.8	2.4	1.3	33
6/6/2016									
6/7/2016									
6/8/2016									
6/9/2016									
7/25/2016	2.16		20.3	1.17					
7/26/2016		11			24.5	7.69	2.12	1.24	32.3
7/27/2016									
7/28/2016									
8/1/2016									
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016	2.21	11.8							
9/14/2016			19.7			8.49	2.18		31
9/15/2016					27			1.17	
9/16/2016									
9/19/2016				1.05					
9/20/2016									
9/21/2016									
11/1/2016		11	18.4	1.14	25.6				
11/2/2016						7.83		1.23	30.9
11/3/2016									
11/4/2016	2.67						2.17 (J)		
11/7/2016									
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017								1.24	
1/11/2017		11.2	20.3		27.5				
1/12/2017							2.37		35.7
1/13/2017						8.08			
1/16/2017	2.45			1.23					
1/18/2017									
1/19/2017									
2/21/2017				1.25					
2/22/2017									
2/23/2017									
2/24/2017									
3/1/2017			18.6						
3/2/2017	2.57	11			27.5				
3/3/2017									
3/6/2017						8.64			
3/7/2017							2.34		32.7
3/8/2017								1.21	
4/26/2017			25.6	1.03	30.4			1.14	
4/27/2017	2.38	11.1							
4/28/2017									
5/1/2017						13.4			37
5/2/2017							2.17		

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/21/2025 6:32 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-4I (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-5D (bg)
5/3/2017									
5/5/2017									
5/8/2017									
5/26/2017									
6/27/2017	2.36	13.8					2.13		36.5
6/28/2017			23.9		29.8				
6/29/2017						8.81			
6/30/2017				1.13				1.24	
7/5/2017									
7/7/2017									
7/10/2017									
7/11/2017									
7/17/2017									
10/3/2017	2.21	14					2.15		30.9
10/4/2017			22.1	1.09	29.7				
10/5/2017						9.29		1.11	
10/6/2017									
10/9/2017									
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									
4/2/2018									
4/3/2018									
6/5/2018		15.2 (J)							
6/6/2018	2.3								26.2
6/7/2018					29.1	8.2	2.3		
6/8/2018			21.9 (J)					1.1	
6/11/2018				1.1					
6/12/2018									
6/13/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018						9.5 (J)	2.3		25.8
10/1/2018	1.8	15.1	19.7		26.9			0.99	
10/2/2018				1.1					
10/3/2018									
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)	1.3	30.1				

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/21/2025 6:32 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-4I (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-5D (bg)
4/2/2019									
4/3/2019						8.4	2.8		24.7 (J)
6/12/2019									
9/24/2019	2.3	15.8					2.5		25.8
9/25/2019			22.4	1.1	29.5	9.5		1.1	
9/26/2019									
10/8/2019									
10/9/2019									
10/10/2019						9.9	2.4		24.2
3/17/2020									
3/18/2020	2.1							1.1	
3/19/2020		15	21.9	1.2	31.5				
3/20/2020									
3/24/2020							2.5		26.1
3/25/2020						10.5			
9/22/2020						9.6	2.6		27.2
9/23/2020	1.8	14.1	23.6		28.6				
9/24/2020				1.1					
9/25/2020								1.3	
3/1/2021				1.2					
3/2/2021							2.6	1.2	1.6
3/3/2021	1.8	14.1	20.6		29.8	7.7			
3/4/2021									
8/19/2021	2	14.2		1.2	28.1			1.2	
8/20/2021									
8/26/2021						7.6	2.5		25.2
8/27/2021			24.7						
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	2.1	14.9	23.7		30.3				
2/10/2022							2.5	1.3	24.8
2/11/2022				1.5		7.5			
8/30/2022		14.9					2.5		24.8
8/31/2022	1.9		23.5	1.3	28.7	8.9		1.3	
9/1/2022									
2/7/2023	2.2	15							26.6
2/8/2023			23.3	1.3	28.9			1.5	
2/9/2023						9.6	2.8		
8/2/2023									
8/15/2023	1.8	13.5			27.4	7.8	2.6	1.3	25
8/16/2023			24.9	1.4					
8/17/2023									
2/20/2024	2.2	15.3	23.7	1.3	30.7	9.9	2.7		27.2
2/21/2024									
2/22/2024									
2/23/2024								1.6	
8/20/2024	1.9	17.7	23.4	1.4	30	9.1	3.2	1.3	29.1
8/21/2024									
8/22/2024									
2/25/2025	1.8	16.4	21.2	1.4	27.9	8.1	2.8	1.3	25.9
2/26/2025									

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-4I (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-5D (bg)
2/27/2025									

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-27S	YGWC-26I	YGWC-27I	YGWC-26S
6/1/2016									
6/2/2016									
6/6/2016	6.2	1.4							
6/7/2016			2.3	2.2	3.7				
6/8/2016						44	15	25	13
6/9/2016									
7/25/2016									
7/26/2016									
7/27/2016	4.73	1.19	2.08	2					
7/28/2016					3.15				
8/1/2016						36.3	14.5	21.4	12.2
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016		1.5		1.97					
9/19/2016	4.76		1.97		3.17				
9/20/2016						39.5	15.3	26.3	12.2
9/21/2016									
11/1/2016									
11/2/2016			2.13						
11/3/2016	5.25	1.31		1.99	3.4				
11/4/2016									
11/7/2016						34.9	13.8	26.1	12.1
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	4.74	1.25		2.28					
1/12/2017									
1/13/2017			2.45		4.98				
1/16/2017									
1/18/2017							15.1	25.6	11.5
1/19/2017						37			
2/21/2017							14.6		11.7
2/22/2017						37.6			
2/23/2017								28.2	
2/24/2017									
3/1/2017	5.37	1.26							
3/2/2017				2.15					
3/3/2017									
3/6/2017			2.48		6.28				
3/7/2017									
3/8/2017									
4/26/2017	4.28	1.05	2.3		6.65				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017				1.95					

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-27S	YGWC-26I	YGWC-27I	YGWC-26S
5/3/2017									11.9
5/5/2017									
5/8/2017						35.7	15.2	27.2	
5/26/2017									
6/27/2017									
6/28/2017	4.95	1.06							
6/29/2017			2.54	2.02	6.04				
6/30/2017						36.2		27.2	
7/5/2017									
7/7/2017									
7/10/2017							17.4		12.7
7/11/2017									
7/17/2017									
10/3/2017					8.28				
10/4/2017		1.1	2.25	2.03					
10/5/2017	5.28								
10/6/2017						39.8			
10/9/2017								27.3	
10/10/2017							15.5		11.4
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
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						36.2			
6/13/2018							15.5	29.4	12.5
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018	4.6	1	2.3	2.1	10.4 (J)				
9/26/2018									
10/1/2018									
10/2/2018						39.1	14.7	29.2	12.4 (J)
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019						38		27.4	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-27S	YGWC-26I	YGWC-27I	YGWC-26S
4/2/2019				2.5	8.8		16.1 (J)		11.9 (J)
4/3/2019	5.3	1.2	2.9						
6/12/2019									
9/24/2019					7.7				
9/25/2019			2.4	2.6			15.6		11.6
9/26/2019	5.075 (D)	1.085 (D)				37.5		24.2	
10/8/2019									
10/9/2019									
10/10/2019			2.6	2.4	5.6				
3/17/2020									
3/18/2020									
3/19/2020									13
3/20/2020						42.1	17.1	30.3	
3/24/2020	5.3	1	2.6	2.7	6				
3/25/2020									
9/22/2020									
9/23/2020	5.2	0.91 (J)		2.6					
9/24/2020			2.6		7.8	38.6	16.9	27.9	11.3
9/25/2020									
3/1/2021									
3/2/2021									12.9
3/3/2021	5.2	0.96 (J)	2.4	2.5		30.2	16.1	25.7	
3/4/2021					8.7				
8/19/2021									11.5
8/20/2021						29.9	17.2	25.7	
8/26/2021		0.98 (J)							
8/27/2021	5.1		2.4	2.7					
9/1/2021					9.5				
9/3/2021									
2/8/2022						27.2			
2/9/2022	5.1	0.87 (J)	2.3	2.8	9.8				
2/10/2022							16.4	27.4	11.6
2/11/2022									
8/30/2022	5.7	0.77 (J)		3	7.3				
8/31/2022			2.4				16.4		10.8
9/1/2022						21.3		28.2	
2/7/2023	5.5	0.79 (J)	2.4	2.9	7.5				
2/8/2023									
2/9/2023						20.1	15.8	26.9	10.7
8/2/2023									
8/15/2023	5.1	0.8 (J)	2.2	2.9	6.1				
8/16/2023									
8/17/2023						20.8	15.6	25.4	10.8
2/20/2024	5.6		2.5	3.2	7				
2/21/2024						20.4		27.7	
2/22/2024							16.7		11
2/23/2024		0.84 (J)							
8/20/2024	5.9		2.8	3.5	6.9				
8/21/2024		0.96 (J)					16.7	26.9	11.6
8/22/2024						21.3			
2/25/2025	5.3	0.88 (J)	2.6	3	6				
2/26/2025								25.9	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell
Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-27S	YGWC-26I	YGWC-27I	YGWC-26S
2/27/2025						20.7	15.7		10.2

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell
Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-28I	YGWC-29IB	YGWC-28S	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/1/2016								
6/2/2016								
6/6/2016								
6/7/2016								
6/8/2016								
6/9/2016	36	12	26					
7/25/2016								
7/26/2016								
7/27/2016								
7/28/2016								
8/1/2016								
8/2/2016	35.5	11.7	25.8					
8/30/2016				20.9				
8/31/2016					9.31			
9/13/2016								
9/14/2016						23.5		
9/15/2016								
9/16/2016								
9/19/2016								
9/20/2016								
9/21/2016	33.2	11.1	24.9					
11/1/2016								
11/2/2016								
11/3/2016								
11/4/2016						23.7		
11/7/2016		11.4	25.1					
11/8/2016	33.8							
11/14/2016				18.6				
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		
1/18/2017	33.4		26.1					
1/19/2017		12						
2/21/2017			29					
2/22/2017	33.8	11.2			10.4			
2/23/2017								
2/24/2017				16.1				
3/1/2017								
3/2/2017								
3/3/2017						25.1		
3/6/2017								
3/7/2017								
3/8/2017								
4/26/2017								
4/27/2017								
4/28/2017						30.7		
5/1/2017								
5/2/2017								

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-28I	YGWC-29IB	YGWC-28S	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
5/3/2017								
5/5/2017	33.5		28.1					
5/8/2017		11.2		14.6	14.2			
5/26/2017						26.2		
6/27/2017								
6/28/2017						26.1		
6/29/2017								
6/30/2017								
7/5/2017	33.4	11.9						
7/7/2017			28.6					
7/10/2017								
7/11/2017				14.3				
7/17/2017					14.1			
10/3/2017						26.7		
10/4/2017								
10/5/2017	36.4	12						
10/6/2017								
10/9/2017			27.3					
10/10/2017				12.1				
10/11/2017							2.74	
10/12/2017								2.9
10/16/2017					13.6			
11/20/2017							1.81	10.4
1/10/2018								10.2
1/11/2018							1.54	
2/19/2018					<25			<25
2/20/2018							1.7	
4/2/2018				<25				
4/3/2018							1.4	6.3
6/5/2018								
6/6/2018								
6/7/2018						25		
6/8/2018								
6/11/2018		12.1						
6/12/2018	33.4		26.4					
6/13/2018								
6/28/2018							1.4	6.7
8/6/2018					11.4 (J)			
8/7/2018							1.2	6.3
9/19/2018				11.1 (J)				
9/24/2018							1.1	5.7
9/25/2018								
9/26/2018								
10/1/2018						25		
10/2/2018		11.7 (J)						
10/3/2018	32.6		25.8					
2/25/2019					12.7 (J)			
3/26/2019								5.6
3/27/2019				10.8 (J)			1.5	
3/28/2019								
3/29/2019						23.5 (J)		
4/1/2019	33.8	11.9 (J)						

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell
Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-28I	YGWC-29IB	YGWC-28S	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
4/2/2019			25.7					
4/3/2019								
6/12/2019					18.9			
9/24/2019						26.4		
9/25/2019		10.7						
9/26/2019	32		26.1					
10/8/2019				9.7	28.3			
10/9/2019							2.4 (D)	5.05 (D)
10/10/2019								
3/17/2020				14.8	24.3			
3/18/2020								
3/19/2020	37.3		30.4			27.4		
3/20/2020		12.7						
3/24/2020								4.8
3/25/2020							2.7	
9/22/2020				10.1	31			
9/23/2020						26.3		
9/24/2020	34.3	12.4	30.8				3.7	4.4
9/25/2020								
3/1/2021				10.3				
3/2/2021					34.2			
3/3/2021	30.9	9.5	28.4			25.6		
3/4/2021							8.2	4.6
8/19/2021				9.6				
8/20/2021	33.1	10.2	27.8		26.5			
8/26/2021							14.1	
8/27/2021						22.6		
9/1/2021								
9/3/2021								5.6
2/8/2022	31.8	9.3	26.7	9.4	25.6		15.2	6
2/9/2022						23.4		
2/10/2022								
2/11/2022								
8/30/2022					23.5	25.4		
8/31/2022				9.6			16.3	6.2
9/1/2022	26.3	11	33.1					
2/7/2023					22.3	25.6	16.1	
2/8/2023		11.9		9.2				5.9
2/9/2023	27.7		33.1					
8/2/2023		11.8						
8/15/2023				9.6	20.3	23.2	17.2	5.3
8/16/2023	27.3		31.2					
8/17/2023								
2/20/2024				10.3	22.8	28.2	16.9	5.6
2/21/2024	27.8		31					
2/22/2024		11.5						
2/23/2024								
8/20/2024				10		30.4		
8/21/2024							19.7	6
8/22/2024	28.8	11.2	30.4					
2/25/2025				9.9		27.3	17.3	4.8
2/26/2025	29.7	11.1	28.4					

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-28I	YGWC-29IB	YGWC-28S	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
2/27/2025								

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-4I (bg)
6/1/2016	1.6	1.3	1.3						
6/2/2016				4.3	7.2	4.1	1.9	1.4	3.7
6/6/2016									
6/7/2016									
6/8/2016									
6/9/2016									
7/25/2016	1.4		1.3				1.7		
7/26/2016		1.2		4.4	6.6	4		1.6	3.6
7/27/2016									
7/28/2016									
8/1/2016									
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016	1.3	1.1							
9/14/2016			1.3	3.8	6.6				3.4
9/15/2016						4.2		1.5	
9/16/2016									
9/19/2016							1.6		
9/20/2016									
9/21/2016									
11/1/2016		1.3	1.4				1.8	1.7	
11/2/2016					7.6	4.9			4.5
11/3/2016									
11/4/2016	1.6			4.8					
11/7/2016									
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017						4.1			
1/11/2017		1.1	1.1					1.2	
1/12/2017				3.8	6.8				
1/13/2017									4.2
1/16/2017	1.4						1.7		
1/18/2017									
1/19/2017									
2/21/2017							1.7		
2/22/2017									
2/23/2017									
2/24/2017									
3/1/2017			1.1						
3/2/2017	1.3	1						1.2	
3/3/2017									
3/6/2017									3.6
3/7/2017				4.5	6.8				
3/8/2017						4.2			
4/26/2017			1.1			4.1	1.7	1.2	
4/27/2017	1.3	1							
4/28/2017									
5/1/2017					7.2				4.3
5/2/2017				4.6					

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-4I (bg)
5/3/2017									
5/5/2017									
5/8/2017									
5/26/2017									
6/27/2017	1.4	1.1		4.3	7				
6/28/2017			1.2					1.3	
6/29/2017									4.2
6/30/2017						3.7	1.8		
7/5/2017									
7/7/2017									
7/10/2017									
7/11/2017									
7/17/2017									
10/3/2017	1.7	1.1		4.2	6.5				
10/4/2017			1.2				1.8	1.5	
10/5/2017						3.8			4.7
10/6/2017									
10/9/2017									
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									
4/2/2018									
4/3/2018									
6/5/2018		1.1							
6/6/2018	1.4				4.7				
6/7/2018				4.5				1.2	4.4
6/8/2018			1.2			3.4			
6/11/2018							2		
6/12/2018									
6/13/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018				5.1	4.8				4.8
10/1/2018	1.4	1.1	1.2			3.8		1.5	
10/2/2018							1.8		
10/3/2018									
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				1.7	1.2	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-4I (bg)
4/2/2019									
4/3/2019				4.2	4				4.3
6/12/2019									
9/24/2019	1.3	1.1		4.5	3.7				
9/25/2019			1.1			4.8	1.6	1.1	4.5
9/26/2019									
10/8/2019									
10/9/2019									
10/10/2019				1.6	4.3				
3/17/2020									
3/18/2020	1.4					5.2			
3/19/2020		1.1	1.1				1.8	1.2	
3/20/2020									
3/24/2020				4.3	3.5				
3/25/2020									3.9
9/22/2020				4.2	3.6				4.5
9/23/2020	1.2	0.99 (J)	1					1.1	
9/24/2020							1.5		
9/25/2020						5.3			
3/1/2021							1.6		
3/2/2021				4.3	3.2	4.9			
3/3/2021	1.2	0.96 (J)	0.99 (J)					1.1	4.1 (J)
3/4/2021									
8/19/2021	1.3	1.1				5	1.6	1.1	
8/20/2021									
8/26/2021				4.3	3.4				4.4
8/27/2021			1.1						
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	1.3	1	1.1					1.1	
2/10/2022				4.4	3.2	4.7			
2/11/2022							2.1		4.1
8/30/2022		1.3		4.4	3.5				
8/31/2022	1.5		1.3			4.6	1.8	1.3	4.4
9/1/2022									
2/7/2023	1.5	1.3			3.3				
2/8/2023			1.1			4.9	1.6	1.2	
2/9/2023				5					4.5
8/2/2023									
8/15/2023	1.4	1.1		4.1	3.1	4.1		1.1	4.4
8/16/2023			1.1				1.5		
8/17/2023									
2/20/2024	1.2	1	1.1	4.8	3.2		1.4	1.1	4.6
2/21/2024									
2/22/2024									
2/23/2024						4.8			
8/20/2024	1.3	1	1	4.8	3.4	4.5	1.4	1.1	5.2
8/21/2024									
8/22/2024									
2/25/2025	1.1	0.9 (J)	0.9 (J)	4.4	2.8	4.1	1.3	0.94 (J)	4.5
2/26/2025									

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-4I (bg)
2/27/2025									

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-26I
6/1/2016									
6/2/2016									
6/6/2016	6.4	6.8							
6/7/2016			1.9	4.5	2.8				
6/8/2016						18	14	22	19
6/9/2016									
7/25/2016									
7/26/2016									
7/27/2016	6.2	6.7	1.9	4.5					
7/28/2016					2.6				
8/1/2016						16	13	21	17
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016	6.1			4.5					
9/19/2016		7	1.9		2.4				
9/20/2016						18	13	22	18
9/21/2016									
11/1/2016									
11/2/2016			2.6						
11/3/2016	7.4	7.5		5.4	2.9				
11/4/2016									
11/7/2016						16	14	24	17
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	6.1	6.5		4.7					
1/12/2017									
1/13/2017			2.3		2.5				
1/16/2017									
1/18/2017						17	14		19
1/19/2017								22	
2/21/2017						16			18
2/22/2017								21	
2/23/2017							14		
2/24/2017									
3/1/2017	6	6.9							
3/2/2017				4.8					
3/3/2017									
3/6/2017			1.9		2.1				
3/7/2017									
3/8/2017									
4/26/2017	6.5	7	2		2.1				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017				4.6					

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-26I
5/3/2017						17			
5/5/2017									
5/8/2017							14	22	18
5/26/2017									
6/27/2017									
6/28/2017	6.4	7							
6/29/2017			2.6	4.5	2.8				
6/30/2017							14	21	
7/5/2017									
7/7/2017									
7/10/2017						15			19
7/11/2017									
7/17/2017									
10/3/2017					2.2				
10/4/2017	6.8		2.6	4.7					
10/5/2017		7							
10/6/2017								21	
10/9/2017							14		
10/10/2017						15			19
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
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								19.8	
6/13/2018						14.2	13.1		18.1
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018	7.8	7.9	3.6	5.6	2.2				
9/26/2018									
10/1/2018									
10/2/2018						14	13.8	19.9	18.3
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019							14.2	19.7	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-26I
4/2/2019				4.8	2.5	13.5			17.9
4/3/2019	6.3	6.9	3.1						
6/12/2019									
9/24/2019					3.1				
9/25/2019			2.8	5.7		14.4			17.1
9/26/2019	7.1	7					14.3	19.6	
10/8/2019									
10/9/2019									
10/10/2019			3.7	5.8	3.3				
3/17/2020									
3/18/2020									
3/19/2020						15.4			
3/20/2020							13	17.7	17.7
3/24/2020	6.8	7	2.7	5	2.8				
3/25/2020									
9/22/2020									
9/23/2020	7.2	7.2		6.6					
9/24/2020			2.7		2	15.7	13.3	17	17.1
9/25/2020									
3/1/2021									
3/2/2021						13.2			
3/3/2021	7.2	7	2.7	7.1			13	4	16.6
3/4/2021					1.8				
8/19/2021						13.5			
8/20/2021							13.7	15.2	14.4
8/26/2021	7.3								
8/27/2021		7.4	2.8	8.5					
9/1/2021					1.8				
9/3/2021									
2/8/2022								13	
2/9/2022	7	7.5	2.8	10.9	1.7				
2/10/2022						14	13.1		15.4
2/11/2022									
8/30/2022	7	7.9		12	2.4				
8/31/2022			2.9			15			16.6
9/1/2022							13.4	10.4	
2/7/2023	6.4	7.4	2.9	11.4	2.4				
2/8/2023									
2/9/2023						15.1	13.9	11.5	16.6
8/2/2023									
8/15/2023	6.7	7.3	2.8	11.6	2.3				
8/16/2023									
8/17/2023						14.4	12.9	11.7	15.7
2/20/2024		7.6	2.9	12.2	2.3				
2/21/2024							12.5	12.6	
2/22/2024						14.9			16
2/23/2024	6.6								
8/20/2024		7.8	3	12.7	2.3				
8/21/2024	7.4					15.2	12.2		15.8
8/22/2024								13.9	
2/25/2025	6.5	7	2.6	11.4	2				
2/26/2025							11.6		

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-26I
2/27/2025						13.5		11.8	14.8

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-28S	YGWC-28I	YGWC-29IB	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/1/2016								
6/2/2016								
6/6/2016								
6/7/2016								
6/8/2016								
6/9/2016	19	18	15					
7/25/2016								
7/26/2016								
7/27/2016								
7/28/2016								
8/1/2016								
8/2/2016	18	18	14					
8/30/2016				5.2				
8/31/2016					4			
9/13/2016								
9/14/2016						1.1		
9/15/2016								
9/16/2016								
9/19/2016								
9/20/2016								
9/21/2016	19	18	14					
11/1/2016								
11/2/2016								
11/3/2016								
11/4/2016						1.4		
11/7/2016	20		14					
11/8/2016		18						
11/14/2016				6.4				
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		
1/18/2017	20	18						
1/19/2017			14					
2/21/2017	19							
2/22/2017		18	13		3.7			
2/23/2017								
2/24/2017				5.5				
3/1/2017								
3/2/2017								
3/3/2017						1.1		
3/6/2017								
3/7/2017								
3/8/2017								
4/26/2017								
4/27/2017								
4/28/2017						0.91		
5/1/2017								
5/2/2017								

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell
Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-28S	YGWC-28I	YGWC-29IB	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
5/3/2017								
5/5/2017	21	19						
5/8/2017			15	5.8	4.2			
5/26/2017						0.93		
6/27/2017								
6/28/2017						1		
6/29/2017								
6/30/2017								
7/5/2017		18	14					
7/7/2017	20							
7/10/2017								
7/11/2017				5.8				
7/17/2017					3.8			
10/3/2017						1.2		
10/4/2017								
10/5/2017		19	15					
10/6/2017								
10/9/2017	20							
10/10/2017				5.9				
10/11/2017							2.4	
10/12/2017								3.8
10/16/2017					4.2			
11/20/2017							1.8	4.4
1/10/2018								4.6
1/11/2018							1.6	
2/19/2018					4.3			4.6
2/20/2018							2	
4/2/2018				4.8				
4/3/2018							3.3	5.9
6/5/2018								
6/6/2018								
6/7/2018						1		
6/8/2018								
6/11/2018			13.6					
6/12/2018	19.3	17.6						
6/13/2018								
6/28/2018							2.1	5
8/6/2018					3.8			
8/7/2018							1.2	4.3
9/19/2018				4				
9/24/2018							1.3	4.9
9/25/2018								
9/26/2018								
10/1/2018						1.1		
10/2/2018			13.4					
10/3/2018	20.2	17.7						
2/25/2019					4.1			
3/26/2019								4.4
3/27/2019				4.3			1.4	
3/28/2019								
3/29/2019						1.2		
4/1/2019		17.2	13.1					

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell
Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-28S	YGWC-28I	YGWC-29IB	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
4/2/2019	19.5							
4/3/2019								
6/12/2019					4.7			
9/24/2019						0.95 (J)		
9/25/2019			11.3					
9/26/2019	19.5	17.3						
10/8/2019				4.4	5.1			
10/9/2019							2.05 (D)	5.05 (D)
10/10/2019								
3/17/2020				4.1	4.8			
3/18/2020								
3/19/2020	18.1	16				0.97 (J)		
3/20/2020			11.3					
3/24/2020								4.7
3/25/2020							1.9	
9/22/2020				4.2	4.2			
9/23/2020						0.88 (J)		
9/24/2020	18	15.1	10.9				2.7	5
9/25/2020								
3/1/2021				3.7				
3/2/2021					4.1			
3/3/2021	18	14.6	6.7			0.86 (J)		
3/4/2021							4.9	4.9
8/19/2021				3.5				
8/20/2021	18.1	15.2	6.8		5.2			
8/26/2021							7.2	
8/27/2021						0.99 (J)		
9/1/2021								
9/3/2021								5.5
2/8/2022	18.3	15.2	5.5	3.2	5.7		7.4	6.2
2/9/2022						1 (J)		
2/10/2022								
2/11/2022								
8/30/2022					6.3	1.2		
8/31/2022				3.5			6.7	6.3
9/1/2022	16.5	10.4	8.1					
2/7/2023					6.1	1.1	5.6	
2/8/2023			10.4	3.5				6.9
2/9/2023	18.1	11.5						
8/2/2023			9.5					
8/15/2023				3.5	5.6	0.93 (J)	4.5	5.6
8/16/2023	16.8	10.5						
8/17/2023								
2/20/2024				3.2	6.1	0.96 (J)	4.6	5.7
2/21/2024	17.5	10.4						
2/22/2024			10.5					
2/23/2024								
8/20/2024				3.6		0.91 (J)		
8/21/2024							4	5.4
8/22/2024	18.2	10.9	10.5					
2/25/2025				3		0.77 (J)	3.5	4.5
2/26/2025	16.3	10.1	9.7					

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell
Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-28S	YGWC-28I	YGWC-29IB	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
2/27/2025								

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/1/2016	<0.1	0.15 (J)	0.12 (J)						
6/2/2016				0.62	<0.1	<0.1	<0.1	<0.1	0.11 (J)
6/6/2016									
6/7/2016									
6/8/2016									
6/9/2016									
7/25/2016	0.06 (J)	0.14 (J)					0.06 (J)		
7/26/2016			0.08 (J)	0.49	0.02 (J)	<0.1		<0.1	0.05 (J)
7/27/2016									
7/28/2016									
8/1/2016									
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016	<0.1		0.11 (J)						
9/14/2016		0.18 (J)				<0.1		<0.1	0.04 (J)
9/15/2016				0.54	<0.1				
9/16/2016									
9/19/2016							<0.1		
9/20/2016									
9/21/2016									
11/1/2016		0.15 (J)	0.1 (J)	0.68			0.07 (J)		
11/2/2016					0.04 (J)			0.07 (J)	0.2 (J)
11/3/2016									
11/4/2016	0.07 (J)					<0.1			
11/7/2016									
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017					<0.1				
1/11/2017		0.09 (J)	0.05 (J)	0.49					
1/12/2017						<0.1			0.04 (J)
1/13/2017								<0.1	
1/16/2017	0.03 (J)						<0.1		
1/18/2017									
1/19/2017									
2/21/2017							0.05 (J)		
2/22/2017									
2/23/2017									
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						0.03 (J)			0.09 (J)
3/8/2017					0.04 (J)				
4/26/2017		0.08 (J)		0.48	<0.1		<0.1		
4/27/2017	0.01 (J)		0.04 (J)						
4/28/2017									
5/1/2017								<0.1	0.04 (J)
5/2/2017						<0.1			

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-5D (bg)
5/3/2017									
5/5/2017									
5/8/2017									
5/26/2017									
6/27/2017	0.06 (J)		0.06 (J)			<0.1			0.09 (J)
6/28/2017		0.12 (J)		0.47					
6/29/2017								0.02 (J)	
6/30/2017					<0.1		0.01 (J)		
7/5/2017									
7/7/2017									
7/10/2017									
7/11/2017									
7/17/2017									
10/3/2017	<0.1		0.07 (J)			<0.1			0.05 (J)
10/4/2017		0.1 (J)		0.47			<0.1		
10/5/2017					<0.1			<0.1	
10/6/2017									
10/9/2017									
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
3/30/2018									
4/2/2018									
4/3/2018									
6/5/2018			0.055 (J)						
6/6/2018	<0.1								0.15 (J)
6/7/2018				0.48		<0.1		<0.1	
6/8/2018		0.2 (J)			<0.1				
6/11/2018							<0.1		
6/12/2018									
6/13/2018									
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	0.44	<0.1				
10/2/2018							<0.1		
10/3/2018									
2/25/2019									
2/26/2019					<0.1		<0.1		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-5D (bg)
2/27/2019	<0.1	0.13 (J)	0.052 (J)	0.53					
3/4/2019						<0.1		<0.1	0.19 (J)
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						<0.1		<0.1	0.047 (J)
6/12/2019									
8/19/2019									
8/20/2019									
8/21/2019									
9/24/2019	<0.1		0.063 (J)			<0.1			0.05 (J)
9/25/2019		0.1 (J)		0.46	<0.1		<0.1	<0.1	
9/26/2019									
10/8/2019									
10/9/2019									
10/10/2019						1.1			0.16 (J)
2/10/2020	<0.1		0.061 (J)						
2/11/2020		0.094 (J)							
2/12/2020				0.4	<0.1	<0.1	<0.1	<0.1	<0.1
2/13/2020									
3/17/2020									
3/18/2020	<0.1				<0.1				
3/19/2020		0.11 (J)	0.064 (J)	0.51			<0.1		
3/20/2020									
3/24/2020						<0.1			<0.1
3/25/2020								<0.1	
8/26/2020									
8/27/2020									
9/22/2020						<0.1		<0.1	0.056 (J)
9/23/2020	<0.1	0.098 (J)	0.058 (J)	0.47					
9/24/2020							<0.1		
9/25/2020					<0.1				
2/8/2021						<0.1			0.055 (J)
2/9/2021								<0.1	
2/10/2021		<0.1		0.43	<0.1				
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	0.1	0.078 (J)	0.44				<0.1	
3/4/2021									
8/19/2021	<0.1		0.074 (J)	0.47	<0.1		<0.1		
8/20/2021									
8/26/2021						<0.1		<0.1	0.061 (J)
8/27/2021		0.12							
9/1/2021									
9/3/2021									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-5D (bg)
2/8/2022									
2/9/2022	<0.1	0.097 (J)	0.057 (J)	0.43					
2/10/2022					<0.1	<0.1			0.055 (J)
2/11/2022							<0.1	<0.1	
8/30/2022			0.093 (J)			<0.1			0.085 (J)
8/31/2022	0.065 (J)	0.13		0.42	0.053 (J)		0.06 (J)	0.061 (J)	
9/1/2022									
2/7/2023	0.071 (J)		0.093 (J)						0.082 (J)
2/8/2023		0.16		0.56	0.059 (J)		0.064 (J)		
2/9/2023						<0.1		0.067 (J)	
8/2/2023									
8/15/2023	<0.1		0.057 (J)	0.42	<0.1	<0.1		<0.1	<0.1
8/16/2023		0.11					<0.1		
8/17/2023									
2/20/2024	<0.1	0.12	0.086 (J)	0.45		<0.1	0.051 (J)	0.059 (J)	0.076 (J)
2/21/2024									
2/22/2024									
2/23/2024					<0.1				
8/20/2024	<0.1	0.12	0.066 (J)	0.45	<0.1	<0.1	<0.1	<0.1	0.058 (J)
8/21/2024									
8/22/2024									
2/25/2025	0.06 (J)	0.14	0.094 (J)	0.45	0.052 (J)	<0.1	0.062 (J)	0.061 (J)	0.082 (J)
2/26/2025									
2/27/2025									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-26I	YGWC-26S	YGWC-27S	YGWC-27I
6/1/2016									
6/2/2016									
6/6/2016	<0.1	<0.1							
6/7/2016			<0.1	<0.1	<0.1				
6/8/2016						0.094 (J)	<0.1	0.12 (J)	0.086 (J)
6/9/2016									
7/25/2016									
7/26/2016									
7/27/2016	<0.1	<0.1	<0.1		<0.1				
7/28/2016				0.02 (J)					
8/1/2016						0.08 (J)	0.24 (J)	0.22 (J)	0.14 (J)
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016		<0.1	<0.1						
9/19/2016	<0.1			0.02 (J)	<0.1				
9/20/2016						0.05 (J)	0.03 (J)	0.32	<0.1
9/21/2016									
11/1/2016									
11/2/2016					<0.1				
11/3/2016	<0.1	<0.1	<0.1	0.07 (J)					
11/4/2016									
11/7/2016						0.12 (J)	0.44	0.2 (J)	0.12 (J)
11/8/2016									
11/14/2016									
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									
1/18/2017						0.11 (J)	0.07 (J)		0.08 (J)
1/19/2017								0.25 (J)	
2/21/2017						0.1 (J)	0.11 (J)		
2/22/2017								0.21 (J)	
2/23/2017									0.08 (J)
2/24/2017									
3/1/2017	0.03 (J)	0.03 (J)							
3/2/2017			0.04 (J)						
3/3/2017									
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									
5/1/2017									
5/2/2017			<0.1						

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-26I	YGWC-26S	YGWC-27S	YGWC-27I
5/3/2017							0.16 (J)		
5/5/2017									
5/8/2017						0.08 (J)		0.19 (J)	0.07 (J)
5/26/2017									
6/27/2017									
6/28/2017	<0.1	<0.1							
6/29/2017			0.02 (J)	0.05 (J)	0.03 (J)				
6/30/2017								0.2 (J)	0.03 (J)
7/5/2017									
7/7/2017									
7/10/2017						0.04 (J)	0.04 (J)		
7/11/2017									
7/17/2017									
10/3/2017				0.08 (J)					
10/4/2017		<0.1	<0.1		<0.1				
10/5/2017	<0.1								
10/6/2017								0.15 (J)	
10/9/2017									0.07 (J)
10/10/2017						<0.1	<0.1		
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									
3/28/2018	<0.1	<0.1	<0.1						
3/29/2018				<0.1	<0.1			0.49	<0.1
3/30/2018						<0.1	0.35		
4/2/2018									
4/3/2018									
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								0.037 (J)	
6/13/2018						0.088 (J)	0.044 (J)		<0.1
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018	<0.1	<0.1	<0.1	0.029 (J)	<0.1				
9/26/2018									
10/1/2018									
10/2/2018						<0.1	<0.1	<0.1	<0.1
10/3/2018									
2/25/2019									
2/26/2019									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-26I	YGWC-26S	YGWC-27S	YGWC-27I
2/27/2019						<0.1	<0.1	0.14 (J)	<0.1
3/4/2019									
3/5/2019		<0.1	<0.1	0.32	<0.1				
3/6/2019	<0.1								
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019								0.088 (J)	0.034 (J)
4/2/2019			<0.1	0.12 (J)		0.071 (J)	<0.1		
4/3/2019	<0.1	<0.1			<0.1				
6/12/2019									
8/19/2019									
8/20/2019									
8/21/2019									
9/24/2019				0.15 (J)					
9/25/2019			<0.1		<0.1	0.064 (J)	<0.1		
9/26/2019	<0.1	<0.1						0.22 (J)	0.14 (J)
10/8/2019									
10/9/2019									
10/10/2019			<0.1	0.11 (J)	0.099 (J)				
2/10/2020									
2/11/2020	<0.1	<0.1	<0.1						
2/12/2020				0.1 (J)	<0.1				
2/13/2020						<0.1	<0.1	0.11 (J)	<0.1
3/17/2020									
3/18/2020									
3/19/2020							<0.1		
3/20/2020						0.06 (J)		0.097 (J)	<0.1
3/24/2020	<0.1	<0.1	<0.1	0.081 (J)	<0.1				
3/25/2020									
8/26/2020									
8/27/2020									
9/22/2020									
9/23/2020	<0.1	<0.1	<0.1						
9/24/2020				0.079 (J)	<0.1	0.053 (J)	<0.1	0.092 (J)	0.059 (J)
9/25/2020									
2/8/2021									
2/9/2021	<0.1	<0.1	<0.1	0.092 (J)	<0.1				
2/10/2021						0.05 (J)	<0.1	0.084 (J)	0.055 (J)
2/11/2021									
2/12/2021									
3/1/2021									
3/2/2021							<0.1		
3/3/2021	<0.1	<0.1	<0.1		<0.1	0.05 (J)		<0.1	0.058 (J)
3/4/2021				0.091 (J)					
8/19/2021							<0.1		
8/20/2021						<0.1		0.11	0.091 (J)
8/26/2021		<0.1							
8/27/2021	<0.1		<0.1		<0.1				
9/1/2021				0.11					
9/3/2021									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-26I	YGWC-26S	YGWC-27S	YGWC-27I
2/8/2022								0.087 (J)	
2/9/2022	<0.1	<0.1	<0.1	0.1	<0.1				
2/10/2022						<0.1	<0.1		0.059 (J)
2/11/2022									
8/30/2022	<0.1	<0.1	<0.1	0.1					
8/31/2022					<0.1	0.082 (J)	0.076 (J)		
9/1/2022								0.12	0.1
2/7/2023	<0.1	<0.1	<0.1	0.1	<0.1				
2/8/2023									
2/9/2023						0.088 (J)	0.07 (J)	0.12	0.1
8/2/2023									
8/15/2023	<0.1	<0.1	<0.1	0.061 (J)	<0.1				
8/16/2023									
8/17/2023						0.073 (J)	0.06 (J)	0.098 (J)	0.081 (J)
2/20/2024	<0.1		<0.1	0.083 (J)	<0.1				
2/21/2024								0.11	0.082 (J)
2/22/2024						0.057 (J)	<0.1		
2/23/2024		<0.1							
8/20/2024	<0.1		<0.1	0.062 (J)	<0.1				
8/21/2024		0.051 (J)				0.098 (J)	<0.1		0.12
8/22/2024								0.075 (J)	
2/25/2025	<0.1	<0.1	<0.1	0.088 (J)	<0.1				
2/26/2025									0.059 (J)
2/27/2025						0.087 (J)	0.069 (J)	0.12	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-28S	YGWC-29IB	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/1/2016								
6/2/2016								
6/6/2016								
6/7/2016								
6/8/2016								
6/9/2016	0.16 (J)	0.085 (J)	0.098 (J)					
7/25/2016								
7/26/2016								
7/27/2016								
7/28/2016								
8/1/2016								
8/2/2016	0.5	0.09 (J)	0.38					
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								
9/19/2016								
9/20/2016								
9/21/2016	0.25 (J)	0.09 (J)	0.08 (J)					
11/1/2016								
11/2/2016								
11/3/2016								
11/4/2016						0.12 (J)		
11/7/2016	0.27 (J)	0.11 (J)						
11/8/2016			0.24 (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								
1/12/2017								
1/13/2017								
1/16/2017						0.1 (J)		
1/18/2017	0.34		0.12 (J)					
1/19/2017		0.06 (J)						
2/21/2017	0.27 (J)							
2/22/2017		0.09 (J)	0.15 (J)		0.09 (J)			
2/23/2017								
2/24/2017				0.05 (J)				
3/1/2017								
3/2/2017								
3/3/2017						0.11 (J)		
3/6/2017								
3/7/2017								
3/8/2017								
4/26/2017								
4/27/2017								
4/28/2017						0.06 (J)		
5/1/2017								
5/2/2017								

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell
Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-28S	YGWC-29IB	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
5/3/2017								
5/5/2017	0.2 (J)		0.08 (J)					
5/8/2017		0.06 (J)		0.03 (J)	0.05 (J)			
5/26/2017						0.09 (J)		
6/27/2017								
6/28/2017						0.11 (J)		
6/29/2017								
6/30/2017								
7/5/2017		0.08 (J)	0.11 (J)					
7/7/2017	0.18 (J)							
7/10/2017								
7/11/2017				0.07 (J)				
7/17/2017					0.14 (J)			
10/3/2017						0.12 (J)		
10/4/2017								
10/5/2017		0.09 (J)	0.08 (J)					
10/6/2017								
10/9/2017	0.25 (J)							
10/10/2017				<0.1				
10/11/2017							<0.1	
10/12/2017								<0.1
10/16/2017					0.12 (J)			
11/20/2017							<0.1	<0.1
1/10/2018								<0.1
1/11/2018							<0.1	
2/19/2018					<0.1			<0.1
2/20/2018							<0.1	
3/27/2018								
3/28/2018						0.31		
3/29/2018		<0.1						
3/30/2018	<0.1		<0.1					
4/2/2018				<0.1				
4/3/2018							<0.1	<0.1
6/5/2018								
6/6/2018								
6/7/2018						0.11 (J)		
6/8/2018								
6/11/2018		<0.1						
6/12/2018	0.13 (J)		<0.1					
6/13/2018								
6/28/2018							<0.1	<0.1
8/6/2018					0.087 (J)			
8/7/2018							0.048 (J)	<0.1
9/19/2018				<0.1				
9/24/2018							<0.1	<0.1
9/25/2018								
9/26/2018								
10/1/2018						<0.1		
10/2/2018		<0.1						
10/3/2018	0.31		<0.1					
2/25/2019					0.14 (J)			
2/26/2019								

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-28S	YGWC-29IB	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
2/27/2019	0.22 (J)	0.15 (J)	0.14 (J)			0.12 (J)		
3/4/2019								
3/5/2019								
3/6/2019								
3/26/2019								<0.1
3/27/2019				0.081 (J)			<0.1	
3/28/2019								
3/29/2019						0.13 (J)		
4/1/2019		0.059 (J)	0.078 (J)					
4/2/2019	0.14 (J)							
4/3/2019								
6/12/2019					0.12 (J)			
8/19/2019					<0.1			
8/20/2019				<0.1				
8/21/2019							<0.1	<0.1
9/24/2019						0.081 (J)		
9/25/2019		0.054 (J)						
9/26/2019	0.28 (J)		0.29 (J)					
10/8/2019				0.034 (J)	0.052 (J)			
10/9/2019							<0.1	<0.1
10/10/2019								
2/10/2020								
2/11/2020						0.075 (J)		
2/12/2020							<0.1	<0.1
2/13/2020	0.18 (J)	0.053 (J)	0.14 (J)					
3/17/2020				<0.1	0.053 (J)			
3/18/2020								
3/19/2020	0.16 (J)		0.07 (J)			0.093 (J)		
3/20/2020		0.057 (J)						
3/24/2020								<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						0.08 (J)		
9/24/2020	0.16	0.06 (J)	0.073 (J)				<0.1	<0.1
9/25/2020								
2/8/2021								
2/9/2021								
2/10/2021						0.094 (J)	<0.1	<0.1
2/11/2021			0.066 (J)					
2/12/2021	0.069 (J)	0.17						
3/1/2021				<0.1				
3/2/2021					0.073 (J)			
3/3/2021	0.13	0.056 (J)	0.072 (J)			0.085 (J)		
3/4/2021							<0.1	<0.1
8/19/2021				<0.1				
8/20/2021	0.2	0.069 (J)	0.11		0.06 (J)			
8/26/2021							0.063 (J)	
8/27/2021						0.12		
9/1/2021								
9/3/2021								<0.1

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-28S	YGWC-29IB	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
2/8/2022	0.14	0.053 (J)	0.063 (J)	<0.1	0.064 (J)		0.052 (J)	<0.1
2/9/2022						0.094 (J)		
2/10/2022								
2/11/2022								
8/30/2022					0.086 (J)	0.12		
8/31/2022				0.065 (J)			0.065 (J)	0.05 (J)
9/1/2022	0.16	0.091 (J)	0.11					
2/7/2023					0.095 (J)	0.12	0.076 (J)	
2/8/2023		0.092 (J)		0.077 (J)				<0.1
2/9/2023	0.18		0.14					
8/2/2023		0.054 (J)						
8/15/2023				<0.1	0.065 (J)	0.081 (J)	<0.1	<0.1
8/16/2023	0.18		0.078 (J)					
8/17/2023								
2/20/2024				0.073 (J)	0.094 (J)	0.1	0.063 (J)	<0.1
2/21/2024	0.15		0.096 (J)					
2/22/2024		0.075 (J)						
2/23/2024								
8/20/2024				<0.1		0.085 (J)		
8/21/2024							0.083 (J)	0.06 (J)
8/22/2024	0.14	0.071 (J)	0.08 (J)					
2/25/2025				0.069 (J)		0.12	0.078 (J)	0.053 (J)
2/26/2025	0.13	0.059 (J)	0.067 (J)					
2/27/2025								

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	GWA-2 (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-5I (bg)	YGWA-3D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-5D (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					5.75	7.84	5.46	6.36	7.67
6/6/2016									
6/7/2016									
6/8/2016									
6/9/2016									
7/25/2016		7.74		6.21					
7/26/2016			7.43		5.72	7.88	5.45	6.22	7.66
7/27/2016									
7/28/2016									
8/1/2016									
8/2/2016									
8/30/2016									
8/31/2016	6.32								
9/13/2016			7.44	6.16					
9/14/2016		7.65			5.74			6.23	7.6
9/15/2016						7.74	5.45		
9/16/2016									
9/19/2016									
9/20/2016									
9/21/2016									
11/1/2016		7.7	7.24			7.75			
11/2/2016							5.41	6.08	7.35
11/3/2016									
11/4/2016				6.29	5.61				
11/7/2016									
11/8/2016									
11/14/2016									
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					5.71				7.49
1/13/2017								6.19	
1/16/2017				6.29					
1/18/2017									
1/19/2017									
2/21/2017									
2/22/2017	6.21								

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	GWA-2 (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-5I (bg)	YGWA-3D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-5D (bg)
2/23/2017									
2/24/2017									
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					5.66				7.43
3/8/2017							5.41		
4/26/2017		7.4				7.45	5.02		
4/27/2017			6.99	6.09					
4/28/2017									
5/1/2017								6.21	7.22
5/2/2017					5.65				
5/3/2017									
5/5/2017									
5/8/2017	6.12								
5/26/2017									
6/27/2017			6.87	6.21	5.7				7.32
6/28/2017		7.5				7.65			
6/29/2017								6.21	
6/30/2017							5.39		
7/5/2017									
7/7/2017									
7/10/2017									
7/11/2017									
7/17/2017	6.03								
10/3/2017			6.81	5.98	5.79				7.48
10/4/2017		7.45				7.49			
10/5/2017							5.49	6.16	
10/6/2017									
10/9/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017	6.12								
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018	6.13								
2/20/2018									
3/27/2018				6.25			5.47		
3/28/2018		7.74				7.91			
3/29/2018			7.38		5.63			6.09	7.02
3/30/2018									
4/2/2018									
4/3/2018									
6/5/2018			7.16						
6/6/2018				6.17					7.43
6/7/2018					5.63	7.69		6.12	
6/8/2018		7.64					5.45		
6/11/2018									
6/12/2018									

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	GWA-2 (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-5I (bg)	YGWA-3D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/13/2018									
6/28/2018									
8/6/2018	6.01								
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					5.63			5.84	7.13
10/1/2018		7.47	6.8	5.9		7.39	5.39		
10/2/2018									
10/3/2018									
2/25/2019	6.51								
2/26/2019							5.46		
2/27/2019		7.54	6.84	5.8		7.55			
3/4/2019					5.75			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				7.87			
4/2/2019									
4/3/2019					5.63			6.43	7.11
6/12/2019	6.3								
8/19/2019	6.23								
8/20/2019									
8/21/2019									
9/24/2019			7.07	6.23	5.6				6.93
9/25/2019		7.47				7.64	5.19	6.2	
9/26/2019									
10/8/2019	6.28								
10/9/2019									
2/10/2020			7.2	6.1					
2/11/2020		7.09							
2/12/2020					5.83	7.83	5.48	6.15	7.52
2/13/2020									
3/17/2020	6.14								
3/18/2020				6.19			5.38		
3/19/2020		7.31	7.03			7.65			
3/20/2020									
3/24/2020					5.81				7.34
3/25/2020								6.26	
5/6/2020	6.24								
8/26/2020	5.67								
8/27/2020									
9/22/2020	5.78				5.99			5.8	7.19
9/23/2020		7.37	7.15	6.01		7.57			
9/24/2020									
9/25/2020							5.44		
2/8/2021					5.67				7.66
2/9/2021								6.06	

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	GWA-2 (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-5I (bg)	YGWA-3D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-5D (bg)
2/10/2021		7.58				7.81	5.35		
2/11/2021									
2/12/2021			7.14	6.21					
3/1/2021									
3/2/2021	5.42				5.63		5.49		7.15
3/3/2021		8.13	7.2	5.38		8.39		6.21	
3/4/2021									
8/19/2021			6.32	6.38		5.34	7.32		
8/20/2021	5.86								
8/26/2021					5.51			5.82	7.16
8/27/2021		7.39							
9/1/2021									
9/3/2021									
2/8/2022	5.83								
2/9/2022		7.66	7.12	6.24		7.97			
2/10/2022					5.14		4.5		6.99
2/11/2022								5.95	
8/30/2022	5.39		7.2		5				7.4
8/31/2022		7.49		5.64		7.65	5.15	5.5	
9/1/2022									
2/7/2023	5.94		7.86	6.53					6.64
2/8/2023		7.73				7.88	5.39		
2/9/2023					5.9			6.23	
8/2/2023									
8/15/2023	5.3		6.98	5.88	5.58	7.69	5.03	5.99	7.34
8/16/2023		7.39							
8/17/2023									
2/20/2024	6.07	7.59	7.06	6.42	5.78	7.81		6.21	7.56
2/21/2024									
2/22/2024									
2/23/2024							5.39		
8/20/2024		7.45	7.18	5.77	5.58	7.59	5.49	6.03	7.3
8/21/2024									
8/22/2024									
2/25/2025		7.55	7.18	6.02	5.77	7.79	5.16	5.98	7.4
2/26/2025									
2/27/2025									

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-30I (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-26S	YGWC-27I	YGWC-26I
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	5.62	6.1			
6/8/2016							5.24	6.32	5.85
6/9/2016									
7/25/2016	5.82								
7/26/2016									
7/27/2016		5.46	6.14	5.79	5.59				
7/28/2016						6.12			
8/1/2016							5.17	6.34	5.83
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016					5.58				
9/19/2016	5.78	5.59	6.04	5.73		6.12			
9/20/2016							5.35	6.36	5.89
9/21/2016									
11/1/2016	5.62								
11/2/2016				5.67					
11/3/2016		5.39	5.97		5.59	6.07			
11/4/2016									
11/7/2016							5.35	6.3	5.91
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017		5.48	6.05		5.59				
1/12/2017									
1/13/2017				5.79		6.41			
1/16/2017	5.72								
1/18/2017							5.2	6.31	5.84
1/19/2017									
2/21/2017	5.67						5.14		5.79
2/22/2017									

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-30I (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-26S	YGWC-27I	YGWC-26I
2/23/2017								6.18	
2/24/2017									
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									
3/8/2017									
4/26/2017	5.56	5.4	5.99	5.66		6.32			
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017					5.47				
5/3/2017							5.28		
5/5/2017									
5/8/2017								6.24	5.84
5/26/2017									
6/27/2017									
6/28/2017		5.36	6						
6/29/2017				5.85	5.56	6.47			
6/30/2017	5.72							6.21	
7/5/2017									
7/7/2017									
7/10/2017							5.25		5.92
7/11/2017									
7/17/2017									
10/3/2017						6.56			
10/4/2017	5.87	5.32		5.83	5.57				
10/5/2017			6.11						
10/6/2017									
10/9/2017								6.26	
10/10/2017							5.17		5.84
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	5.83								
3/28/2018		5.34	6.1		5.59				
3/29/2018				5.93		6.75		6.36	
3/30/2018							5.19		6.19
4/2/2018									
4/3/2018									
6/5/2018						6.09			
6/6/2018				5.86					
6/7/2018			5.98						
6/8/2018									
6/11/2018	5.69	5.28			5.58				
6/12/2018									

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-30I (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-26S	YGWC-27I	YGWC-26I
6/13/2018							5.12	6.28	5.82
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018		4.86	5.81	5.84	5.59	6.67			
9/26/2018									
10/1/2018									
10/2/2018	5.39						4.95	5.9	5.81
10/3/2018									
2/25/2019									
2/26/2019	5.77								
2/27/2019							5	6.31	5.79
3/4/2019									
3/5/2019		5.26		6.07	5.48	7.22			
3/6/2019			5.99						
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019	5.62							6.43	
4/2/2019					5.74	6.94	5.13		5.87
4/3/2019		5.47	6.29	5.71					
6/12/2019									
8/19/2019									
8/20/2019									
8/21/2019									
9/24/2019						6.87			
9/25/2019	5.69			5.86	5.49		5.24		5.79
9/26/2019		5.2	6.04					6.3	
10/8/2019									
10/9/2019									
2/10/2020									
2/11/2020		5.3	6.07		5.58				
2/12/2020	5.8			6		7.13			
2/13/2020							5.29	6.4	5.93
3/17/2020									
3/18/2020									
3/19/2020	6						5.46		
3/20/2020								6.32	5.94
3/24/2020		5.33	5.98	5.86	5.57	6.35			
3/25/2020									
5/6/2020									
8/26/2020									
8/27/2020									
9/22/2020									
9/23/2020		5.29	6.01		5.58				
9/24/2020	5.67			5.8		6.7	5.46	6.36	5.86
9/25/2020									
2/8/2021									
2/9/2021		5.43	6.12	5.86	5.62	6.95			

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-30I (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-26S	YGWC-27I	YGWC-26I
2/10/2021							5.18	6.29	5.96
2/11/2021	5.73								
2/12/2021									
3/1/2021	5.78								
3/2/2021							5.38		
3/3/2021		5.31	5.89	5.89	5.52			6.43	5.93
3/4/2021						6.8			
8/19/2021	5.43						5.12		
8/20/2021								6.17	5.78
8/26/2021		4.4							
8/27/2021			5.4	5.57	5.27				
9/1/2021						6.65			
9/3/2021									
2/8/2022									
2/9/2022		5.28	5.98	5.91	5.53	6.84			
2/10/2022							5.31	6.23	5.84
2/11/2022	5.59								
8/30/2022		5.18	5.89		4.68	6.58			
8/31/2022	5.87			5.38			5.61		5.77
9/1/2022								6.13	
2/7/2023		5.03	6	5.63	5.47	6.82			
2/8/2023	6.43								
2/9/2023							5.64	6.48	5.76
8/2/2023									
8/15/2023		5.2	5.82	7	5.54	6.84			
8/16/2023	5.55								
8/17/2023							5.38	6.2	5.77
2/20/2024	5.81		6.11	5.99	5.64	6.78			
2/21/2024								6.43	
2/22/2024							5.58		5.92
2/23/2024		5.3							
8/20/2024	6.07		5.74	6	5.45	6.6			
8/21/2024		5.29					6.17	7.28	6.31
8/22/2024									
2/25/2025	5.45	6.26	6	6.07	5.59	6.55			
2/26/2025								6.63	
2/27/2025							5.54		5.85

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-27S	YGWC-29IB	YGWC-28I	YGWC-28S	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (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								
6/6/2016								
6/7/2016								
6/8/2016	6.24							
6/9/2016		6.19	6.42	6.39				
7/25/2016								
7/26/2016								
7/27/2016								
7/28/2016								
8/1/2016	6.12							
8/2/2016		6.17	6.43	6.35				
8/30/2016					5.75			
8/31/2016								
9/13/2016						7.41		
9/14/2016								
9/15/2016								
9/16/2016								
9/19/2016								
9/20/2016	6.3							
9/21/2016		6.2	6.45	6.39				
11/1/2016								
11/2/2016								
11/3/2016								
11/4/2016						7.12		
11/7/2016	6.25	6.1		6.36				
11/8/2016			6.37					
11/14/2016					5.59			
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		
1/18/2017			6.27	6.23				
1/19/2017	6.2	6.22						
2/21/2017				6.42				
2/22/2017	6.14	6.12	6.35					

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell
Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-27S	YGWC-29IB	YGWC-28I	YGWC-28S	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
2/23/2017								
2/24/2017					5.49			
3/1/2017								
3/2/2017								
3/3/2017						7.22		
3/6/2017								
3/7/2017								
3/8/2017								
4/26/2017								
4/27/2017								
4/28/2017						7.21		
5/1/2017								
5/2/2017								
5/3/2017								
5/5/2017			6.36	6.4				
5/8/2017	6.11	6.11			5.58			
5/26/2017						7.13		
6/27/2017								
6/28/2017						7.06		
6/29/2017								
6/30/2017	6.17							
7/5/2017		6.17	6.4					
7/7/2017				6.46				
7/10/2017								
7/11/2017					5.58			
7/17/2017								
10/3/2017						6.99		
10/4/2017								
10/5/2017		6.17	6.43					
10/6/2017	6.13							
10/9/2017				6.37				
10/10/2017					5.49			
10/11/2017							6.4	
10/12/2017								5.43
10/16/2017								
11/20/2017							6.33	5.1
1/10/2018								4.97
1/11/2018							6.29	
2/19/2018								5.6
2/20/2018							7.22	
3/27/2018								
3/28/2018						7.3		
3/29/2018	6.25	6.09						
3/30/2018			6.39	6.35				
4/2/2018					6.3			
4/3/2018							6.87	5.84
6/5/2018								
6/6/2018								
6/7/2018						7.29		
6/8/2018								
6/11/2018		6.17						
6/12/2018	6.22		6.42	6.47				

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-27S	YGWC-29IB	YGWC-28I	YGWC-28S	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/13/2018								
6/28/2018							6.18	5.24
8/6/2018								
8/7/2018							6.08	5.18
9/19/2018					5.48			
9/24/2018							5.81	5.14
9/25/2018								
9/26/2018								
10/1/2018						7.07		
10/2/2018	5.99	6.17						
10/3/2018			6.21	6.01				
2/25/2019								
2/26/2019								
2/27/2019	6.26	6.19	6.32	6.38		7.27		
3/4/2019								
3/5/2019								
3/6/2019								
3/26/2019								5.3
3/27/2019					5.83		5.84	
3/28/2019								
3/29/2019						7.06		
4/1/2019	6.4	6.03	6.3					
4/2/2019				6.7				
4/3/2019								
6/12/2019								
8/19/2019								
8/20/2019					5.58			
8/21/2019							5.96	5.26
9/24/2019						7.01		
9/25/2019		6.21						
9/26/2019	6.22		6.43	6.47				
10/8/2019					5.59			
10/9/2019							5.81	5.22
2/10/2020								
2/11/2020						7.38		
2/12/2020							5.97	5.3
2/13/2020	6.31	6.32	6.49	6.53				
3/17/2020					5.57			
3/18/2020								
3/19/2020			7.01	6.98		7.22		
3/20/2020	6.18	6.17						
3/24/2020								5.29
3/25/2020							5.78	
5/6/2020								
8/26/2020								
8/27/2020					4.88			
9/22/2020					5.46			
9/23/2020						7.22		
9/24/2020	6.27	6.2	6.41	6.53			5.7	5.43
9/25/2020								
2/8/2021								
2/9/2021								

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell
Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-27S	YGWC-29IB	YGWC-28I	YGWC-28S	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
2/10/2021	6.21					7.29	5.8	5.19
2/11/2021			6.57					
2/12/2021		6.24		6.6				
3/1/2021					5.48			
3/2/2021								
3/3/2021	6.35	6.27	6.51	6.61		7.92		
3/4/2021							5.54	5.23
8/19/2021					5.5			
8/20/2021	6.18	6.07	6.23	6.38				
8/26/2021							6.91	
8/27/2021						7.16		
9/1/2021								
9/3/2021								5.01
2/8/2022	6.22	5.88	6.36	6.3	5.4		5.78	5.26
2/9/2022						5.86		
2/10/2022								
2/11/2022								
8/30/2022						7.04		
8/31/2022					5.32		5.3	4.53
9/1/2022	6.13	6.05	6.41	6.59				
2/7/2023						6.94	5.49	
2/8/2023		6.67			5.22			5.71
2/9/2023	6.64		6.7	6.87				
8/2/2023		6.04						
8/15/2023					5.69	6.96	5.78	5
8/16/2023			6.3	6.36				
8/17/2023	6.06							
2/20/2024					5.62	7.23	5.97	5.32
2/21/2024	6.26		6.43	6.49				
2/22/2024		6.01						
2/23/2024								
8/20/2024					5.48	6.91		
8/21/2024							6	5.38
8/22/2024	6.27	5.86	6.19	6.23				
2/25/2025					5.52	7.14	5.81	5.07
2/26/2025		5.94	6.67	6.45				
2/27/2025	6.23							

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-3D (bg)
6/1/2016	5	12	4.2						
6/2/2016				1.9	20	1.3	6.6	8	5.8
6/6/2016									
6/7/2016									
6/8/2016									
6/9/2016									
7/25/2016		8.4	3.7			1.2			
7/26/2016	5.4			1.8	20		6.1	7.7	6.7
7/27/2016									
7/28/2016									
8/1/2016									
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016	2.9		5.2						
9/14/2016		8.6		1.8	19			7.5	
9/15/2016							6.1		6
9/16/2016									
9/19/2016						1.2			
9/20/2016									
9/21/2016									
11/1/2016	3.9	8.9				1.3			4.9
11/2/2016					20		6.3	8.2	
11/3/2016									
11/4/2016			5	2					
11/7/2016									
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017							5.9		
1/11/2017	3.7	8.6							4.5
1/12/2017				1.9	19				
1/13/2017								8.1	
1/16/2017			7.9			1.4			
1/18/2017									
1/19/2017									
2/21/2017						1.4			
2/22/2017									
2/23/2017									
2/24/2017									
3/1/2017		9.3							
3/2/2017	4.6		7.4						4.4
3/3/2017									
3/6/2017								8	
3/7/2017				2.1	20				
3/8/2017							7		
4/26/2017		11				1.4	7		5.1
4/27/2017	5.2		7.4						
4/28/2017									
5/1/2017					20			8.4	
5/2/2017				2					

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-3D (bg)
5/3/2017									
5/5/2017									
5/8/2017									
5/26/2017									
6/27/2017	5.9		6.4	2.1	18				
6/28/2017		12							5.4
6/29/2017								9.2	
6/30/2017						1.5	6.5		
7/5/2017									
7/7/2017									
7/10/2017									
7/11/2017									
7/17/2017									
10/3/2017	6.6		5.9	2.3	16				
10/4/2017		12				1.4			6.2
10/5/2017							7.9	9.6	
10/6/2017									
10/9/2017									
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									
4/2/2018									
4/3/2018									
6/5/2018	6.4								
6/6/2018			4.4		8.3				
6/7/2018				2				8.5	6.7
6/8/2018		9.6					6.4		
6/11/2018						1.1			
6/12/2018									
6/13/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018				2.3	7.9			10.2	
10/1/2018	5.6	9.1	4				6.8		7.1
10/2/2018						1			
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019	8		4.3						
3/29/2019							7.3		
4/1/2019		8.5				0.96 (J)			7.2

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-3D (bg)
4/2/2019									
4/3/2019				2.1	7			8.5	
6/12/2019									
9/24/2019	5.3		4.3	2.4	5.5				
9/25/2019		13.8				0.81 (J)	6.6	8.5	7
9/26/2019									
10/8/2019									
10/9/2019									
10/10/2019				1.8	<1			9.2	
3/17/2020									
3/18/2020			5.3				8.1		
3/19/2020	10	12.9				1.6			9
3/20/2020									
3/24/2020				2.1	5.9				
3/25/2020								8.8	
9/22/2020				2.1	5.5			8.2	
9/23/2020	8.1	16.8	3.4						6.9
9/24/2020						0.69 (J)			
9/25/2020							6.1		
3/1/2021						0.88 (J)			
3/2/2021				2.3	2.6		6		
3/3/2021	9	9.6	4.4					7.8	7
3/4/2021									
8/19/2021	8.9		4.9			1	6.7		7.5
8/20/2021									
8/26/2021				2.4	6			8.5	
8/27/2021		18.2							
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	9.3	16	5.1						7.2
2/10/2022				2.4	4.9		6.2		
2/11/2022						2.8		7.7	
8/30/2022	10.2			2.4	5.7				
8/31/2022		13.9	4.8			1.1	5.8	8	6.9
9/1/2022									
2/7/2023	10.6		6.6		5.2				
2/8/2023		14.7				0.96 (J)	6.1		7.5
2/9/2023				2.9				8.9	
8/2/2023									
8/15/2023	9.6		4.6	2.2	4.8		6	7.5	6.8
8/16/2023		20.3				0.9 (J)			
8/17/2023									
2/20/2024	9.7	13.8	4.3	2.5	5.1	0.69 (J)		8.5	7
2/21/2024									
2/22/2024									
2/23/2024							7.1		
8/20/2024	12.2	13.7	4.9	2.6	4.3	0.74 (J)	7.6	8.7	7.7
8/21/2024									
8/22/2024									
2/25/2025	10.4	10.9	3.5	2.2	4.6	0.74 (J)	6.5	7.4	6.7
2/26/2025									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-3D (bg)
2/27/2025									

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-27S	YGWC-27I	YGWC-26S	YGWC-26I
6/1/2016									
6/2/2016									
6/6/2016	1.2	1.8							
6/7/2016			4.4	<1	5.2				
6/8/2016						26	3.2	110	81
6/9/2016									
7/25/2016									
7/26/2016									
7/27/2016	1.7	1.9	4.7	0.08 (J)					
7/28/2016					5.1				
8/1/2016						27	3.6	96	75
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016		1.7	4.8						
9/19/2016	1.8			0.08 (J)	4.8				
9/20/2016						21	5.6	100	78
9/21/2016									
11/1/2016									
11/2/2016				0.1 (J)					
11/3/2016	0.69 (J)	1.9	5.3		5				
11/4/2016									
11/7/2016						24	5.4	100	81
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	0.99 (J)	1.7	5.2						
1/12/2017									
1/13/2017				0.1 (J)	4.3				
1/16/2017									
1/18/2017							3.5	100	95
1/19/2017						25			
2/21/2017								96	80
2/22/2017						24			
2/23/2017							4.9		
2/24/2017									
3/1/2017	1.8	1.6							
3/2/2017			5						
3/3/2017									
3/6/2017				<1	4.5				
3/7/2017									
3/8/2017									
4/26/2017	1.6	1.9		<1	4.9				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017			5						

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-27S	YGWC-27I	YGWC-26S	YGWC-26I
5/3/2017								100	
5/5/2017									
5/8/2017						23	3.9		84
5/26/2017									
6/27/2017									
6/28/2017	1.7	1.5							
6/29/2017			5.2	0.15 (J)	5.5				
6/30/2017						23	5		
7/5/2017									
7/7/2017									
7/10/2017								100	84
7/11/2017									
7/17/2017									
10/3/2017					5.8				
10/4/2017		1.7	5.3	0.14 (J)					
10/5/2017	1.6								
10/6/2017						23			
10/9/2017							5.1		
10/10/2017								97	82
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
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						18.1			
6/13/2018							6.1	93.3	76.5
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018	1	1.5	6.1	0.13 (J)	7				
9/26/2018									
10/1/2018									
10/2/2018						20.2	6.1	99	83.9
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019						18.3	4.1		

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-27S	YGWC-27I	YGWC-26S	YGWC-26I
4/2/2019			5.1		3.8			94.5	77.6
4/3/2019	0.82 (J)	1.3		0.12 (J)					
6/12/2019									
9/24/2019					1				
9/25/2019			5.5	<1				97	80.1
9/26/2019	0.64 (J)	1				18.2	4.2		
10/8/2019									
10/9/2019									
10/10/2019			5.5	0.058 (J)	3.6				
3/17/2020									
3/18/2020									
3/19/2020								99.4	
3/20/2020						21.1	5.2		84.7
3/24/2020	<1	0.99 (J)	5.4	<1	3				
3/25/2020									
9/22/2020									
9/23/2020	0.53 (J)	1.1	5.1						
9/24/2020				<1	3.6	16.6	3	92.3	85.6
9/25/2020									
3/1/2021									
3/2/2021								92.7	
3/3/2021	<1	1	5.2	<1		451 (o)	2.6		89.3
3/4/2021					4.5				
8/19/2021								86.5	
8/20/2021						18	2.9		84
8/26/2021		1.2							
8/27/2021	0.59 (J)		5.3	<1					
9/1/2021					5				
9/3/2021									
2/8/2022						16.3			
2/9/2022	0.51 (J)	1.1	4.8	<1	3.9				
2/10/2022							2.4	86.5	81.8
2/11/2022									
8/30/2022	0.78 (J)	1.3	4.7		3.2				
8/31/2022				<1				90.2	85.9
9/1/2022						13.5	2.5		
2/7/2023	0.78 (J)	1.2	4.9	<1	3.8				
2/8/2023									
2/9/2023						13.7	3.2	89.7	84.2
8/2/2023									
8/15/2023	0.51 (J)	0.88 (J)	4.6	<1	4.1				
8/16/2023									
8/17/2023						14.2	3.3	85.7	81.1
2/20/2024	<1		4.6	<1	3.8				
2/21/2024						13	3.8		
2/22/2024								89.3	80.7
2/23/2024		0.79 (J)							
8/20/2024	0.74 (J)		4.6	<1	4				
8/21/2024		1.1					4.2	90.9	83.5
8/22/2024						15.7			
2/25/2025	<1	0.59 (J)	3.6	<1	3.3				
2/26/2025							4		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell
Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-27S	YGWC-27I	YGWC-26S	YGWC-26I
2/27/2025						12.4		83.3	77.5

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-28I	YGWC-29IB	YGWC-28S	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/1/2016								
6/2/2016								
6/6/2016								
6/7/2016								
6/8/2016								
6/9/2016	8.7	33	5.2					
7/25/2016								
7/26/2016								
7/27/2016								
7/28/2016								
8/1/2016								
8/2/2016	7.5	32	4.5					
8/30/2016				160				
8/31/2016					29			
9/13/2016								
9/14/2016						9.4		
9/15/2016								
9/16/2016								
9/19/2016								
9/20/2016								
9/21/2016	8	32	4.1					
11/1/2016								
11/2/2016								
11/3/2016								
11/4/2016						13		
11/7/2016		33	4.3					
11/8/2016	8.3							
11/14/2016				150				
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		
1/18/2017	8		2.7					
1/19/2017		32						
2/21/2017			3					
2/22/2017	8.2	31			43			
2/23/2017								
2/24/2017				120				
3/1/2017								
3/2/2017								
3/3/2017						8.8		
3/6/2017								
3/7/2017								
3/8/2017								
4/26/2017								
4/27/2017								
4/28/2017						10		
5/1/2017								
5/2/2017								

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell
Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-28I	YGWC-29IB	YGWC-28S	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
5/3/2017								
5/5/2017	8.4		4.7					
5/8/2017		32		120	60			
5/26/2017						12		
6/27/2017								
6/28/2017						11		
6/29/2017								
6/30/2017								
7/5/2017	8.1	31						
7/7/2017			2.7					
7/10/2017								
7/11/2017				110				
7/17/2017					63			
10/3/2017						7.9		
10/4/2017								
10/5/2017	8.6	31						
10/6/2017								
10/9/2017			2.9					
10/10/2017				93				
10/11/2017							20	
10/12/2017								17
10/16/2017					62			
11/20/2017							24	71
1/10/2018								66
1/11/2018							23	
2/19/2018					64.6			57.2
2/20/2018							20.6	
4/2/2018				88.8				
4/3/2018							24.5	49.4
6/5/2018								
6/6/2018								
6/7/2018						8.8		
6/8/2018								
6/11/2018		30.6						
6/12/2018	8.2		2.9					
6/13/2018								
6/28/2018							22	43.8
8/6/2018					42.1			
8/7/2018							20.7	40.5
9/19/2018				75				
9/24/2018							21.2	39.7
9/25/2018								
9/26/2018								
10/1/2018						9.1		
10/2/2018		30.8						
10/3/2018	8		2.1					
2/25/2019					42.1			
3/26/2019								34.3
3/27/2019				65.9			17.7	
3/28/2019								
3/29/2019						9		
4/1/2019	8.2	30.4						

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-28I	YGWC-29IB	YGWC-28S	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
4/2/2019			2.4					
4/3/2019								
6/12/2019					83.4			
9/24/2019						9.1		
9/25/2019		30						
9/26/2019	7.9		1.6					
10/8/2019				52.3	128			
10/9/2019							14.85 (D)	27.75 (D)
10/10/2019								
3/17/2020				71.6	98.6			
3/18/2020								
3/19/2020	9.1		1.7			12.4		
3/20/2020		33						
3/24/2020								25.2
3/25/2020							14.3	
9/22/2020				51.5	145			
9/23/2020						11.8		
9/24/2020	7.2	26.2	0.99 (J)				11.7	22.9
9/25/2020								
3/1/2021				51.6				
3/2/2021					156			
3/3/2021	8.6	26.6	4.9			10.6		
3/4/2021							12	21.5
8/19/2021				52.6				
8/20/2021	8.9	24.7	5.4		121			
8/26/2021							19.2	
8/27/2021						16.7		
9/1/2021								
9/3/2021								21.3
2/8/2022	8.1	22.9	10.5	50.9	107		14.6	17.9
2/9/2022						18		
2/10/2022								
2/11/2022								
8/30/2022					101	20.1		
8/31/2022				48			10.9	17.9
9/1/2022	7.6	21.2	13.4					
2/7/2023					82.4	17.8	9.7	
2/8/2023		23.7		50.5				17.5
2/9/2023	7.4		16					
8/2/2023		22.9						
8/15/2023				47.7	74.2	17.2	7.6	16.4
8/16/2023	7.8		16.2					
8/17/2023								
2/20/2024				51	75	23.1	8.6	17.2
2/21/2024	8.5		3.9					
2/22/2024		26.9						
2/23/2024								
8/20/2024				53.9		21.3		
8/21/2024							6.6	18.2
8/22/2024	9	39.7	5.5					
2/25/2025				48.3		13.8	6.5	15.4
2/26/2025	8.8	40.9	2					

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-28I	YGWC-29IB	YGWC-28S	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
2/27/2025								

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-5I (bg)	YGWA-14S (bg)
6/1/2016	54	120	150						
6/2/2016				130	36	160	96	66	46
6/6/2016									
6/7/2016									
6/8/2016									
6/9/2016									
7/25/2016	48		135		50				
7/26/2016		94		141		177	92	78	54
7/27/2016									
7/28/2016									
8/1/2016									
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016	67	105							
9/14/2016			127			187	102	73	
9/15/2016				153					54
9/16/2016									
9/19/2016					35				
9/20/2016									
9/21/2016									
11/1/2016		44	75	92	<25				
11/2/2016						181	115		71
11/3/2016									
11/4/2016	60							75	
11/7/2016									
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017									45
1/11/2017		107	148	159					
1/12/2017						202		86	
1/13/2017							67		
1/16/2017	65				47				
1/18/2017									
1/19/2017									
2/21/2017					<25				
2/22/2017									
2/23/2017									
2/24/2017									
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
4/26/2017			92	181	55				52
4/27/2017	31	116							
4/28/2017									
5/1/2017						165	107		
5/2/2017								103	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-5I (bg)	YGWA-14S (bg)
5/3/2017									
5/5/2017									
5/8/2017									
5/26/2017									
6/27/2017	42	89				189		73	
6/28/2017			126	169					
6/29/2017							79		
6/30/2017					42				45
7/5/2017									
7/7/2017									
7/10/2017									
7/11/2017									
7/17/2017									
10/3/2017	58	119				170		89	
10/4/2017			147	141	31				
10/5/2017							95		40
10/6/2017									
10/9/2017									
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									
4/2/2018									
4/3/2018									
6/5/2018		127							
6/6/2018	96					151			
6/7/2018				95			90	142	
6/8/2018			158						114
6/11/2018					59				
6/12/2018									
6/13/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018						144	116	86	
10/1/2018	60	117	138	165					50
10/2/2018					57				
10/3/2018									
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				

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-5I (bg)	YGWA-14S (bg)
4/2/2019									
4/3/2019						142	111	83	
6/12/2019									
9/24/2019	54	124				129		79	
9/25/2019			159	157	51		117		64
9/26/2019									
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020	35								57
3/19/2020		116	148	146	47				
3/20/2020									
3/24/2020						139		68	
3/25/2020							146		
9/22/2020						104	83	75	
9/23/2020	15	108	155	157					
9/24/2020					51				
9/25/2020									54
3/1/2021					23				
3/2/2021						52		67	67
3/3/2021	39	99	111	137			80		
3/4/2021									
8/19/2021	44	105		144	50				54
8/20/2021									
8/26/2021						123	93	86	
8/27/2021			155						
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	57	105	145	154					
2/10/2022						127		77	56
2/11/2022					66		102		
8/30/2022		116				148		86	
8/31/2022	46		137	141	33		92		51
9/1/2022									
2/7/2023	121	131				180			
2/8/2023			145	144	43				56
2/9/2023							124	59	
8/2/2023									
8/15/2023	65	121		231		219	99	76	69
8/16/2023			148		48				
8/17/2023									
2/20/2024	59	130	220	294	55	639 (O)	140	137	
2/21/2024									
2/22/2024									
2/23/2024									64
8/20/2024	67	140	179	164	69	212	128	108	81
8/21/2024									
8/22/2024									
2/25/2025	47	121	136	147	51	146	105	83	64
2/26/2025									
2/27/2025									

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWC-26S	YGWC-27S	YGWC-27I	YGWC-26I
6/1/2016									
6/2/2016									
6/6/2016	120	58							
6/7/2016			60	28	38				
6/8/2016						200	210	190	220
6/9/2016									
7/25/2016									
7/26/2016									
7/27/2016	94	35		74	74				
7/28/2016			81						
8/1/2016						191	209	191	211
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016		35		67					
9/19/2016	92		68		45				
9/20/2016						213	224	205	217
9/21/2016									
11/1/2016									
11/2/2016					53				
11/3/2016	104	48	61	41					
11/4/2016									
11/7/2016						284	291	264	301
11/8/2016									
11/14/2016									
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									
1/18/2017						158		167	265
1/19/2017							215		
2/21/2017						137			158
2/22/2017							262		
2/23/2017								253	
2/24/2017									
3/1/2017	119	79							
3/2/2017				77					
3/3/2017									
3/6/2017			167		164				
3/7/2017									
3/8/2017									
4/26/2017	162	36	50		34				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017				142					

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWC-26S	YGWC-27S	YGWC-27I	YGWC-26I
5/3/2017						269			
5/5/2017									
5/8/2017							187	174	207
5/26/2017									
6/27/2017									
6/28/2017	98	45							
6/29/2017			94	53	68				
6/30/2017							209	193	
7/5/2017									
7/7/2017									
7/10/2017						183			219
7/11/2017									
7/17/2017									
10/3/2017			149						
10/4/2017		45		61	54				
10/5/2017	104								
10/6/2017							183		
10/9/2017								185	
10/10/2017						179			194
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
6/5/2018			109						
6/6/2018					79				
6/7/2018	68								
6/8/2018									
6/11/2018		74		70					
6/12/2018							208		
6/13/2018						196		219	228
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018	109	63	122	86	73				
9/26/2018									
10/1/2018									
10/2/2018						191	206	227	227
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019							221	198	

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWC-26S	YGWC-27S	YGWC-27I	YGWC-26I
4/2/2019			134	72		224			223
4/3/2019	89	63			57				
6/12/2019									
9/24/2019			157						
9/25/2019				81	75	190			225
9/26/2019	126	72					225	198	
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020									
3/19/2020						194			
3/20/2020							182	195	211
3/24/2020	91	59	117	71	76				
3/25/2020									
9/22/2020									
9/23/2020	103	81		99					
9/24/2020			113		69	171	185	186	212
9/25/2020									
3/1/2021									
3/2/2021						154			
3/3/2021	95	37		57	53		178	173	205
3/4/2021			110						
8/19/2021						176			
8/20/2021							169	196	224
8/26/2021		31							
8/27/2021	112			93	67				
9/1/2021			137						
9/3/2021									
2/8/2022							159		
2/9/2022	103	60	131	81	72				
2/10/2022						168		190	207
2/11/2022									
8/30/2022	100	52	122	81					
8/31/2022					62	206			228
9/1/2022							124	193	
2/7/2023	96	55	163	78	89				
2/8/2023									
2/9/2023						196	116	189	366
8/2/2023									
8/15/2023	96	81	126	74	62				
8/16/2023									
8/17/2023						207	137	186	248
2/20/2024	129		156	77	164				
2/21/2024							149	194	
2/22/2024						188			215
2/23/2024		52							
8/20/2024	128		143	86	75				
8/21/2024		79				215		184	237
8/22/2024							130		
2/25/2025	110	69	110	93	69				
2/26/2025								186	
2/27/2025						181	133		213

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-28S	YGWC-29IB	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/1/2016								
6/2/2016								
6/6/2016								
6/7/2016								
6/8/2016								
6/9/2016	210	150	240					
7/25/2016								
7/26/2016								
7/27/2016								
7/28/2016								
8/1/2016								
8/2/2016	202	155	226					
8/30/2016				319				
8/31/2016					209			
9/13/2016								
9/14/2016						152		
9/15/2016								
9/16/2016								
9/19/2016								
9/20/2016								
9/21/2016	216	138	214					
11/1/2016								
11/2/2016								
11/3/2016								
11/4/2016						148		
11/7/2016	399	291						
11/8/2016			229					
11/14/2016				280				
11/28/2016					102			
12/15/2016						191		
1/10/2017								
1/11/2017								
1/12/2017								
1/13/2017								
1/16/2017						180		
1/18/2017	215		243					
1/19/2017		145						
2/21/2017	198							
2/22/2017		185	310		164			
2/23/2017								
2/24/2017				162				
3/1/2017								
3/2/2017								
3/3/2017						156		
3/6/2017								
3/7/2017								
3/8/2017								
4/26/2017								
4/27/2017								
4/28/2017						130		
5/1/2017								
5/2/2017								

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-28S	YGWC-29IB	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
5/3/2017								
5/5/2017	347		289					
5/8/2017		114		194	145			
5/26/2017						223		
6/27/2017								
6/28/2017						166		
6/29/2017								
6/30/2017								
7/5/2017		136	217					
7/7/2017	236							
7/10/2017								
7/11/2017				193				
7/17/2017					185			
10/3/2017						153		
10/4/2017								
10/5/2017		139	221					
10/6/2017								
10/9/2017	204							
10/10/2017				175				
10/11/2017							68	
10/12/2017								74
10/16/2017					218			
11/20/2017							139	179
1/10/2018								140
1/11/2018							153	
2/19/2018					173			119
2/20/2018							87	
4/2/2018				192				
4/3/2018							85	106
6/5/2018								
6/6/2018								
6/7/2018						146		
6/8/2018								
6/11/2018		156						
6/12/2018	243		234					
6/13/2018								
6/28/2018							88	112
8/6/2018					158			
8/7/2018							89	103
9/19/2018				186				
9/24/2018							82	107
9/25/2018								
9/26/2018								
10/1/2018						155		
10/2/2018		154						
10/3/2018	237		232					
2/25/2019					92			
3/26/2019								90
3/27/2019				170			75	
3/28/2019								
3/29/2019						150		
4/1/2019		147	238					

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/21/2025 6:33 PM View: Appendix III Interwell

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-28S	YGWC-29IB	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
4/2/2019	<25							
4/3/2019								
6/12/2019					226			
9/24/2019						146		
9/25/2019		162						
9/26/2019	239		241					
10/8/2019				172	276			
10/9/2019							119	98
3/17/2020				165	185			
3/18/2020								
3/19/2020	202		212			148		
3/20/2020		137						
3/24/2020								84
3/25/2020							158	
9/22/2020				141	281			
9/23/2020						161		
9/24/2020	226	133	209				170	77
9/25/2020								
3/1/2021				145				
3/2/2021					296			
3/3/2021	217	110	184			138		
3/4/2021							168	57
8/19/2021				134				
8/20/2021	192	110	194		254			
8/26/2021							249	
8/27/2021						150		
9/1/2021								
9/3/2021								88
2/8/2022	216	120	206	151	283		248	93
2/9/2022						156		
2/10/2022								
2/11/2022								
8/30/2022					244	153		
8/31/2022				116			242	92
9/1/2022	225	128	186					
2/7/2023					207	159	224	
2/8/2023		158		141				115
2/9/2023	226		184					
8/2/2023		152						
8/15/2023				186	230	157	225	83
8/16/2023	233		171					
8/17/2023								
2/20/2024				159	214	159	233	109
2/21/2024	235		213					
2/22/2024		146						
2/23/2024								
8/20/2024				155		184		
8/21/2024							235	94
8/22/2024	226	154	193					
2/25/2025				147		156	228	86
2/26/2025	217	148	202					
2/27/2025								

ND substitution: RL or RL/2 if <15% NDs.

FIGURE E.

Appendix III Trend Tests - Significant Results

Plant Yates Client: Southern Company Data: Yates AP-2 Printed 5/21/2025, 6:37 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-26I**	**-0.03661**	**-157**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWC-26S**	**0.01515**	**128**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWC-27S**	**-0.06024**	**-150**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GWA-2 (bg)**	**0.2946**	**117**	**81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-3D (bg)**	**-0.03782**	**-151**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-3I (bg)**	**-0.02614**	**-128**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-4I (bg)**	**0.08081**	**108**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-5D (bg)**	**-0.5175**	**-230**	**-111**	**Yes**	**25**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-17S (bg)**	**0.8777**	**241**	**111**	**Yes**	**25**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-18I (bg)**	**0.08815**	**127**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-20S (bg)**	**0.07794**	**157**	**111**	**Yes**	**25**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-40 (bg)**	**0.2046**	**94**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-47 (bg)**	**-0.3114**	**-152**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWC-26I**	**-0.3796**	**-158**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWC-26S**	**-0.3035**	**-121**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWC-28S**	**-0.2903**	**-120**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**

Appendix III Trend Tests - All Results

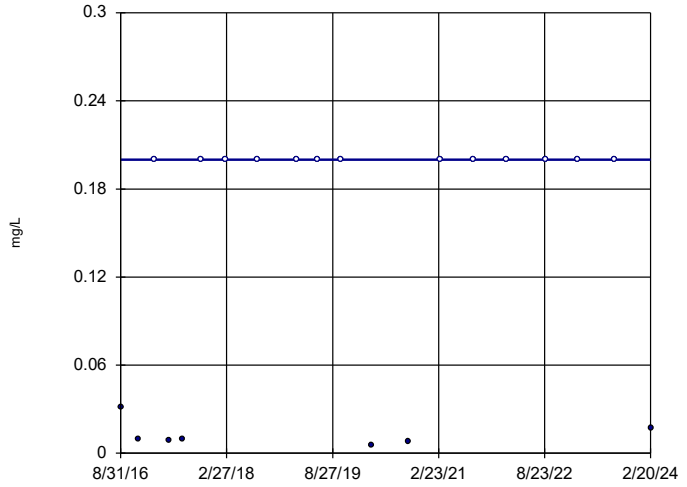
Plant Yates Client: Southern Company Data: Yates AP-2 Printed 5/21/2025, 6:37 PM

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-26I**	**-0.03661**	**-157**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWC-26S**	**0.01515**	**128**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWC-27I	0.01975	40	105	No	24	0	n/a	0.01	NP
Boron (mg/L)	**YGWC-27S**	**-0.06024**	**-150**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWC-28I	-0.08208	-100	-105	No	24	0	n/a	0.01	NP
Boron (mg/L)	YGWC-28S	-0.02856	-53	-105	No	24	0	n/a	0.01	NP
Boron (mg/L)	YGWC-29IB	-0.006612	-42	-105	No	24	0	n/a	0.01	NP
Chloride (mg/L)	**GWA-2 (bg)**	**0.2946**	**117**	**81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-1D (bg)	-0.01295	-75	-105	No	24	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-1I (bg)	-0.01972	-77	-105	No	24	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-2I (bg)	-0.02326	-90	-105	No	24	0	n/a	0.01	NP
Chloride (mg/L)	**YGWA-3D (bg)**	**-0.03782**	**-151**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-3I (bg)**	**-0.02614**	**-128**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-4I (bg)**	**0.08081**	**108**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-5D (bg)**	**-0.5175**	**-230**	**-111**	**Yes**	**25**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-5I (bg)	0.02095	38	111	No	25	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-14S (bg)	0.06174	56	105	No	24	0	n/a	0.01	NP
Chloride (mg/L)	**YGWA-17S (bg)**	**0.8777**	**241**	**111**	**Yes**	**25**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-18I (bg)**	**0.08815**	**127**	**105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-18S (bg)	0.06848	73	105	No	24	0	n/a	0.01	NP
Chloride (mg/L)	**YGWA-20S (bg)**	**0.07794**	**157**	**111**	**Yes**	**25**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-21I (bg)	-0.06042	-73	-111	No	25	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-30I (bg)	-0.03904	-105	-105	No	24	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-39 (bg)	0.4364	84	87	No	21	0	n/a	0.01	NP
Chloride (mg/L)	**YGWA-40 (bg)**	**0.2046**	**94**	**87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-47 (bg)**	**-0.3114**	**-152**	**-87**	**Yes**	**21**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWC-26I**	**-0.3796**	**-158**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWC-26S**	**-0.3035**	**-121**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWC-28S**	**-0.2903**	**-120**	**-105**	**Yes**	**24**	**0**	**n/a**	**0.01**	**NP**

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
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

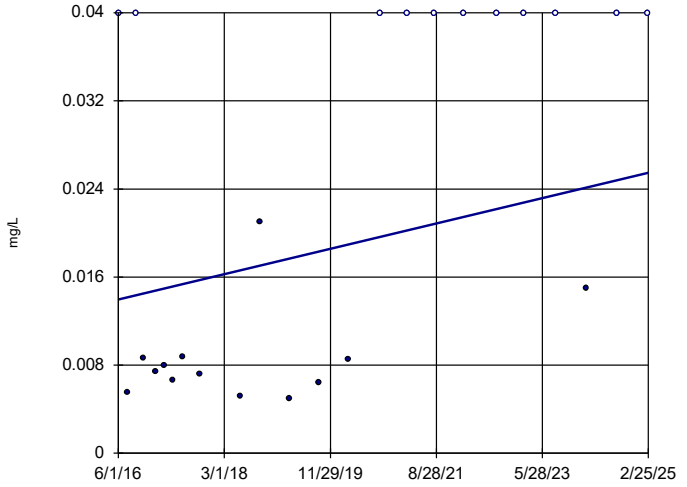
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/21/2025 6:36 PM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
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

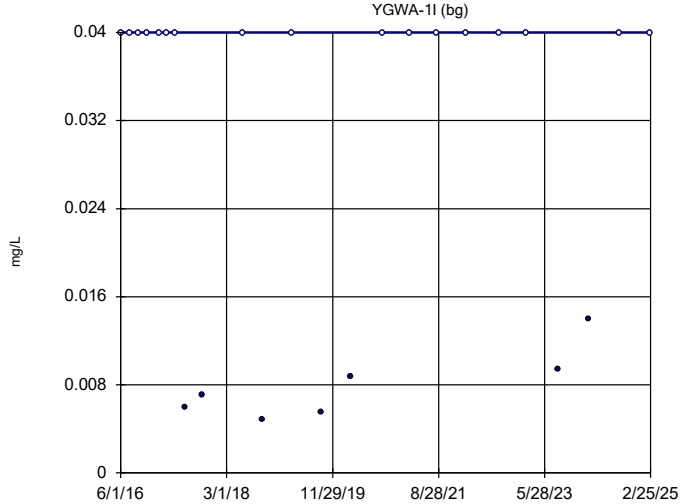
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/21/2025 6:36 PM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
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

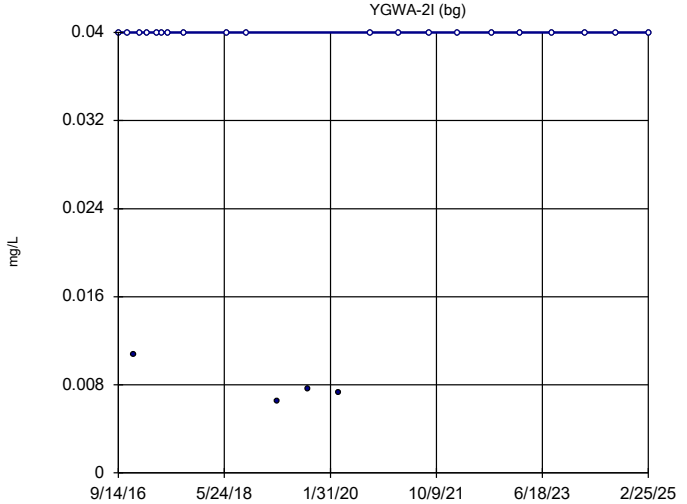
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/21/2025 6:36 PM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
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

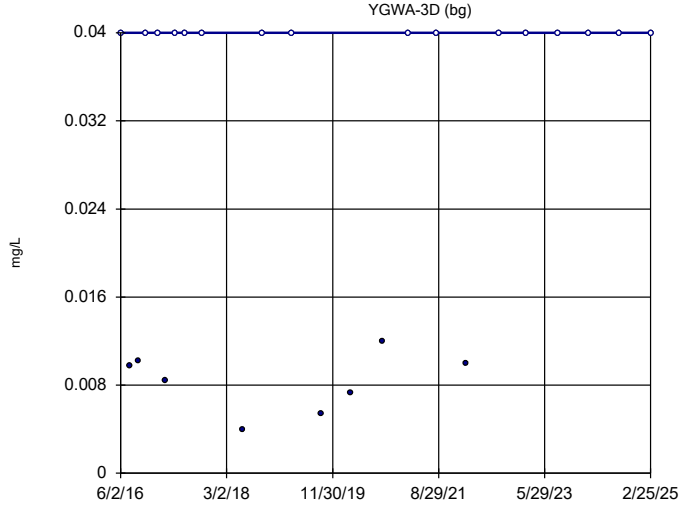
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/21/2025 6:36 PM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
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

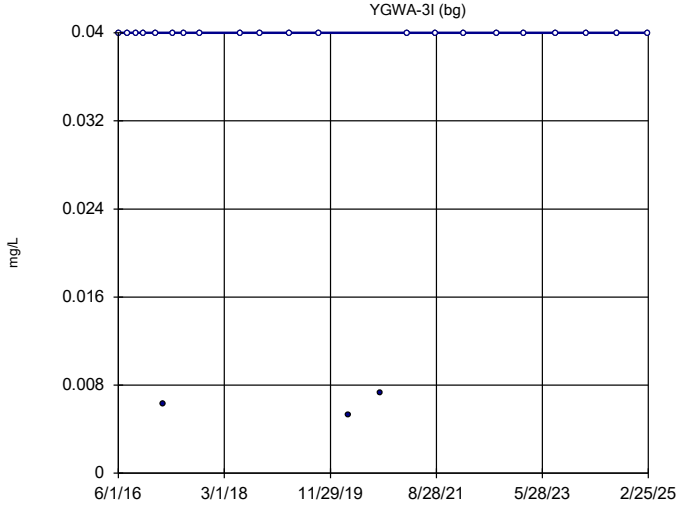
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/21/2025 6:36 PM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
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

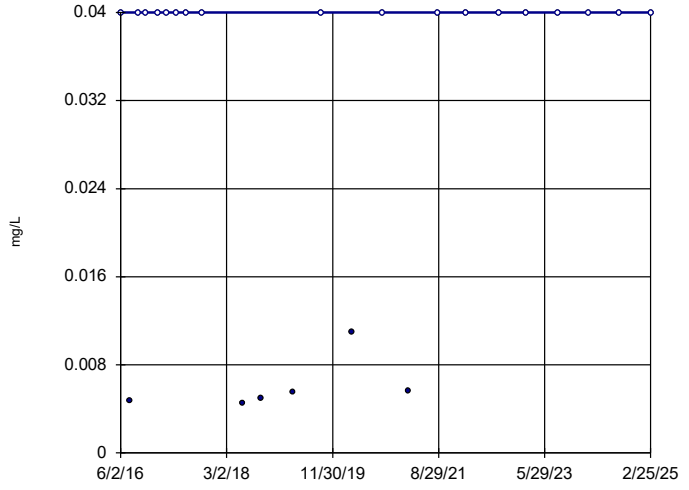
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/21/2025 6:36 PM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-4I (bg)



n = 24

Slope = 0 units per year.

Mann-Kendall statistic = 31
critical = 105

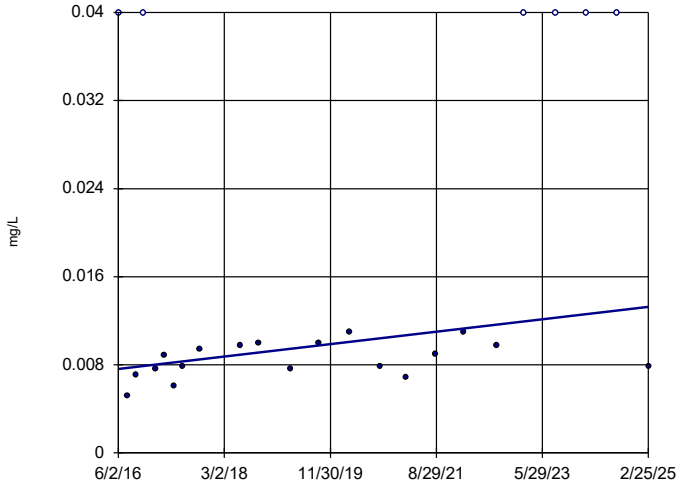
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/21/2025 6:36 PM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
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

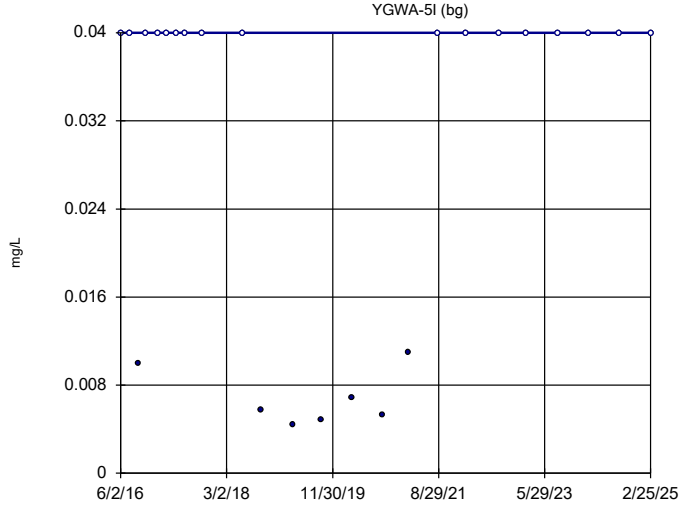
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/21/2025 6:36 PM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
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

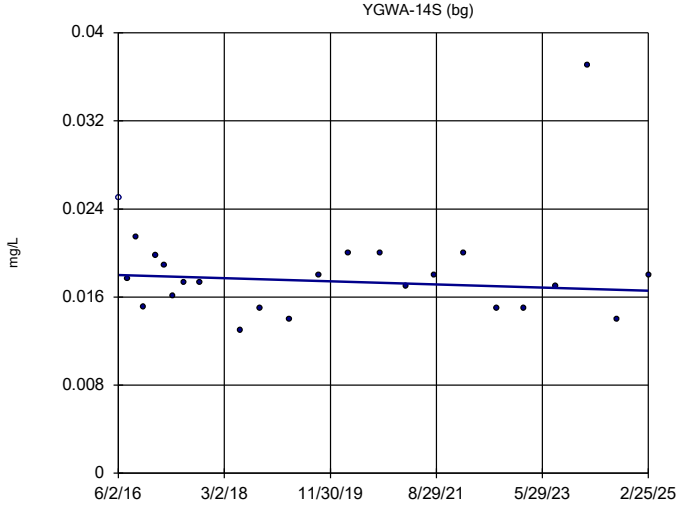
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Boron Analysis Run 5/21/2025 6:36 PM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
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

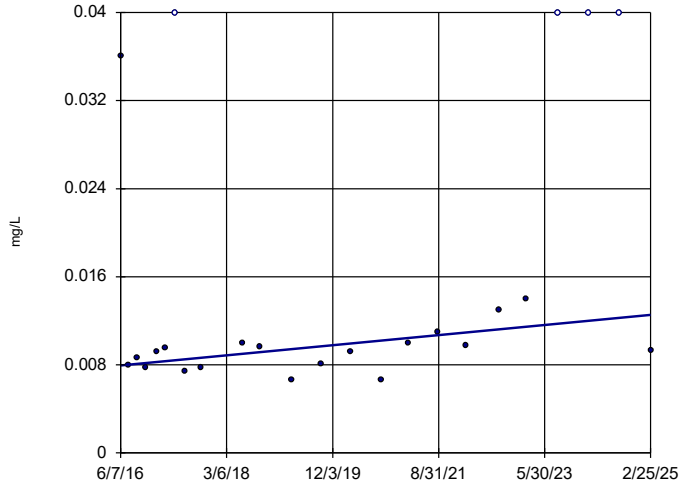
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Boron Analysis Run 5/21/2025 6:36 PM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
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

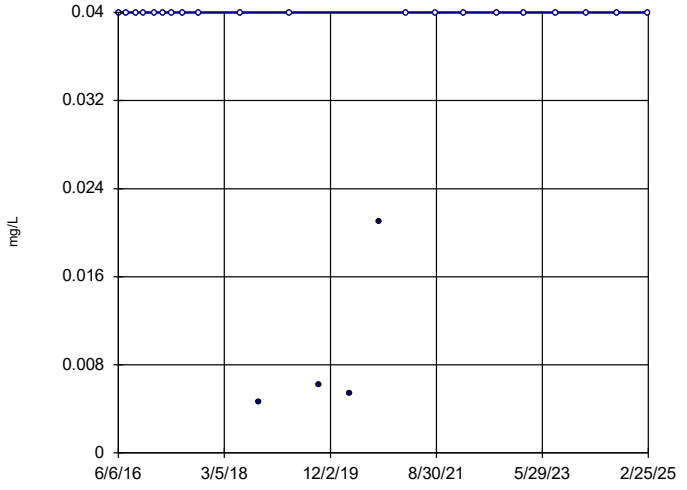
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Boron Analysis Run 5/21/2025 6:36 PM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
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

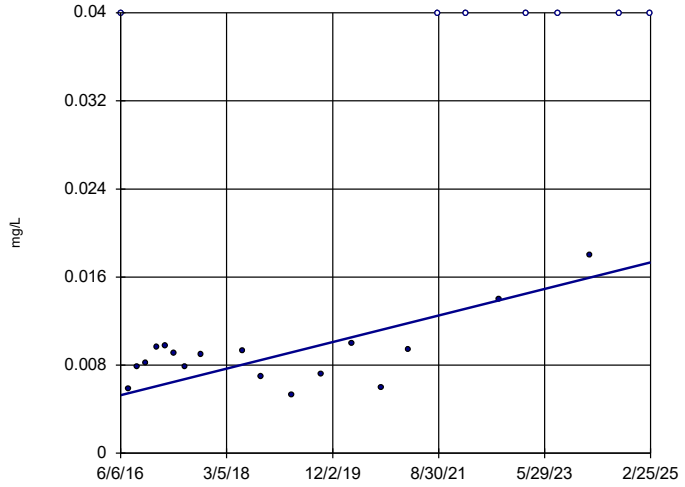
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Boron Analysis Run 5/21/2025 6:36 PM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
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

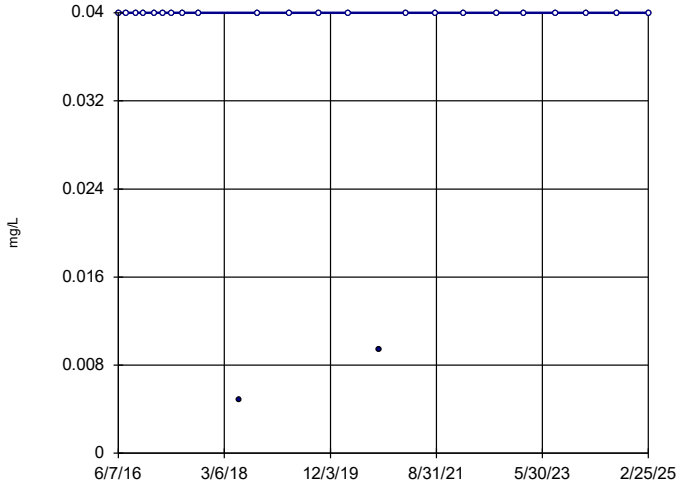
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/21/2025 6:36 PM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
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

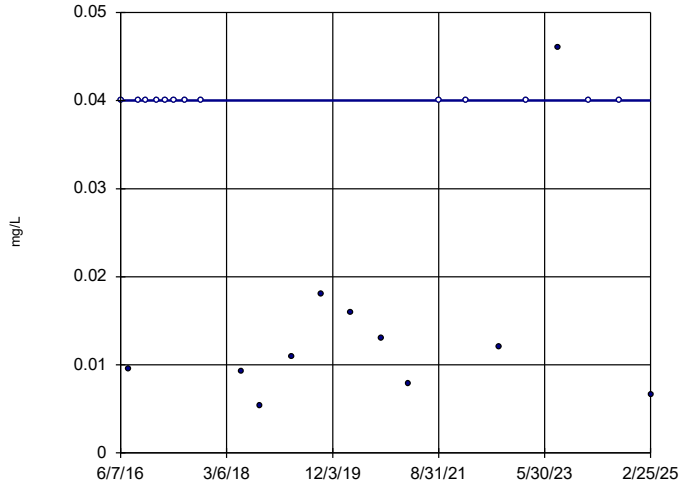
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/21/2025 6:36 PM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
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

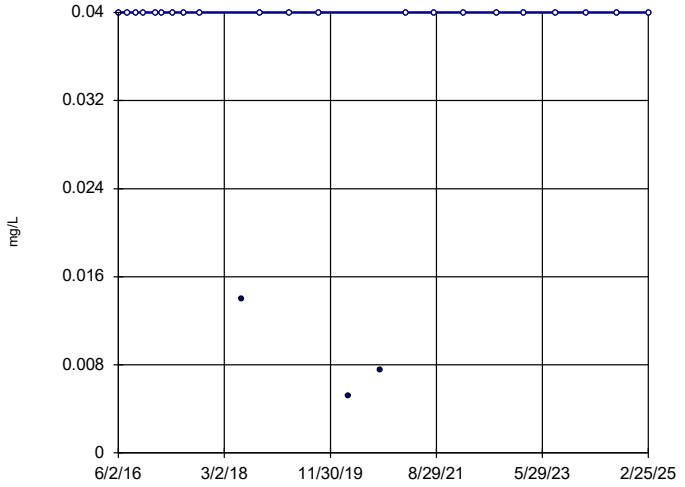
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/21/2025 6:36 PM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
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

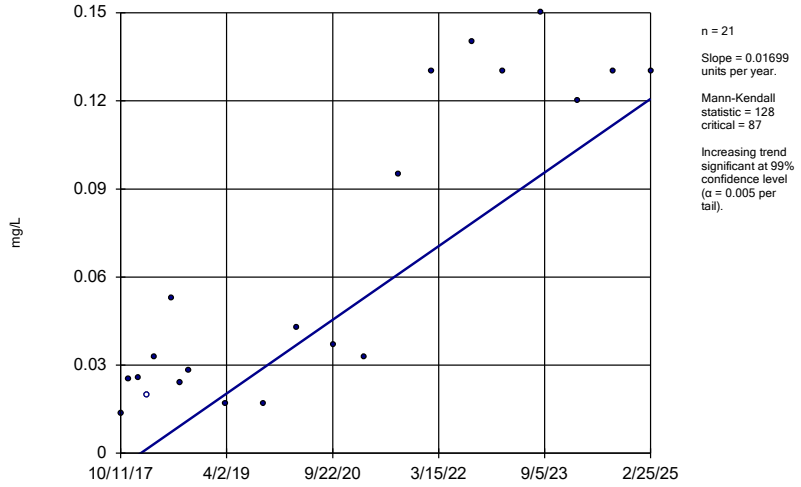
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/21/2025 6:36 PM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 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

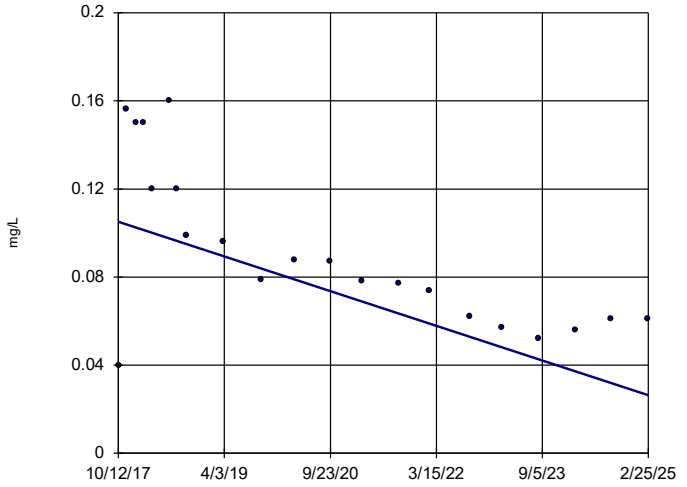
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/21/2025 6:36 PM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-40 (bg)



n = 21

Slope = -0.01069 units per year.

Mann-Kendall statistic = -141
critical = -87

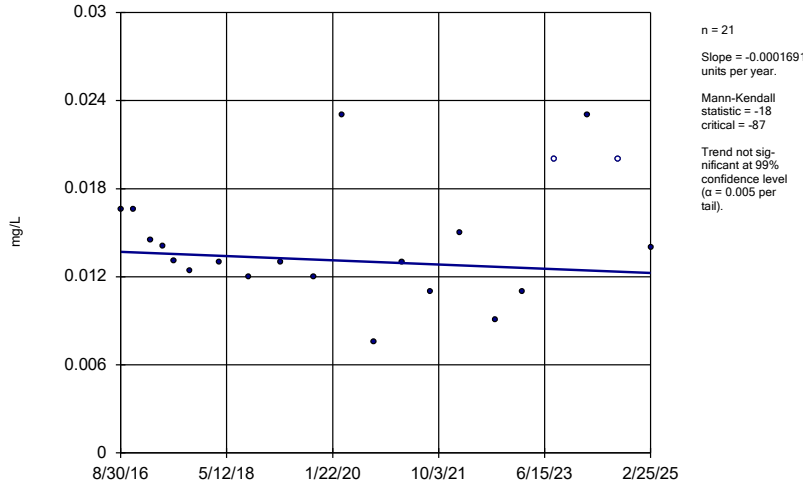
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/21/2025 6:36 PM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
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

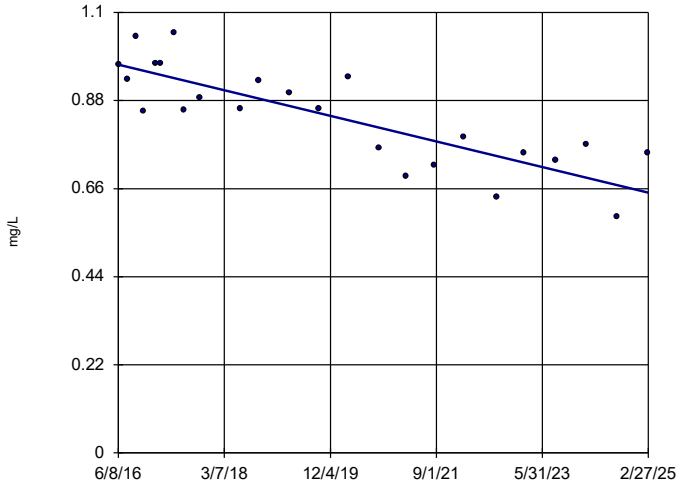
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/21/2025 6:36 PM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-26I



n = 24

Slope = -0.03661 units per year.

Mann-Kendall statistic = -157
critical = -105

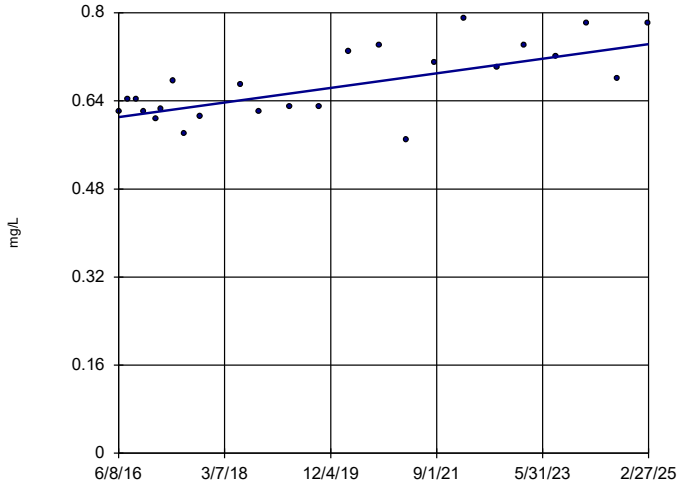
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/21/2025 6:36 PM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-26S



n = 24

Slope = 0.01515 units per year.

Mann-Kendall statistic = 128 critical = 105

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

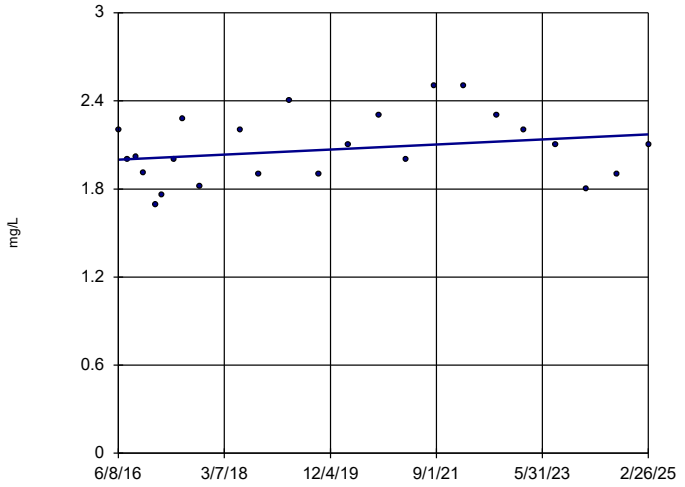
Constituent: Boron Analysis Run 5/21/2025 6:36 PM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-27I



n = 24

Slope = 0.01975 units per year.

Mann-Kendall statistic = 40 critical = 105

Trend not significant at 99% confidence level (α = 0.005 per tail).

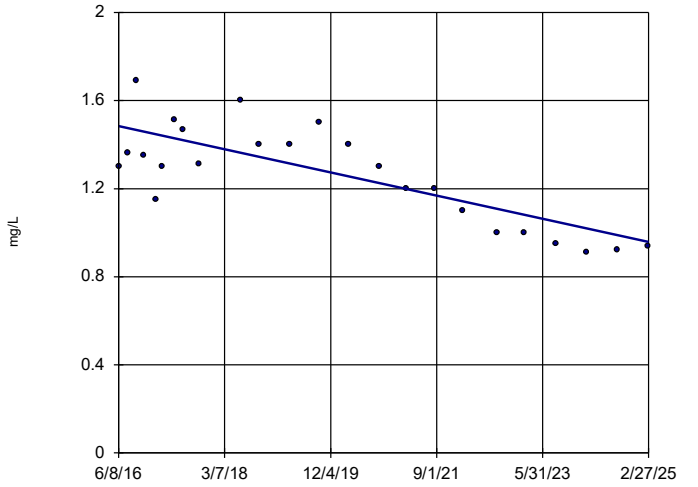
Constituent: Boron Analysis Run 5/21/2025 6:36 PM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-27S



n = 24

Slope = -0.06024 units per year.

Mann-Kendall statistic = -150 critical = -105

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

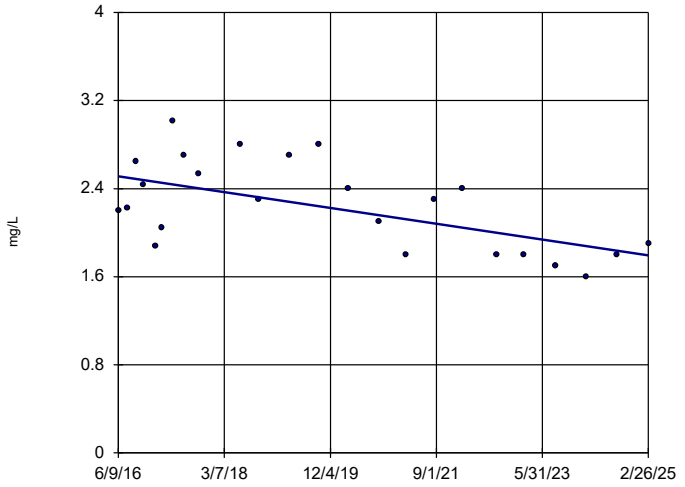
Constituent: Boron Analysis Run 5/21/2025 6:36 PM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-28I



n = 24

Slope = -0.08208 units per year.

Mann-Kendall statistic = -100 critical = -105

Trend not significant at 99% confidence level (α = 0.005 per tail).

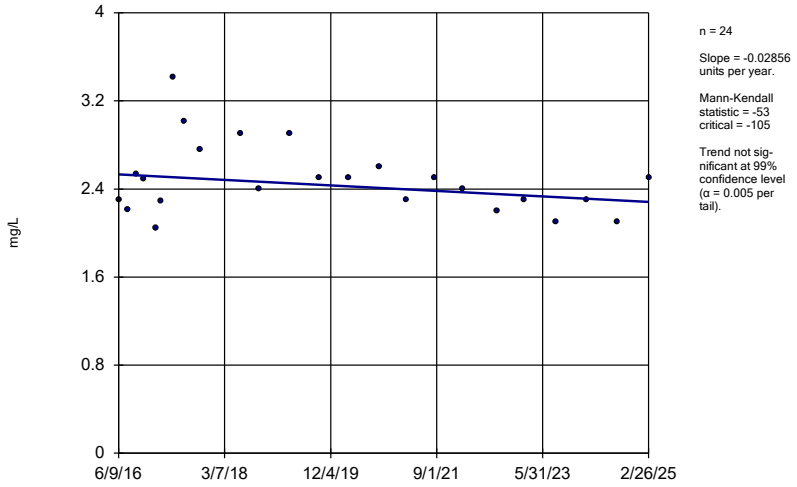
Constituent: Boron Analysis Run 5/21/2025 6:36 PM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-28S



n = 24

Slope = -0.02856 units per year.

Mann-Kendall statistic = -53
critical = -105

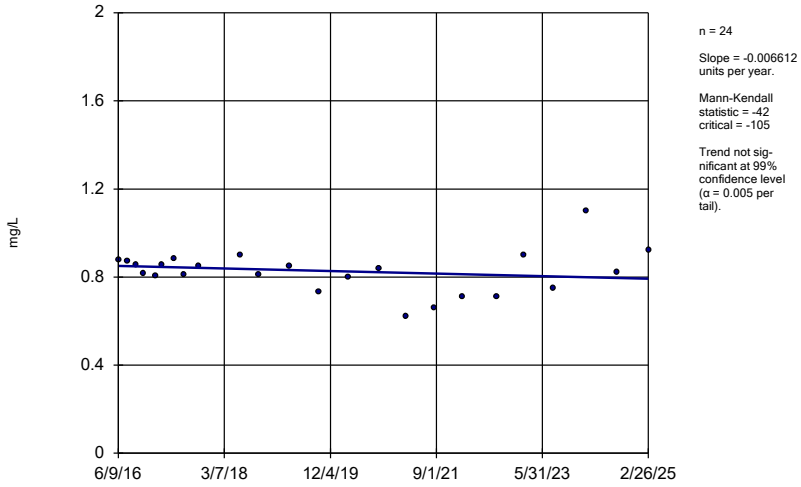
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/21/2025 6:36 PM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-29IB



n = 24

Slope = -0.006612 units per year.

Mann-Kendall statistic = -42
critical = -105

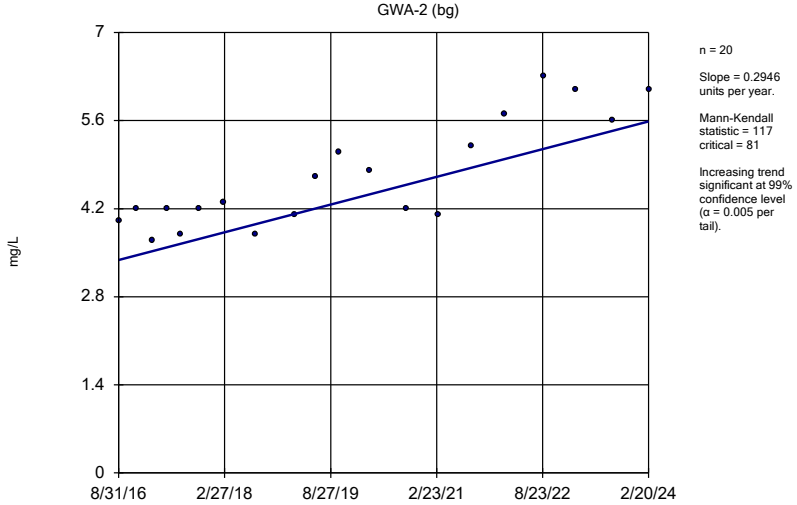
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/21/2025 6:36 PM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWA-2 (bg)



n = 20

Slope = 0.2946 units per year.

Mann-Kendall statistic = 117
critical = 81

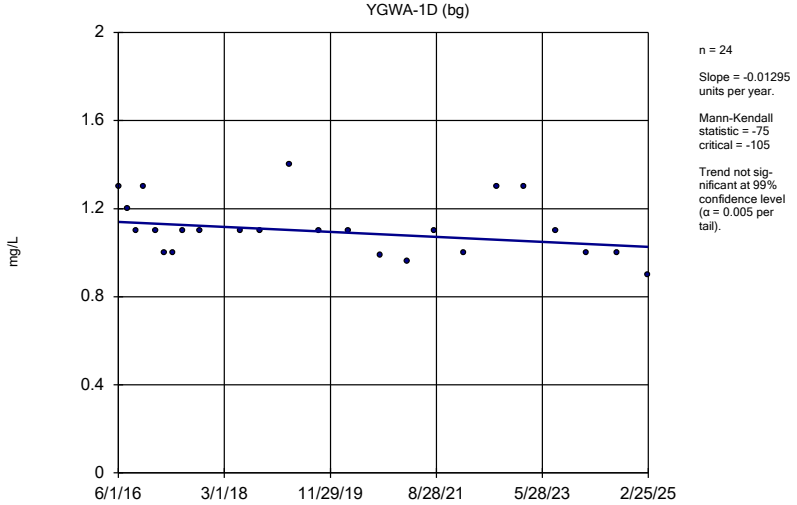
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/21/2025 6:36 PM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-1D (bg)



n = 24

Slope = -0.01295 units per year.

Mann-Kendall statistic = -75
critical = -105

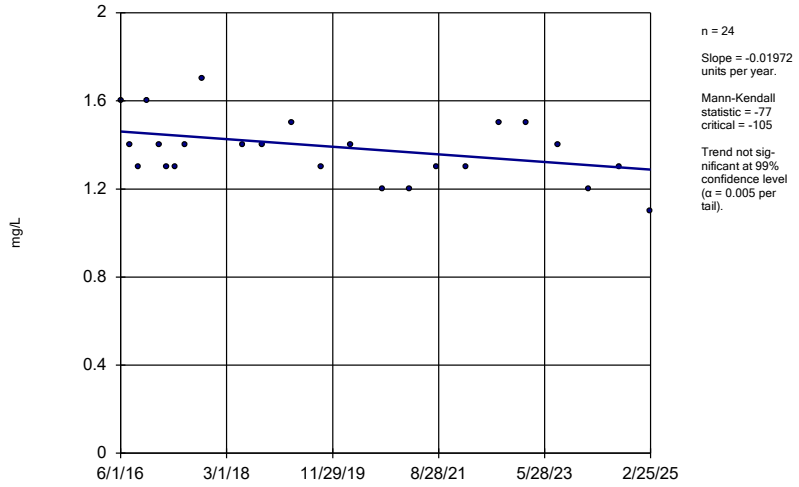
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/21/2025 6:36 PM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-1I (bg)



n = 24

Slope = -0.01972 units per year.

Mann-Kendall statistic = -77 critical = -105

Trend not significant at 99% confidence level (α = 0.005 per tail).

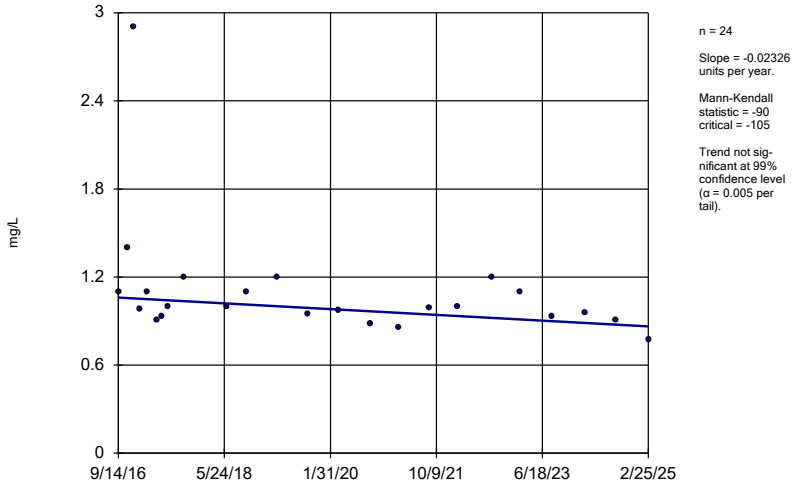
Constituent: Chloride Analysis Run 5/21/2025 6:36 PM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-2I (bg)



n = 24

Slope = -0.02326 units per year.

Mann-Kendall statistic = -90 critical = -105

Trend not significant at 99% confidence level (α = 0.005 per tail).

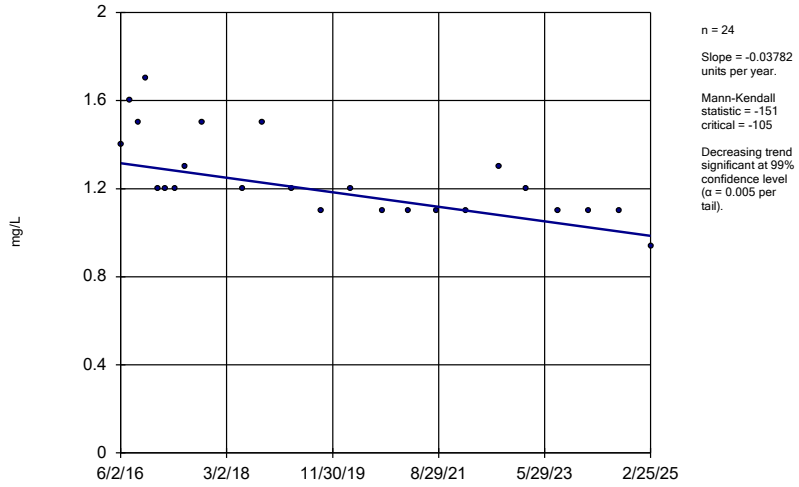
Constituent: Chloride Analysis Run 5/21/2025 6:36 PM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3D (bg)



n = 24

Slope = -0.03782 units per year.

Mann-Kendall statistic = -151 critical = -105

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

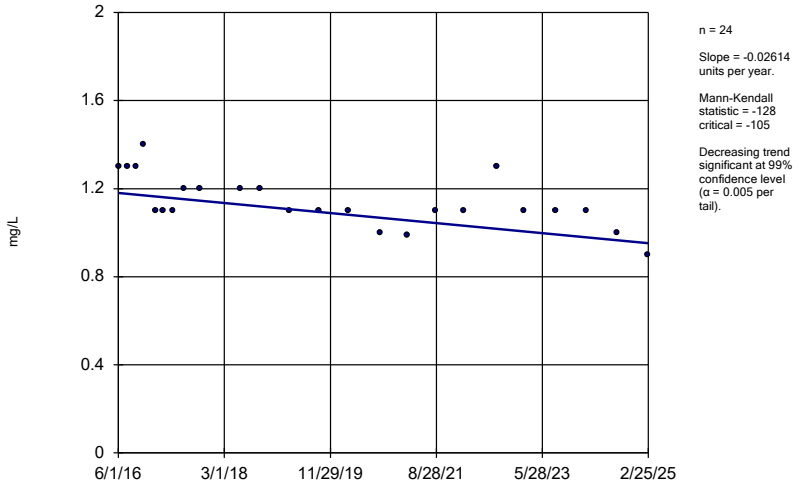
Constituent: Chloride Analysis Run 5/21/2025 6:36 PM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3I (bg)



n = 24

Slope = -0.02614 units per year.

Mann-Kendall statistic = -128 critical = -105

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

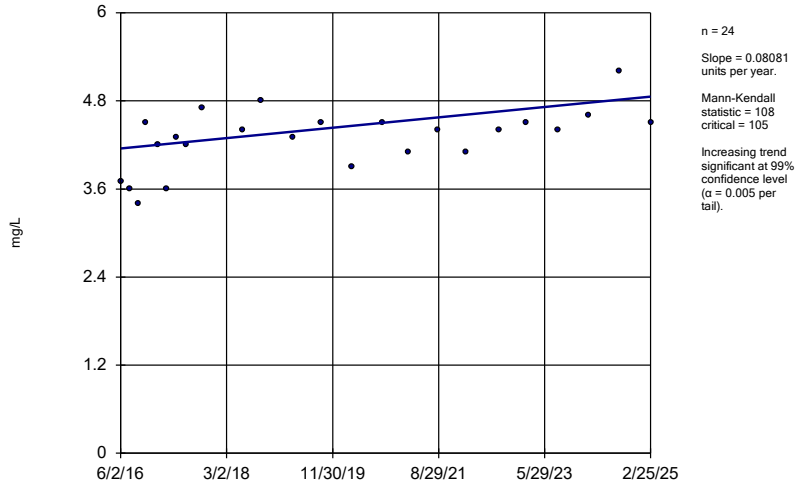
Constituent: Chloride Analysis Run 5/21/2025 6:36 PM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-4I (bg)



n = 24

Slope = 0.08081 units per year.

Mann-Kendall statistic = 108 critical = 105

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

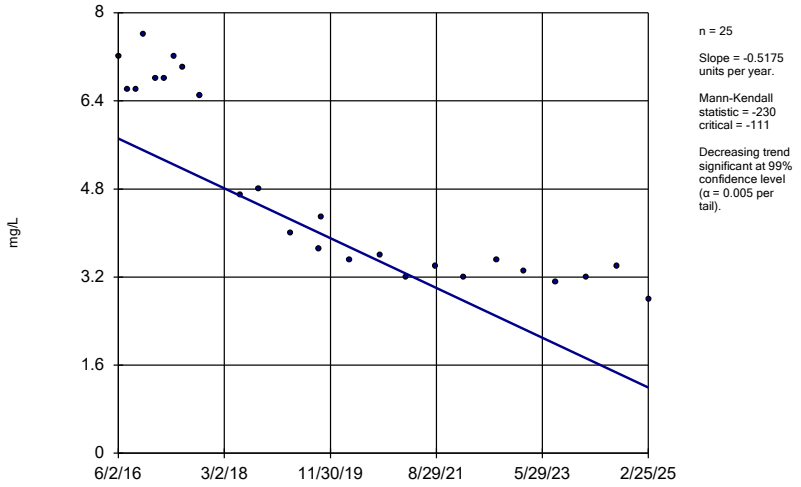
Constituent: Chloride Analysis Run 5/21/2025 6:36 PM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-5D (bg)



n = 25

Slope = -0.5175 units per year.

Mann-Kendall statistic = -230 critical = -111

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

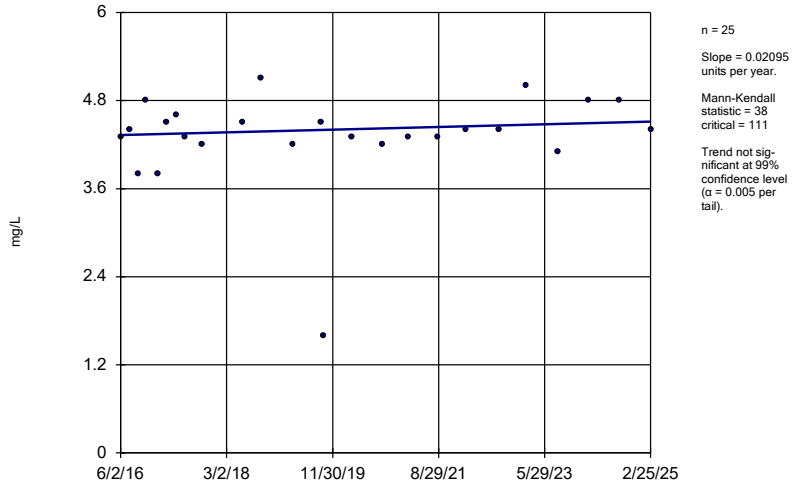
Constituent: Chloride Analysis Run 5/21/2025 6:36 PM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-5I (bg)



n = 25

Slope = 0.02095 units per year.

Mann-Kendall statistic = 38 critical = 111

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

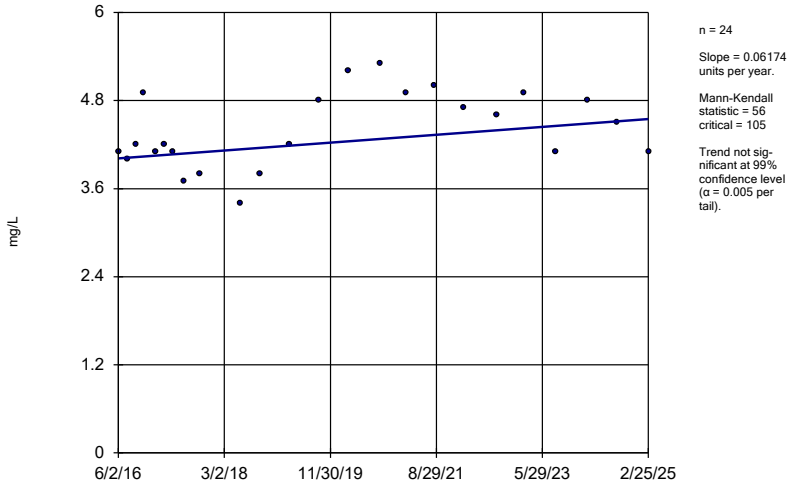
Constituent: Chloride Analysis Run 5/21/2025 6:36 PM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-14S (bg)



n = 24

Slope = 0.06174 units per year.

Mann-Kendall statistic = 56 critical = 105

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

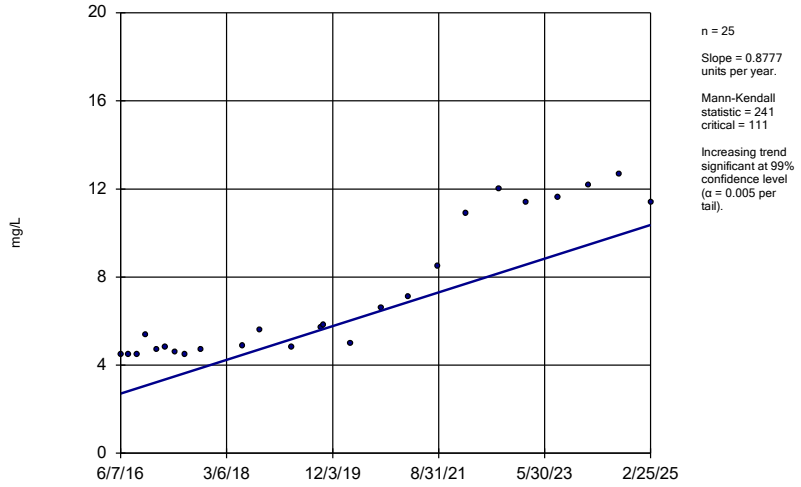
Constituent: Chloride Analysis Run 5/21/2025 6:36 PM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-17S (bg)



n = 25

Slope = 0.8777 units per year.

Mann-Kendall statistic = 241 critical = 111

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

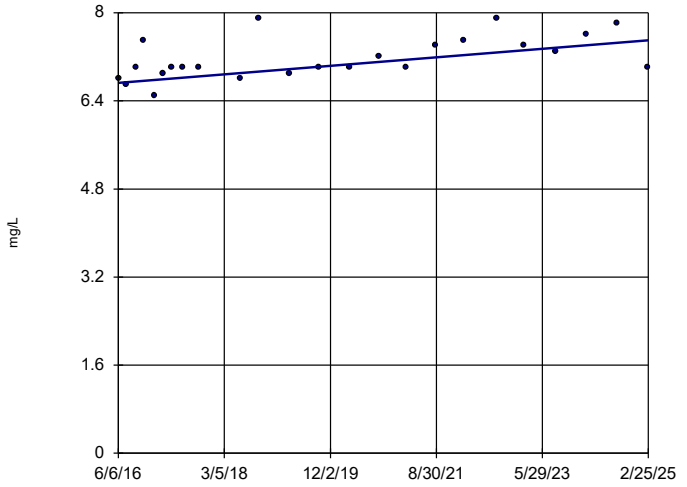
Constituent: Chloride Analysis Run 5/21/2025 6:36 PM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-18I (bg)



n = 24

Slope = 0.08815 units per year.

Mann-Kendall statistic = 127 critical = 105

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

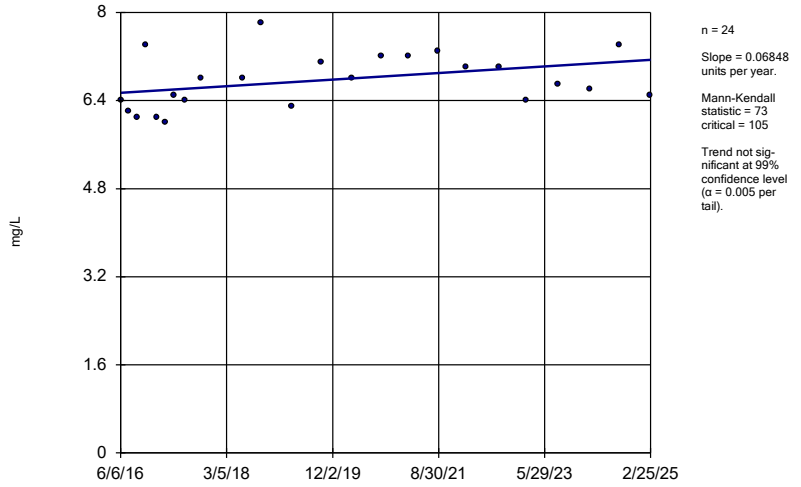
Constituent: Chloride Analysis Run 5/21/2025 6:36 PM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-18S (bg)



n = 24

Slope = 0.06848 units per year.

Mann-Kendall statistic = 73 critical = 105

Trend not significant at 99% confidence level (α = 0.005 per tail).

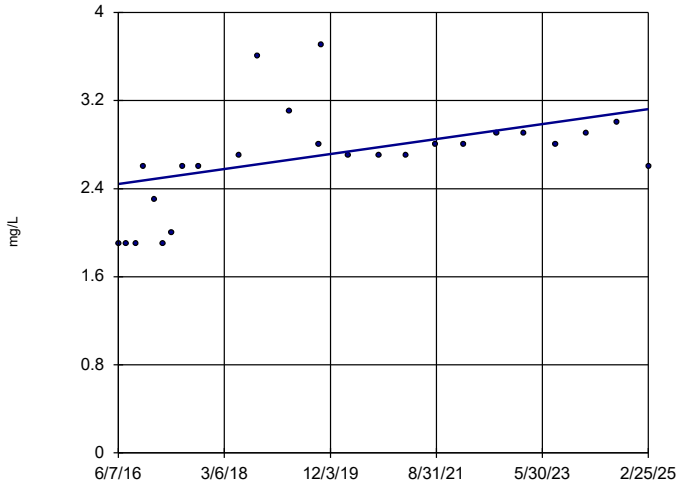
Constituent: Chloride Analysis Run 5/21/2025 6:36 PM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-20S (bg)



n = 25

Slope = 0.07794 units per year.

Mann-Kendall statistic = 157 critical = 111

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

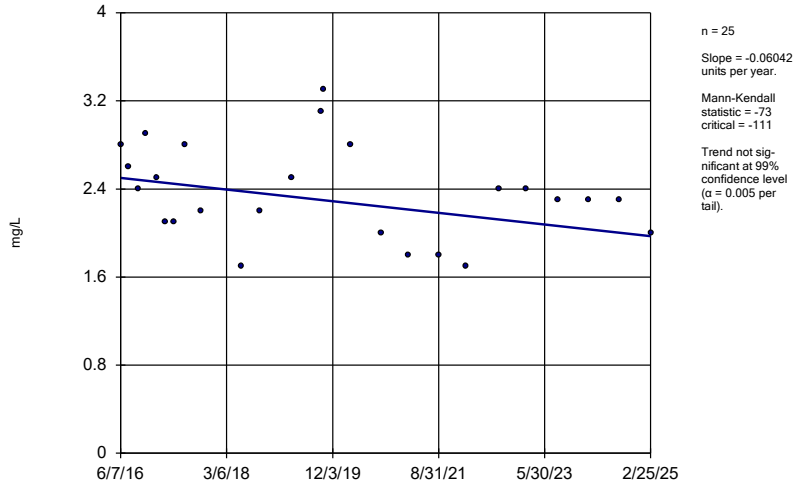
Constituent: Chloride Analysis Run 5/21/2025 6:36 PM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-21I (bg)



n = 25

Slope = -0.06042 units per year.

Mann-Kendall statistic = -73
critical = -111

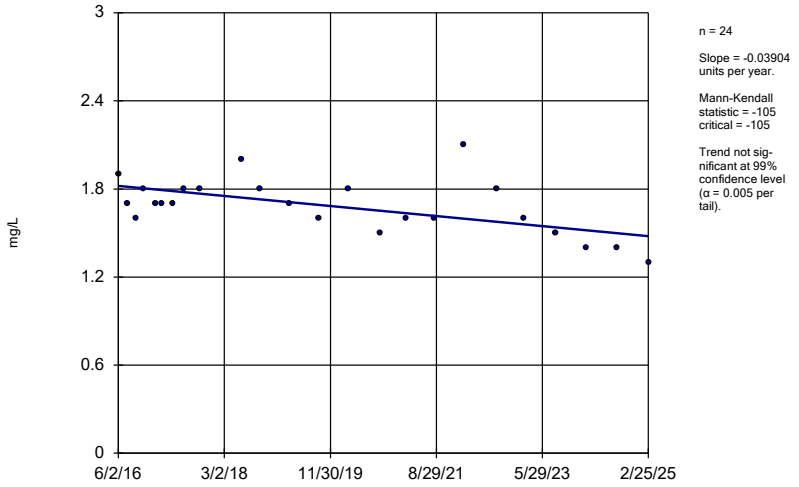
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/21/2025 6:36 PM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-30I (bg)



n = 24

Slope = -0.03904 units per year.

Mann-Kendall statistic = -105
critical = -105

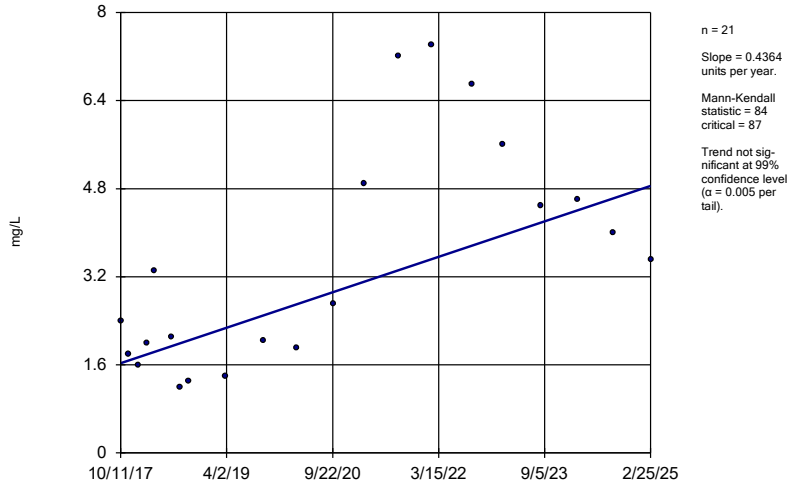
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/21/2025 6:36 PM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-39 (bg)



n = 21

Slope = 0.4364 units per year.

Mann-Kendall statistic = 84
critical = 87

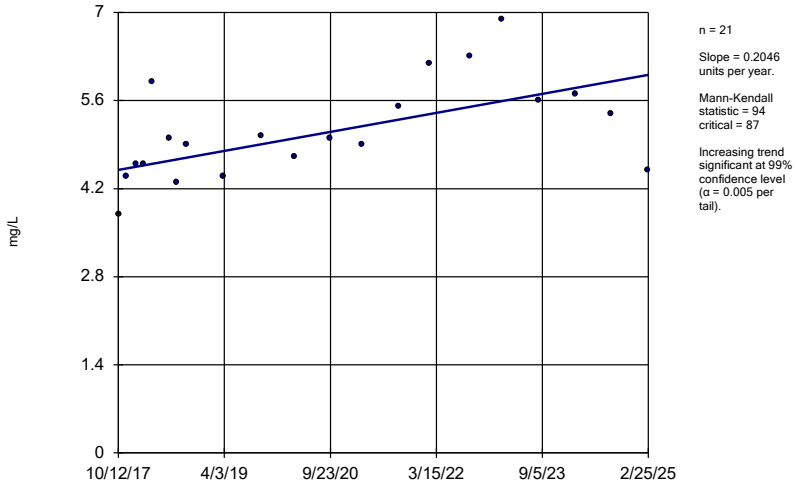
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/21/2025 6:36 PM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-40 (bg)



n = 21

Slope = 0.2046 units per year.

Mann-Kendall statistic = 94
critical = 87

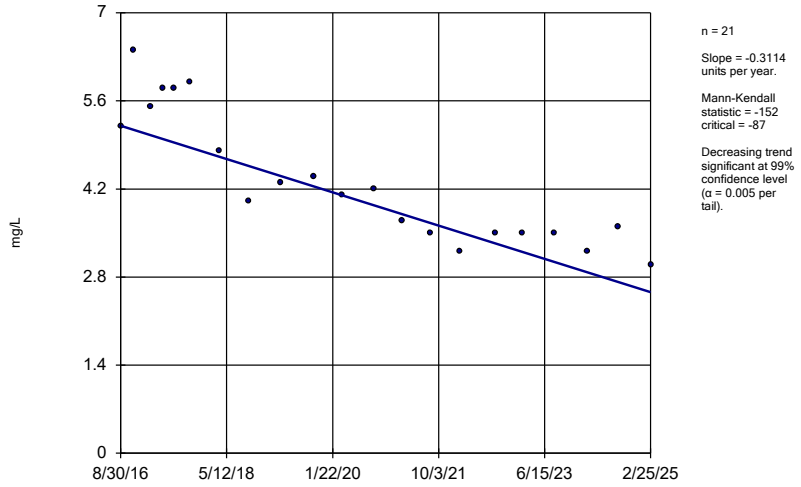
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/21/2025 6:36 PM View: Appendix III Trend Tests
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-47 (bg)



n = 21

Slope = -0.3114 units per year.

Mann-Kendall statistic = -152 critical = -87

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

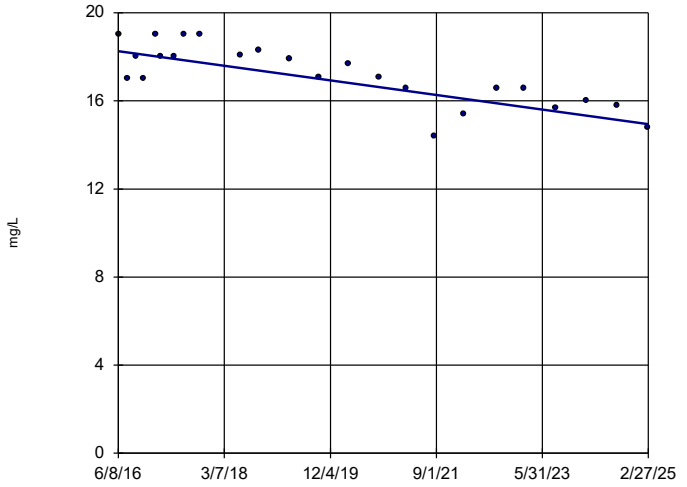
Constituent: Chloride Analysis Run 5/21/2025 6:36 PM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-26I



n = 24

Slope = -0.3796 units per year.

Mann-Kendall statistic = -158 critical = -105

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

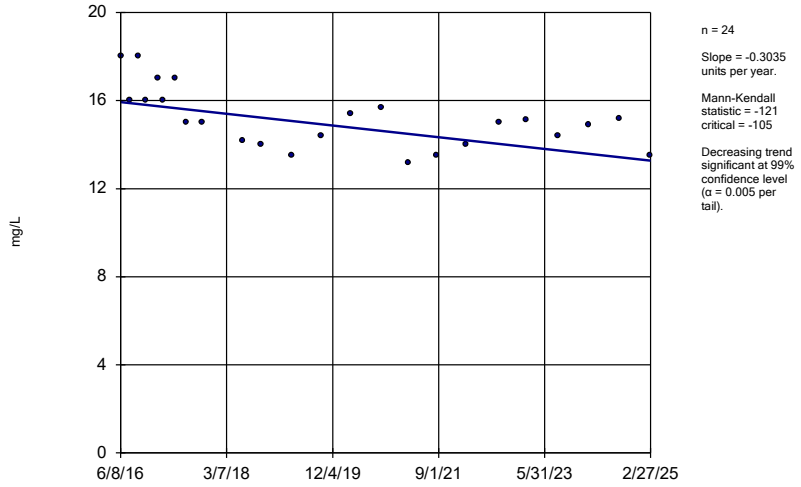
Constituent: Chloride Analysis Run 5/21/2025 6:36 PM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-26S



n = 24

Slope = -0.3035 units per year.

Mann-Kendall statistic = -121 critical = -105

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

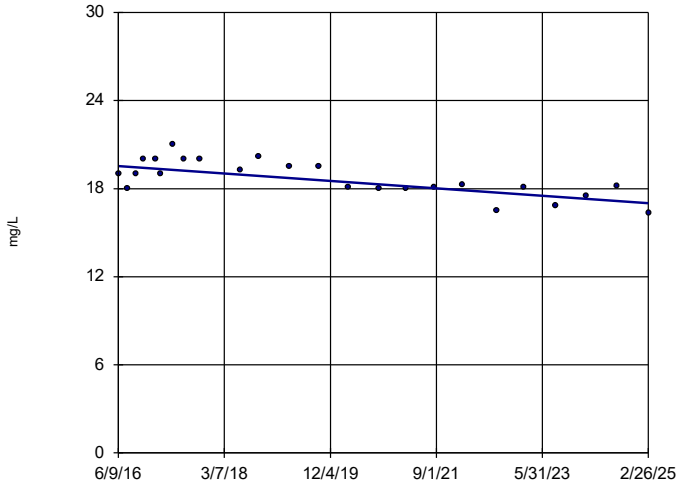
Constituent: Chloride Analysis Run 5/21/2025 6:36 PM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-28S



n = 24

Slope = -0.2903 units per year.

Mann-Kendall statistic = -120 critical = -105

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/21/2025 6:36 PM View: Appendix III Trend Tests

Plant Yates Client: Southern Company Data: Yates AP-2

FIGURE F.

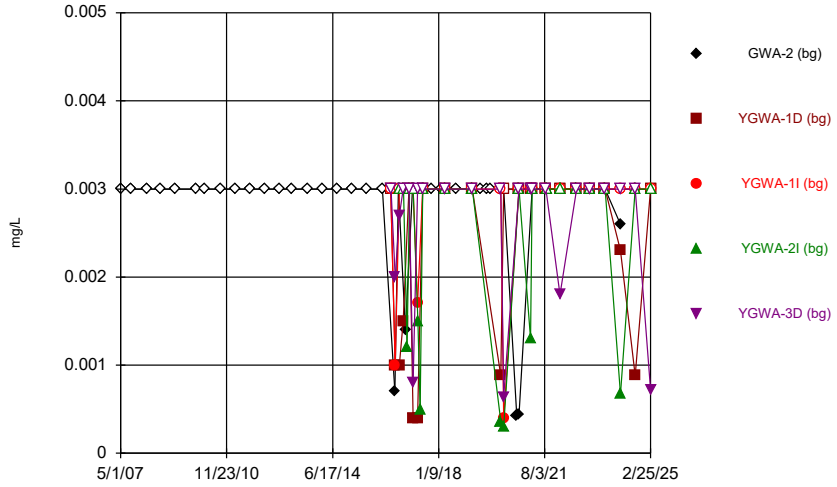
Upper Tolerance Limits Summary Table

Plant Yates Client: Southern Company Data: Yates AP-2 Printed 5/21/2025, 6:41 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)

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

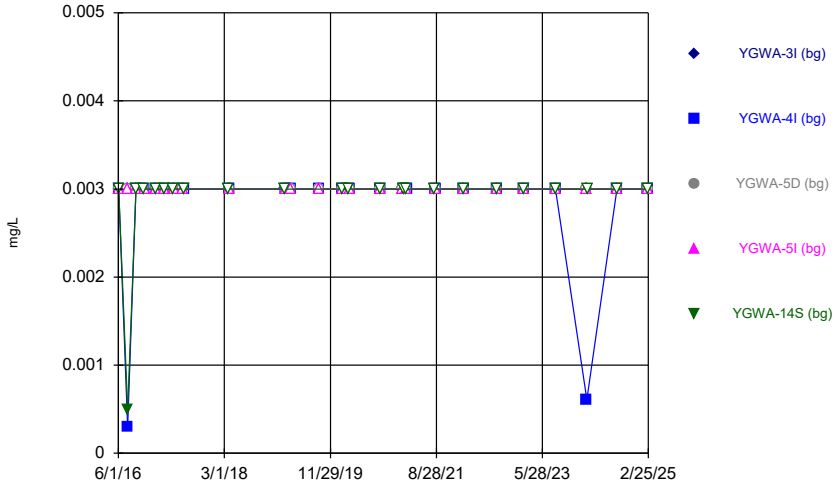
Time Series



Constituent: Antimony Analysis Run 5/21/2025 6:38 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

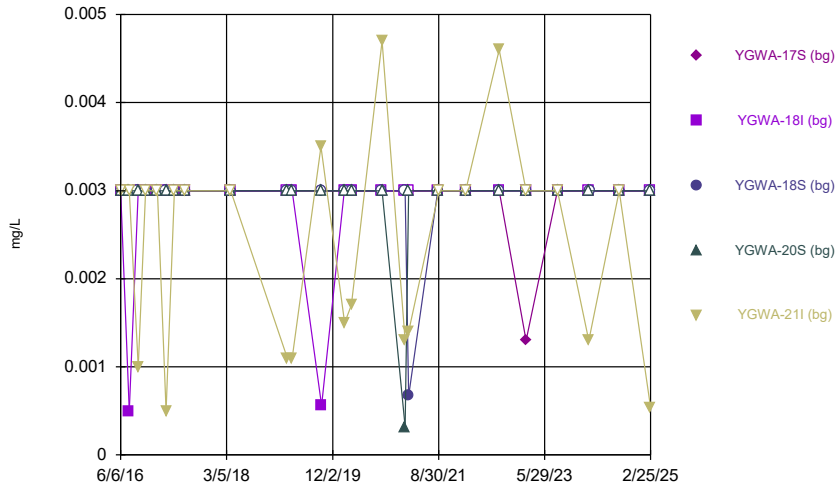
Time Series



Constituent: Antimony Analysis Run 5/21/2025 6:38 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

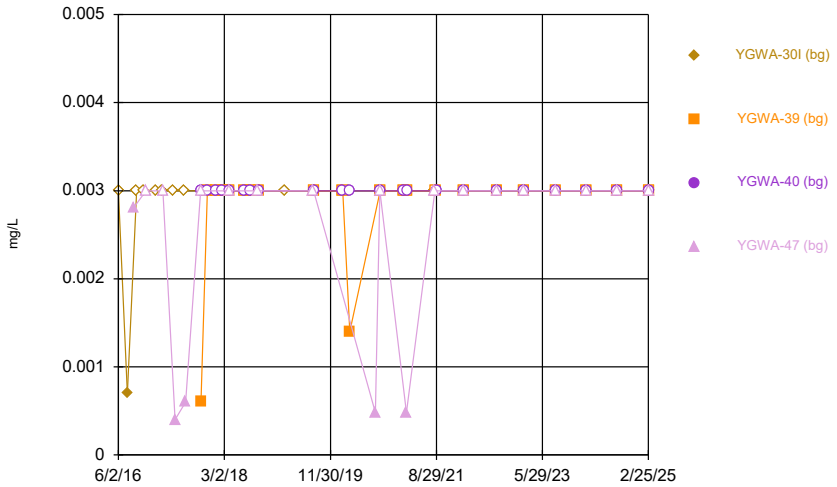
Time Series



Constituent: Antimony Analysis Run 5/21/2025 6:38 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

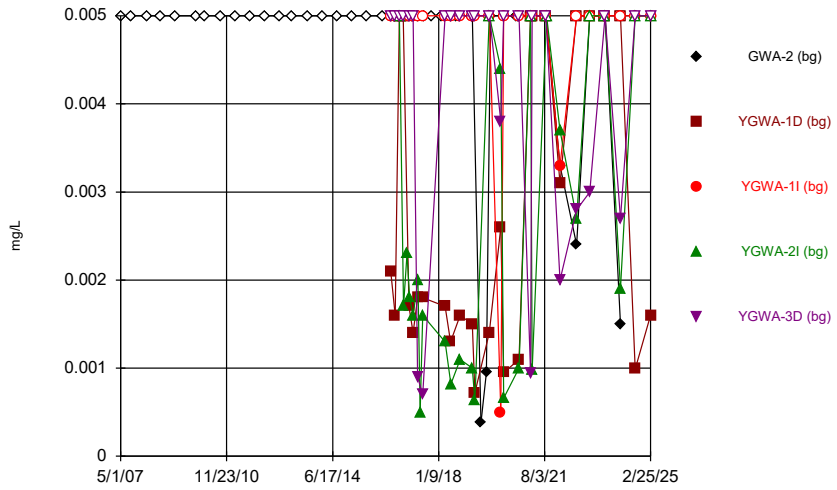
Time Series



Constituent: Antimony Analysis Run 5/21/2025 6:38 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

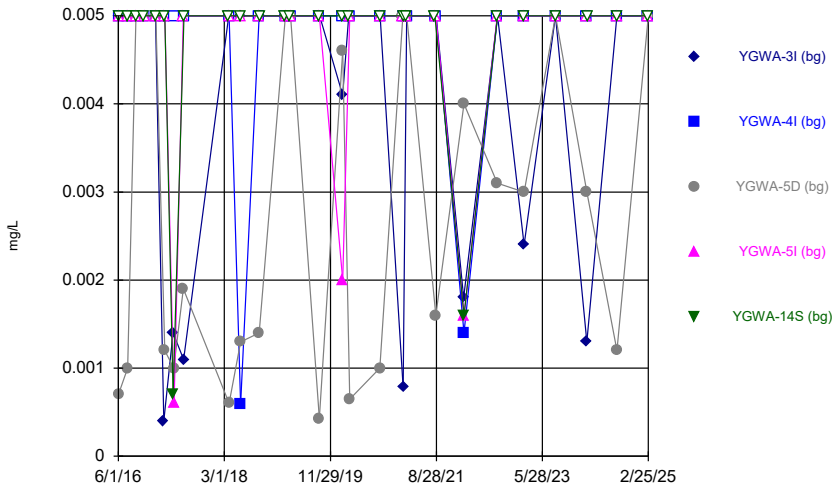
Time Series



Constituent: Arsenic Analysis Run 5/21/2025 6:38 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

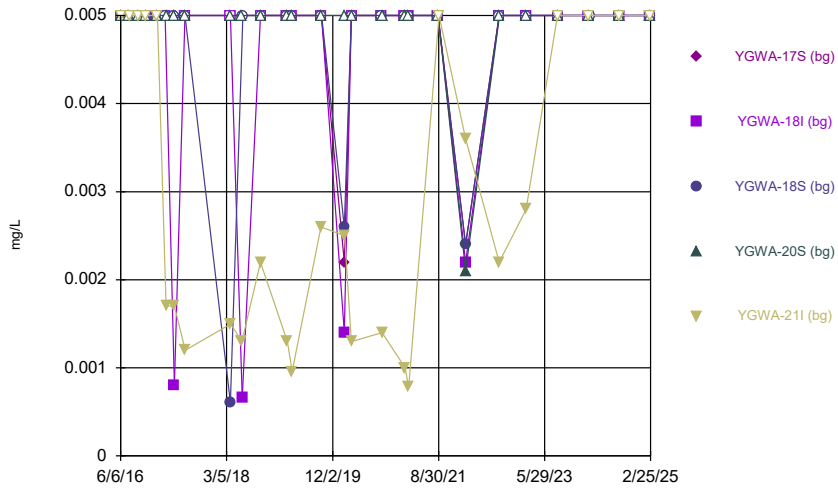
Time Series



Constituent: Arsenic Analysis Run 5/21/2025 6:38 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

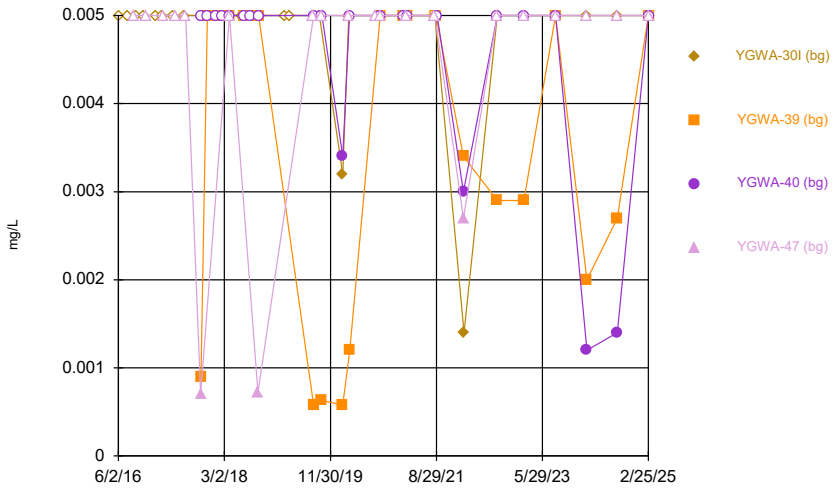
Time Series



Constituent: Arsenic Analysis Run 5/21/2025 6:38 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

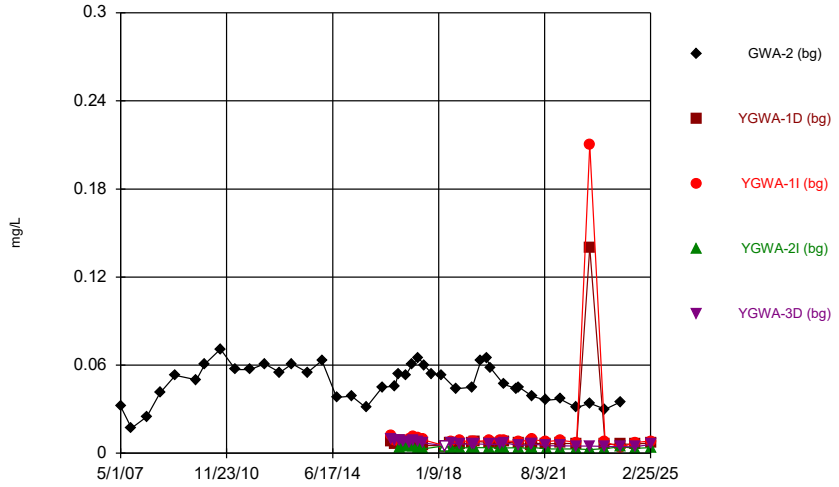
Time Series



Constituent: Arsenic Analysis Run 5/21/2025 6:38 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

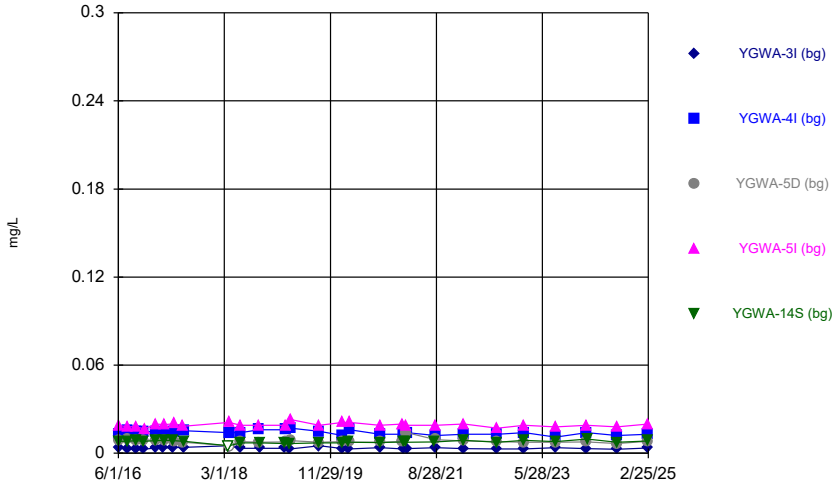
Time Series



Constituent: Barium Analysis Run 5/21/2025 6:38 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

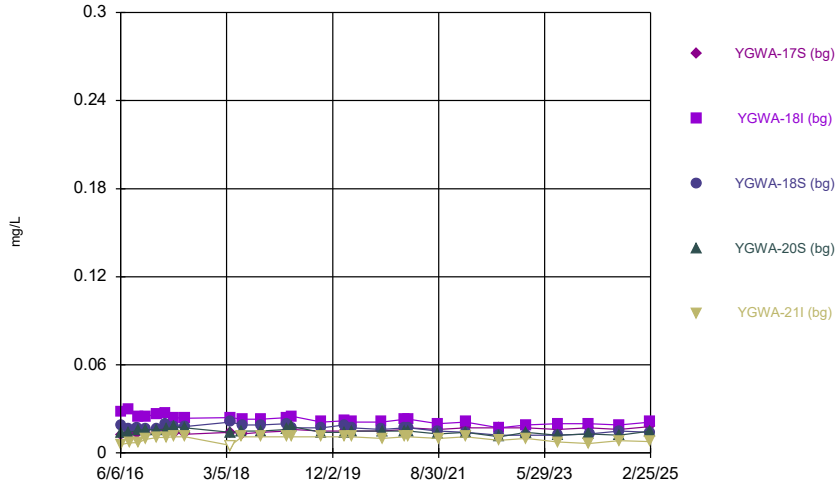
Time Series



Constituent: Barium Analysis Run 5/21/2025 6:38 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

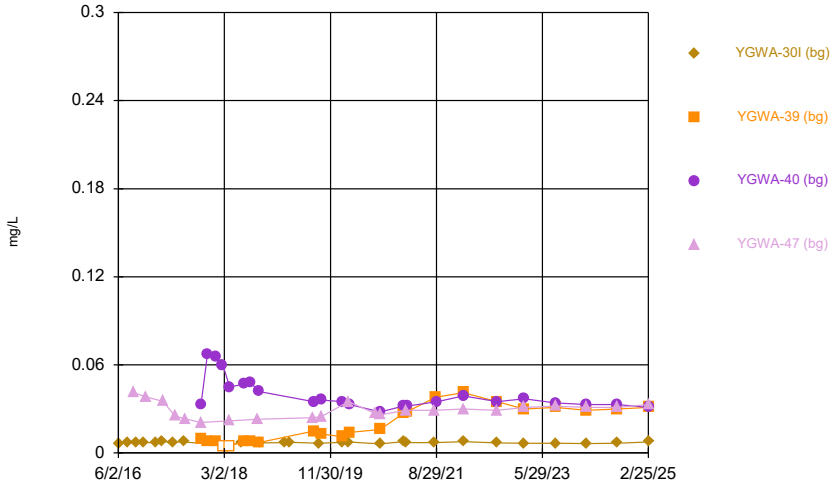
Time Series



Constituent: Barium Analysis Run 5/21/2025 6:38 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

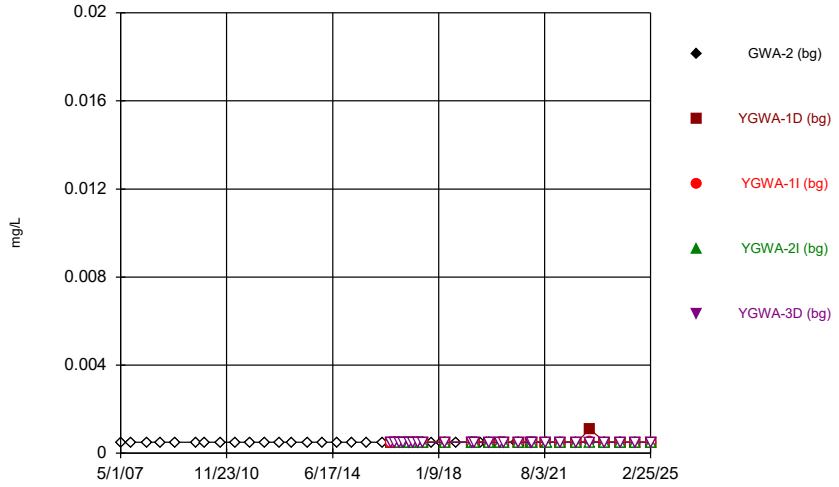
Time Series



Constituent: Barium Analysis Run 5/21/2025 6:38 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

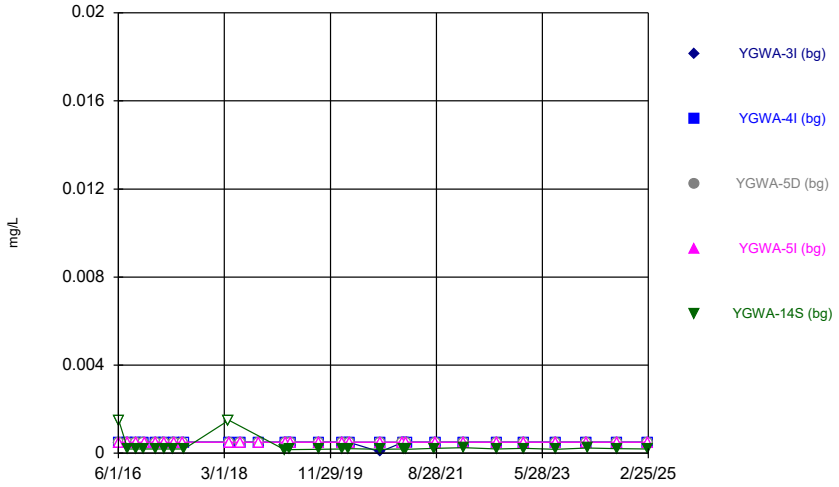
Time Series



Constituent: Beryllium Analysis Run 5/21/2025 6:38 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

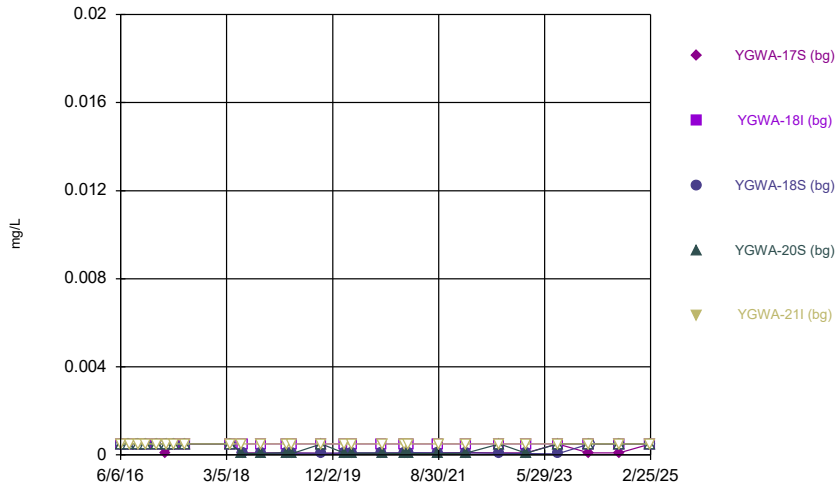
Time Series



Constituent: Beryllium Analysis Run 5/21/2025 6:38 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

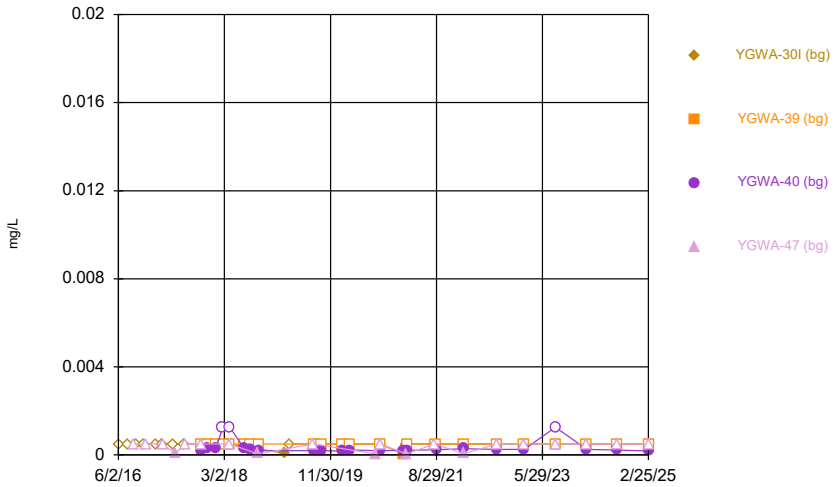
Time Series



Constituent: Beryllium Analysis Run 5/21/2025 6:38 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

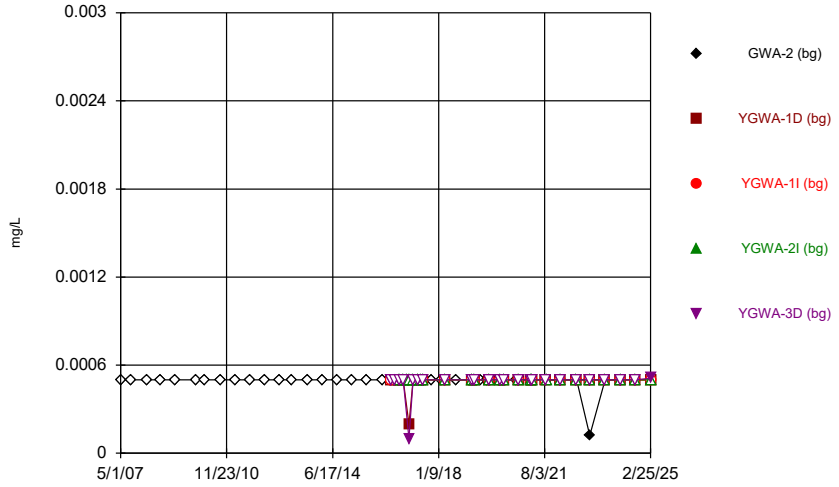
Time Series



Constituent: Beryllium Analysis Run 5/21/2025 6:38 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

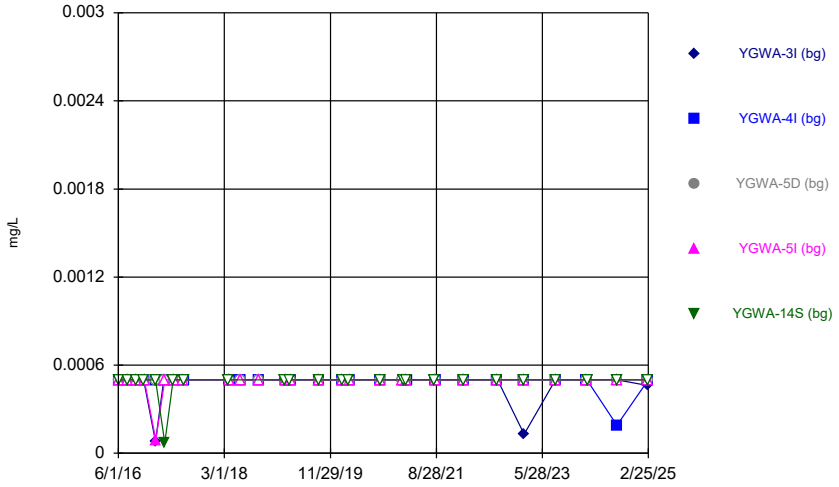
Time Series



Constituent: Cadmium Analysis Run 5/21/2025 6:38 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

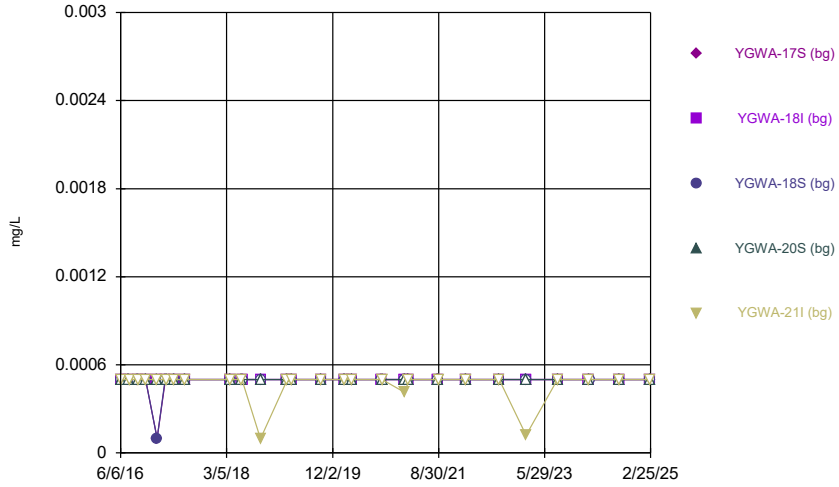
Time Series



Constituent: Cadmium Analysis Run 5/21/2025 6:38 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

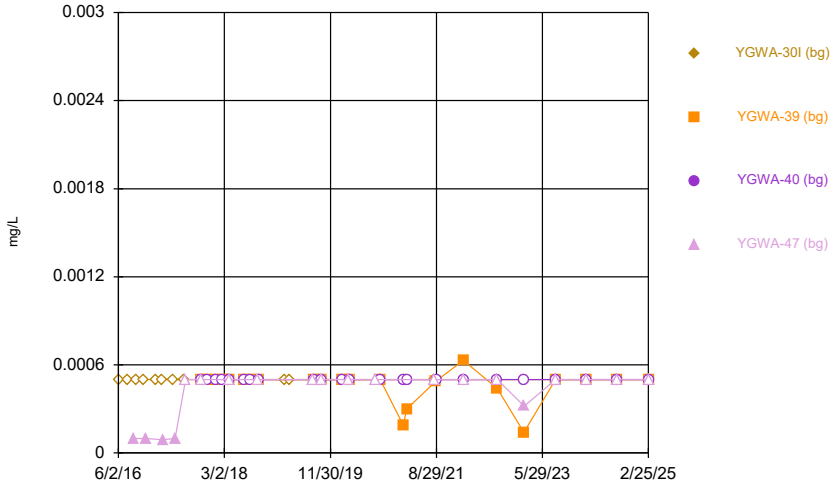
Time Series



Constituent: Cadmium Analysis Run 5/21/2025 6:38 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

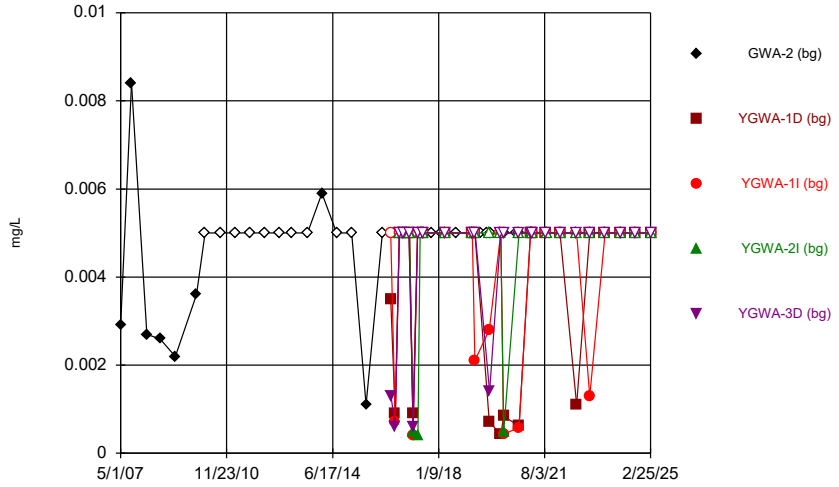
Time Series



Constituent: Cadmium Analysis Run 5/21/2025 6:38 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

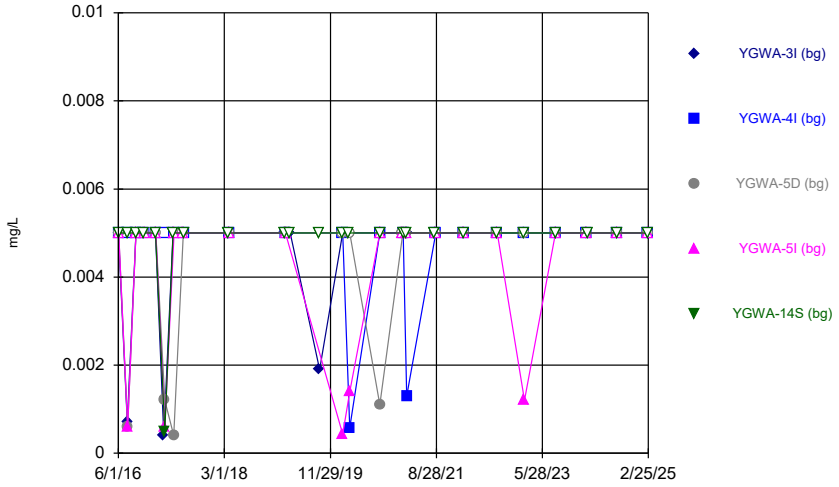
Time Series



Constituent: Chromium Analysis Run 5/21/2025 6:38 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

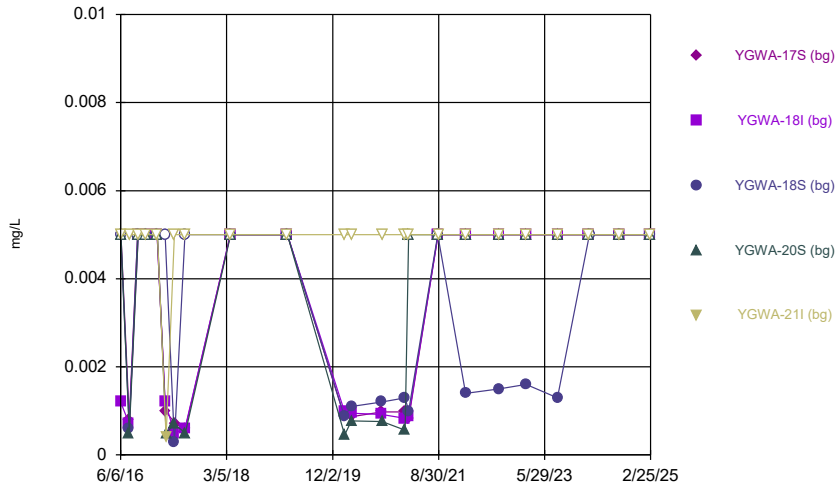
Time Series



Constituent: Chromium Analysis Run 5/21/2025 6:38 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

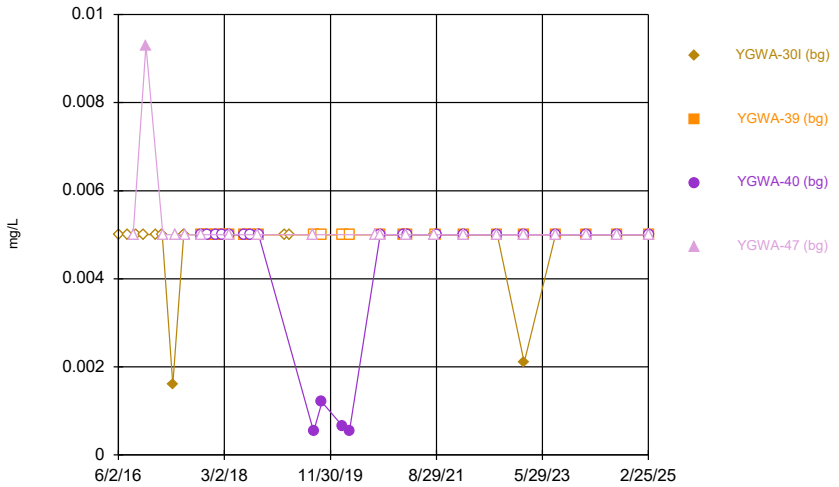
Time Series



Constituent: Chromium Analysis Run 5/21/2025 6:38 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

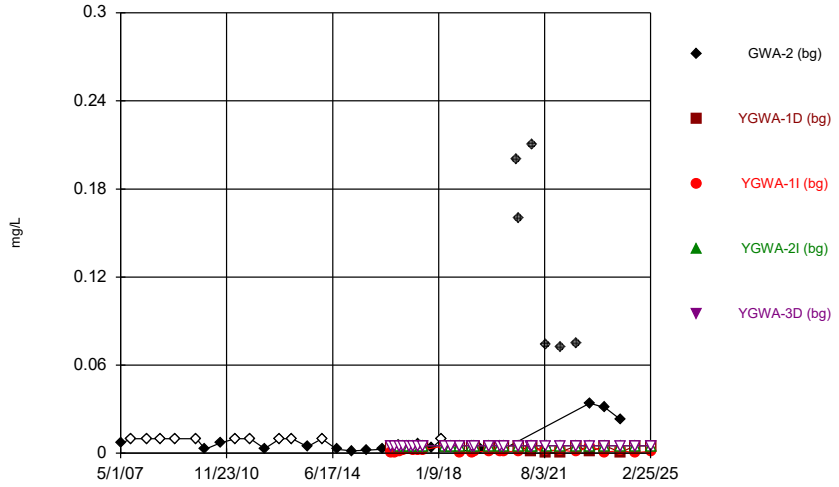
Time Series



Constituent: Chromium Analysis Run 5/21/2025 6:38 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

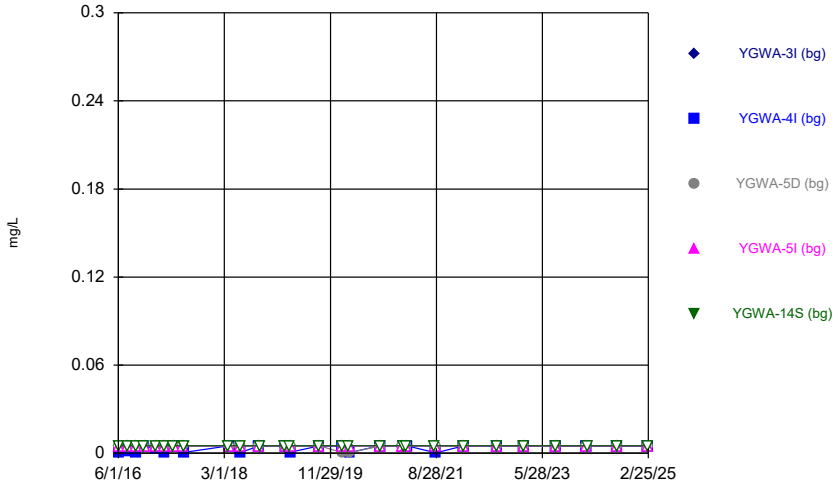
Time Series



Constituent: Cobalt Analysis Run 5/21/2025 6:39 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

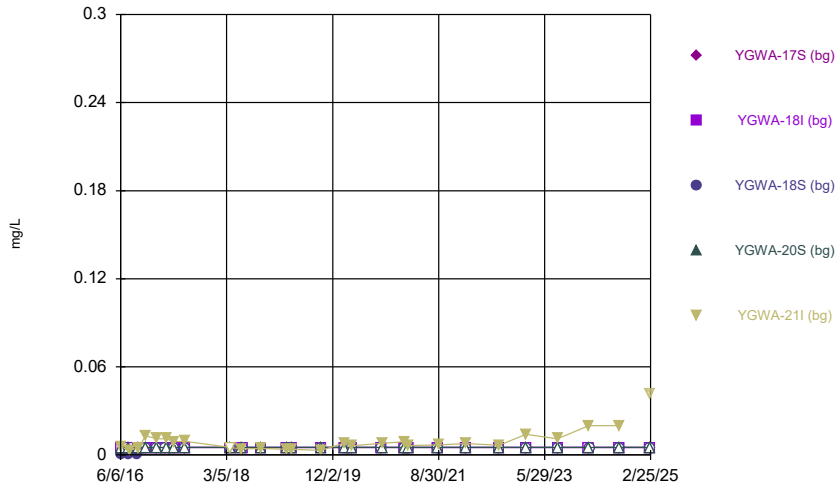
Time Series



Constituent: Cobalt Analysis Run 5/21/2025 6:39 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

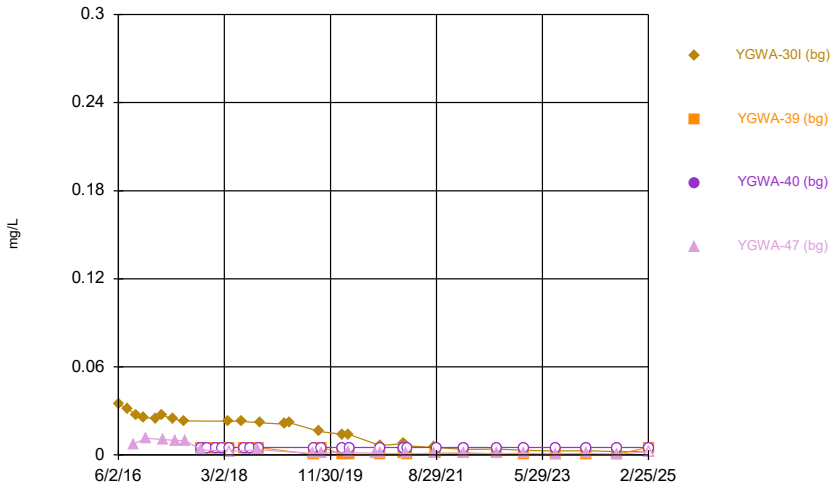
Time Series



Constituent: Cobalt Analysis Run 5/21/2025 6:39 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

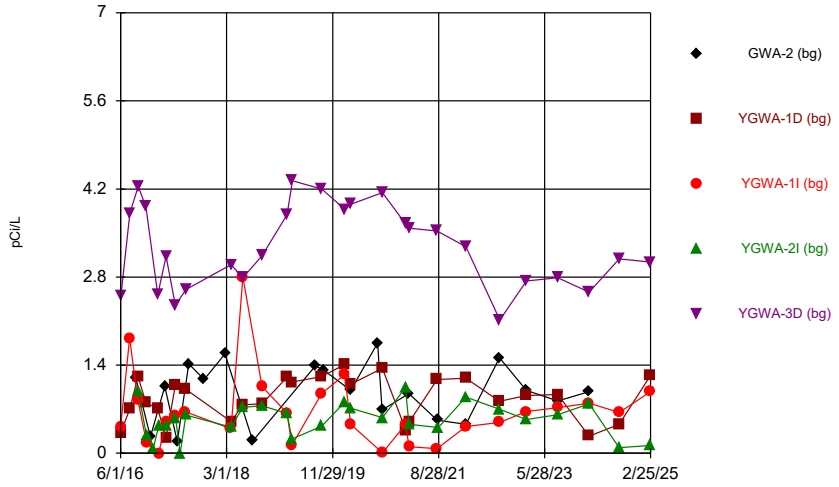
Time Series



Constituent: Cobalt Analysis Run 5/21/2025 6:39 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

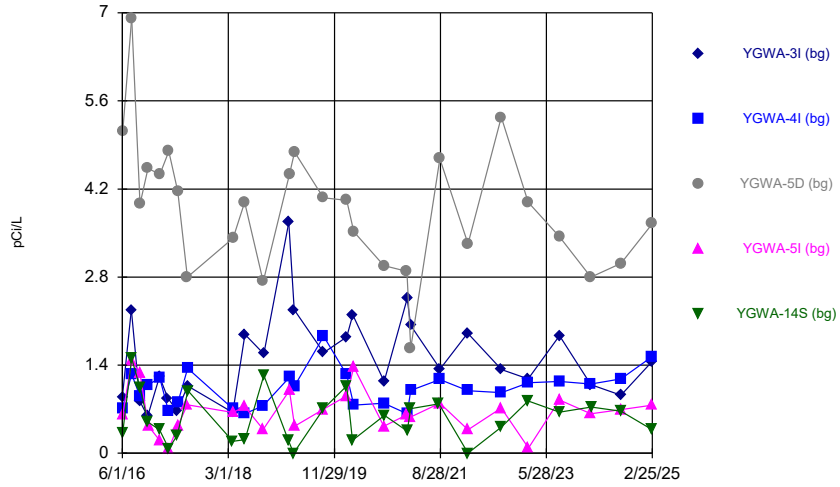
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 5/21/2025 6:39 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

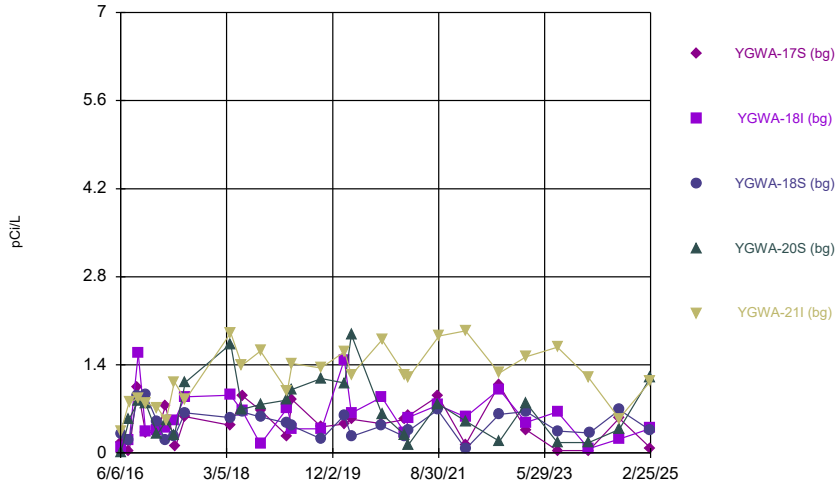
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 5/21/2025 6:39 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

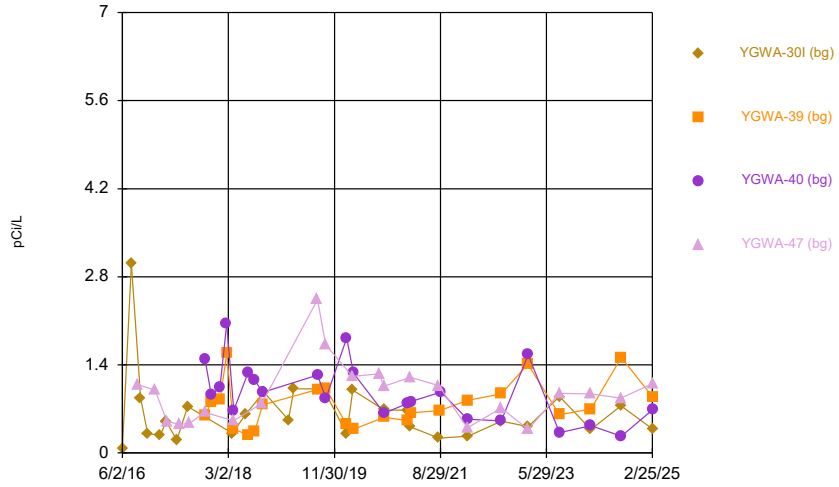
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 5/21/2025 6:39 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

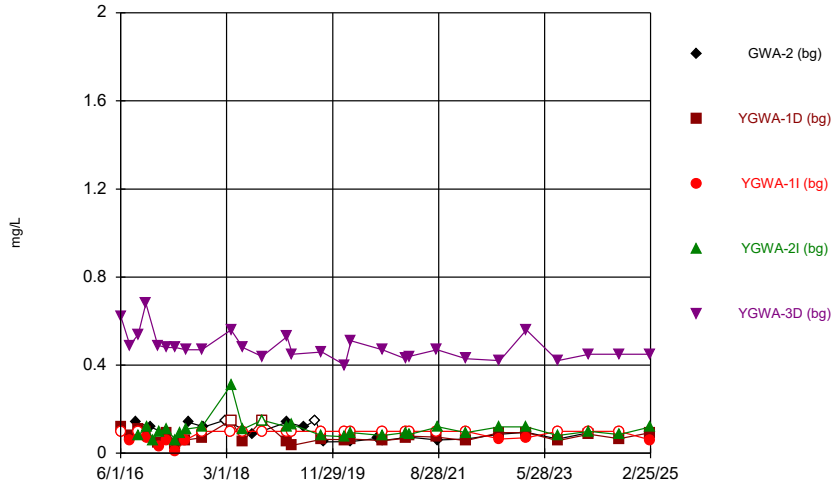
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 5/21/2025 6:39 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

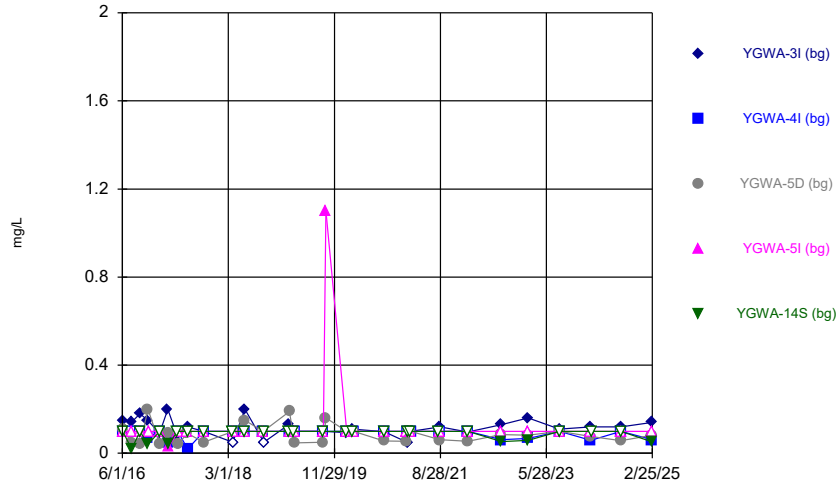
Time Series



Constituent: Fluoride Analysis Run 5/21/2025 6:39 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

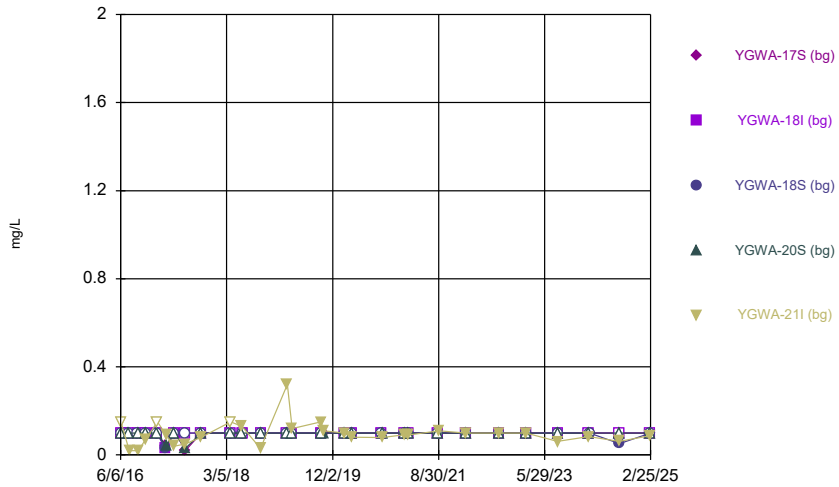
Time Series



Constituent: Fluoride Analysis Run 5/21/2025 6:39 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

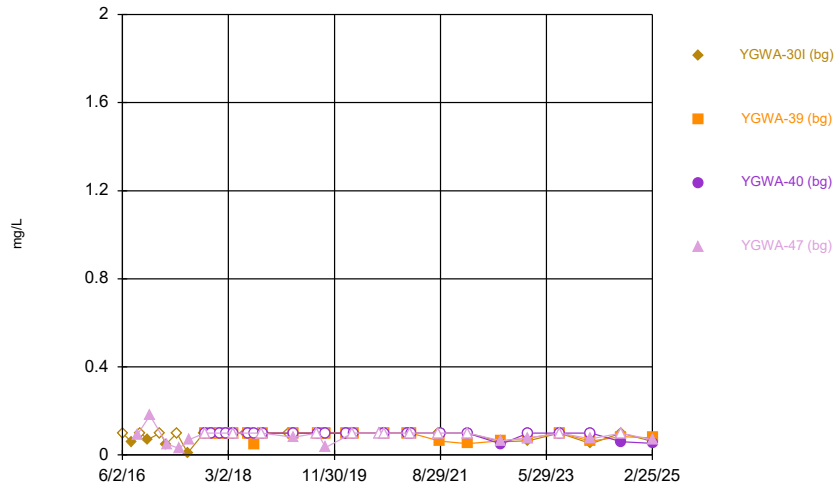
Time Series



Constituent: Fluoride Analysis Run 5/21/2025 6:39 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

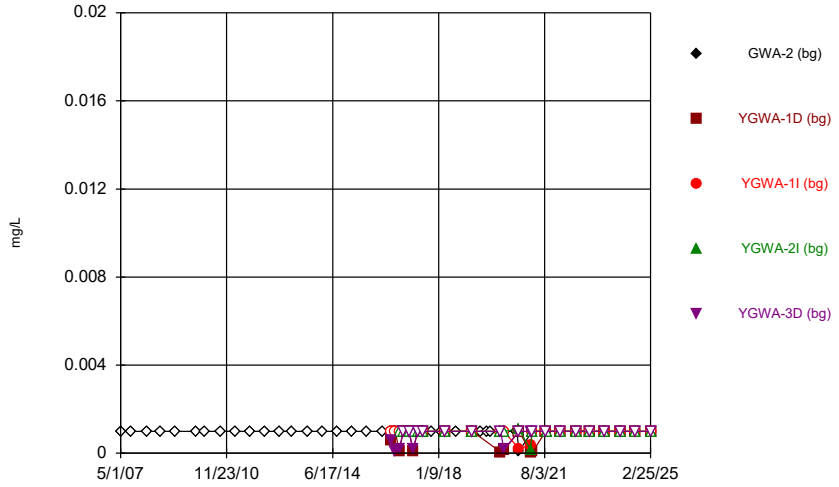
Time Series



Constituent: Fluoride Analysis Run 5/21/2025 6:39 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

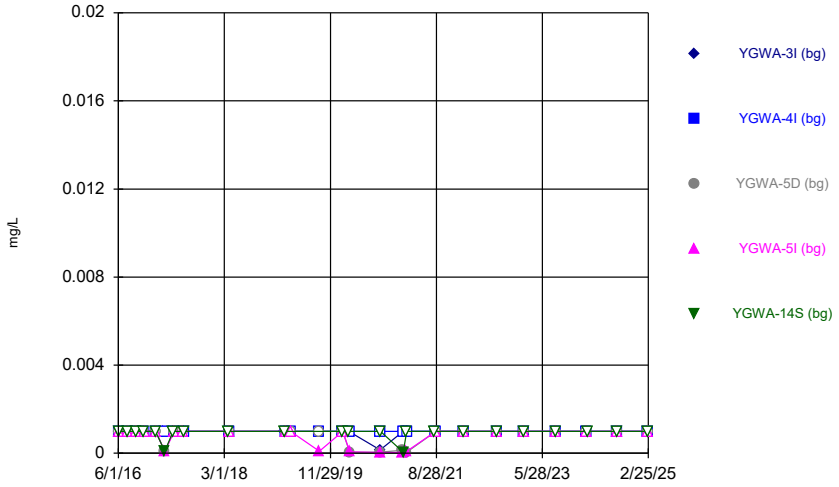
Time Series



Constituent: Lead Analysis Run 5/21/2025 6:39 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

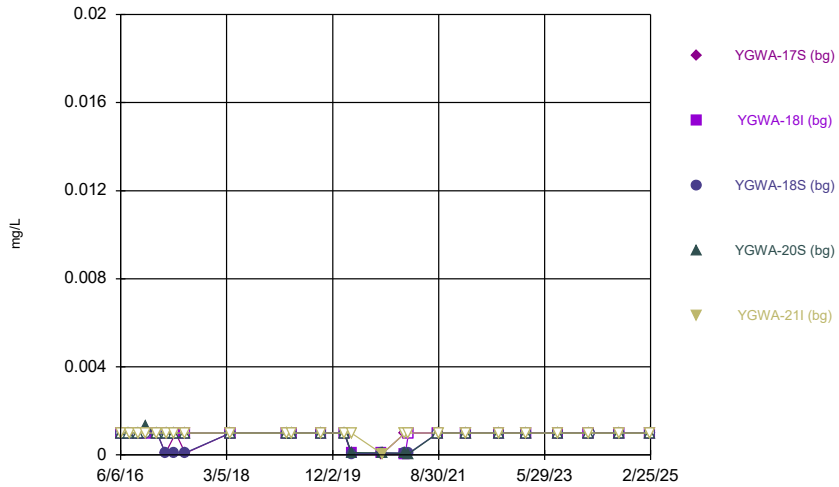
Time Series



Constituent: Lead Analysis Run 5/21/2025 6:39 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

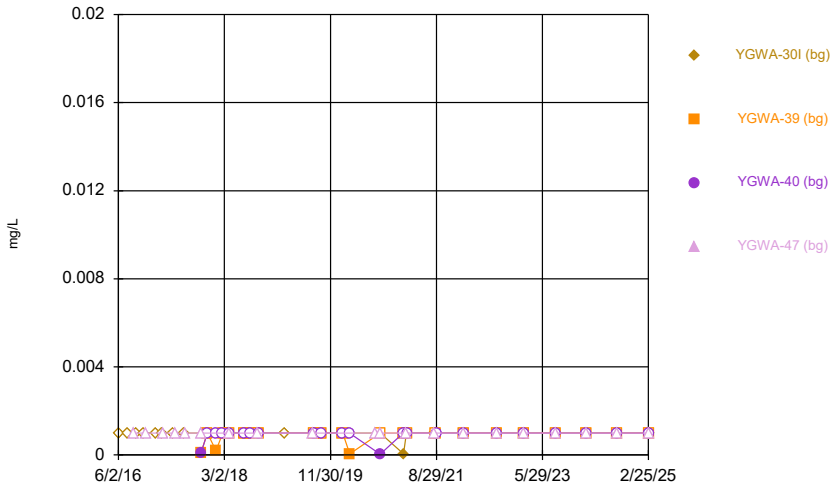
Time Series



Constituent: Lead Analysis Run 5/21/2025 6:39 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

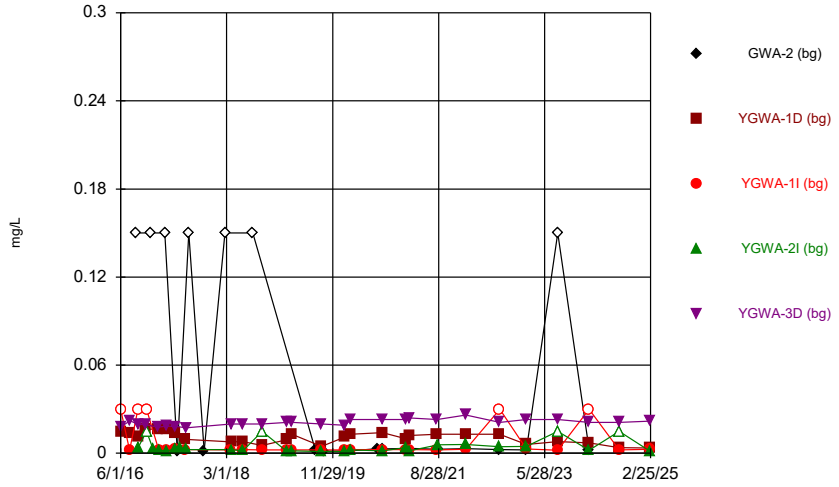
Time Series



Constituent: Lead Analysis Run 5/21/2025 6:39 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

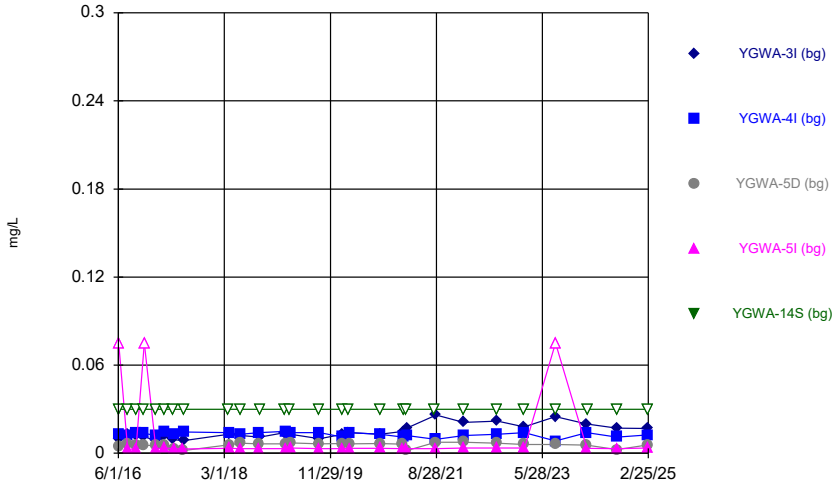
Time Series



Constituent: Lithium Analysis Run 5/21/2025 6:39 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

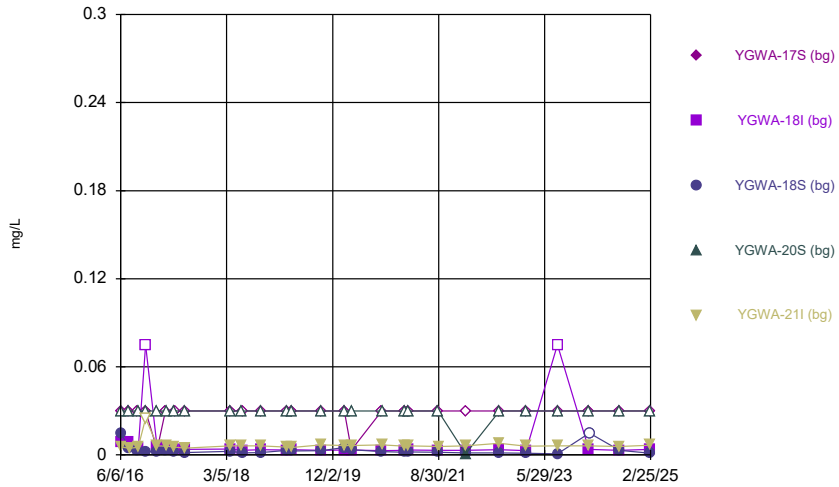
Time Series



Constituent: Lithium Analysis Run 5/21/2025 6:39 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

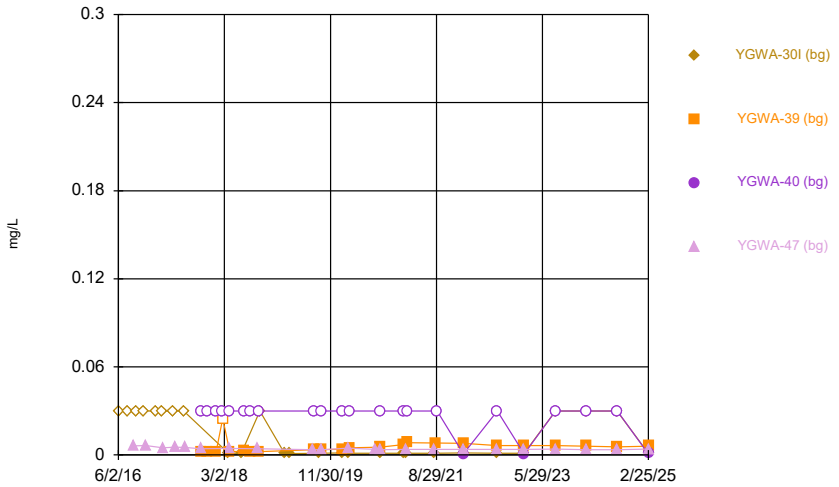
Time Series



Constituent: Lithium Analysis Run 5/21/2025 6:39 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

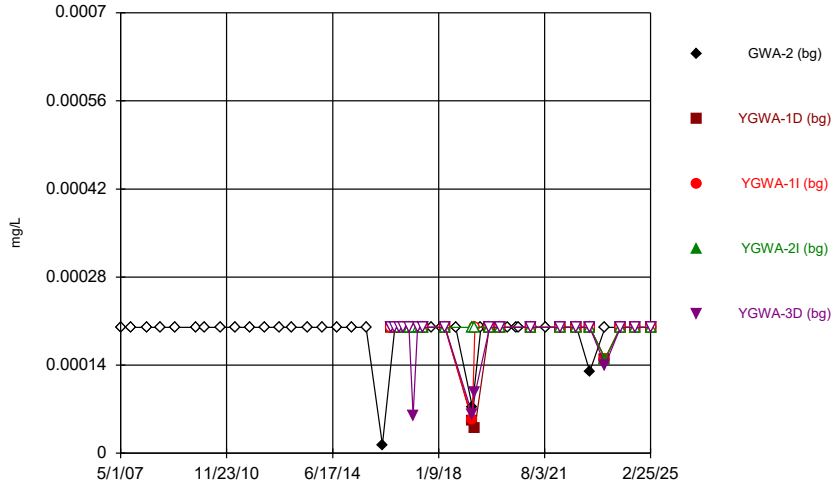
Time Series



Constituent: Lithium Analysis Run 5/21/2025 6:39 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

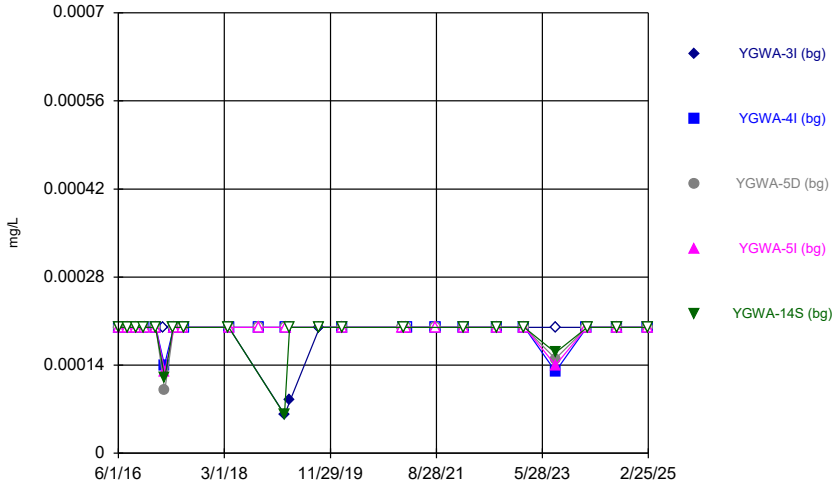
Time Series



Constituent: Mercury Analysis Run 5/21/2025 6:39 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

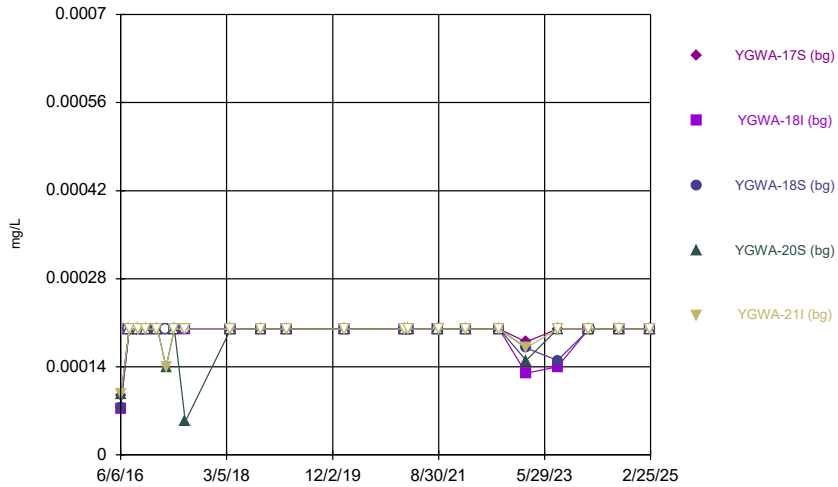
Time Series



Constituent: Mercury Analysis Run 5/21/2025 6:39 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

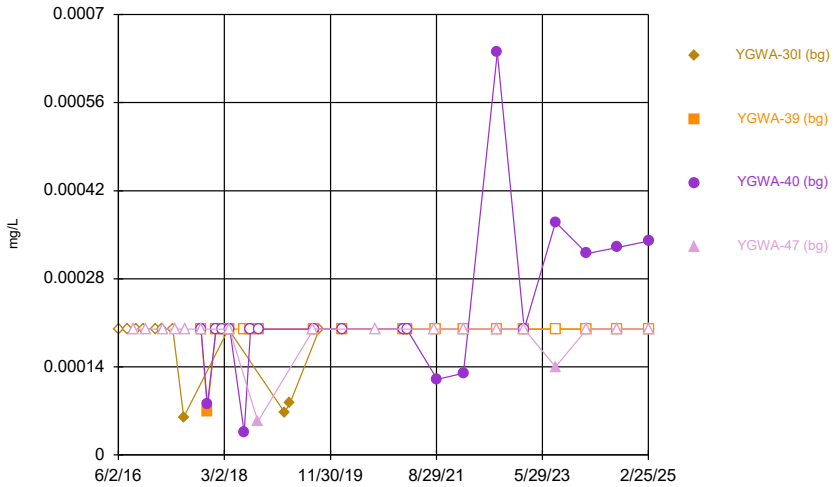
Time Series



Constituent: Mercury Analysis Run 5/21/2025 6:39 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

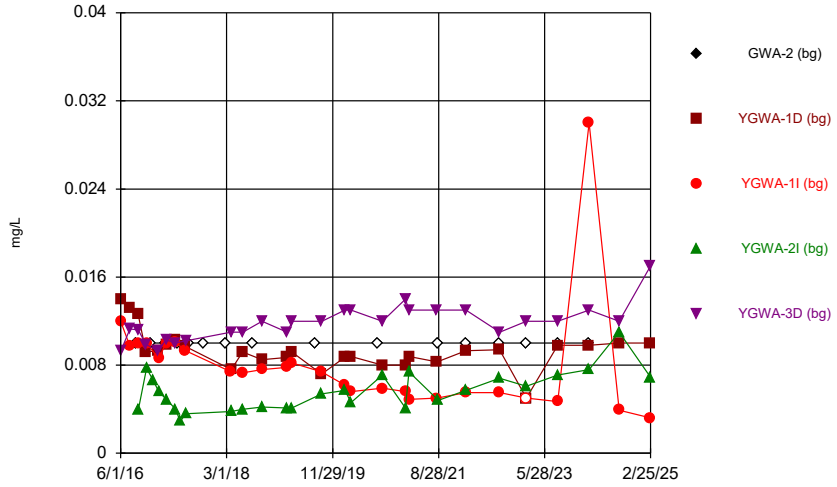
Time Series



Constituent: Mercury Analysis Run 5/21/2025 6:39 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

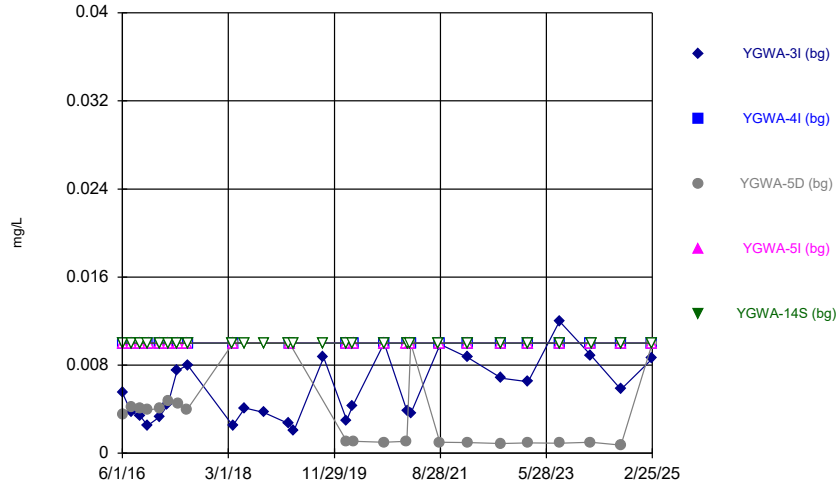
Time Series



Constituent: Molybdenum Analysis Run 5/21/2025 6:39 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

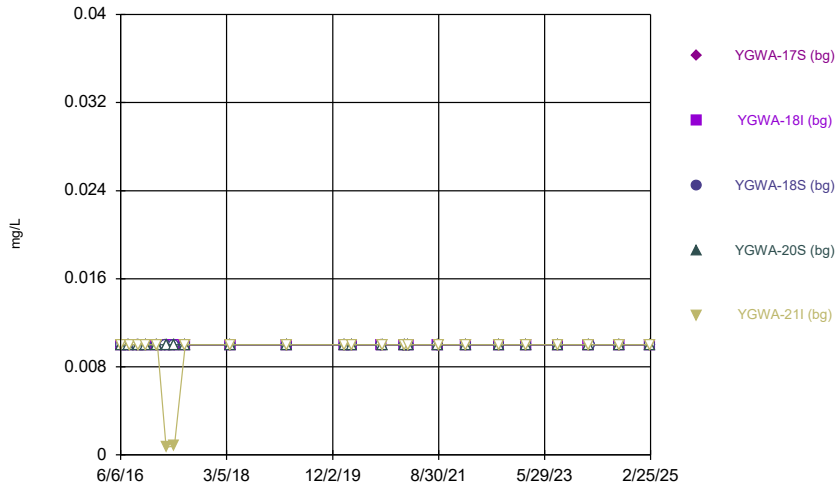
Time Series



Constituent: Molybdenum Analysis Run 5/21/2025 6:39 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

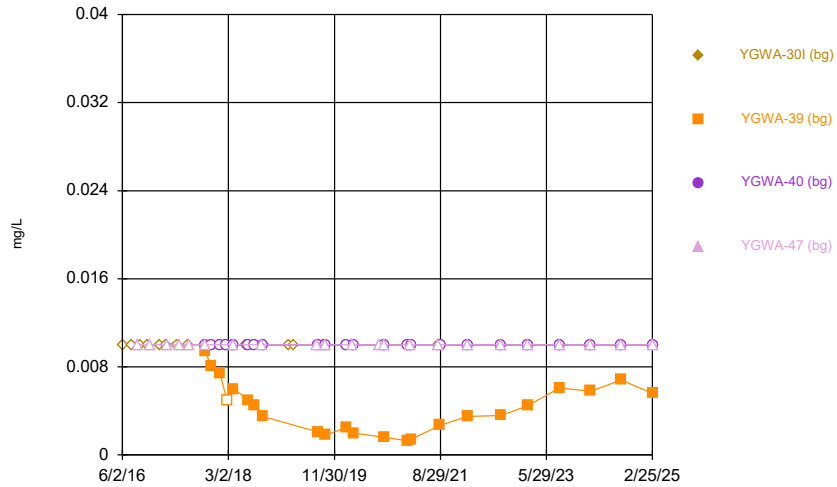
Time Series



Constituent: Molybdenum Analysis Run 5/21/2025 6:39 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

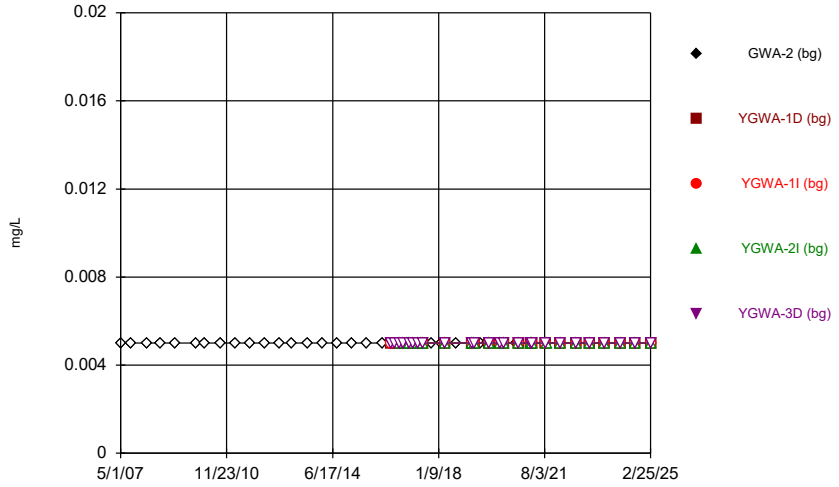
Time Series



Constituent: Molybdenum Analysis Run 5/21/2025 6:39 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

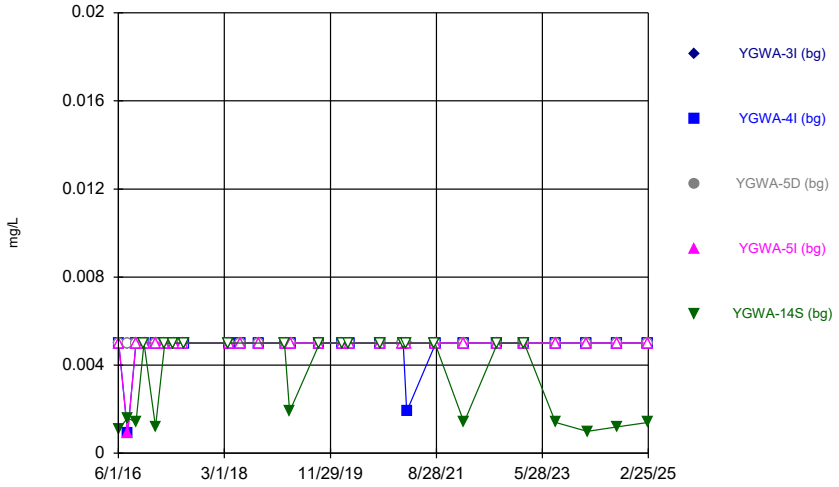
Time Series



Constituent: Selenium Analysis Run 5/21/2025 6:39 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

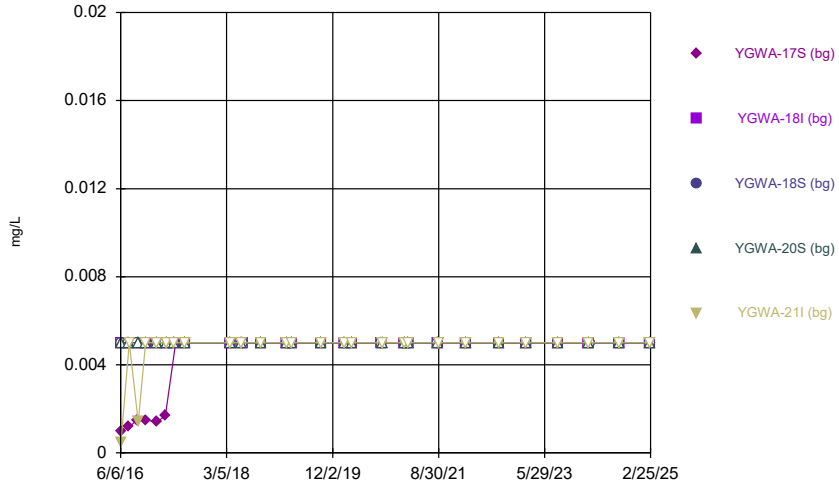
Time Series



Constituent: Selenium Analysis Run 5/21/2025 6:39 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

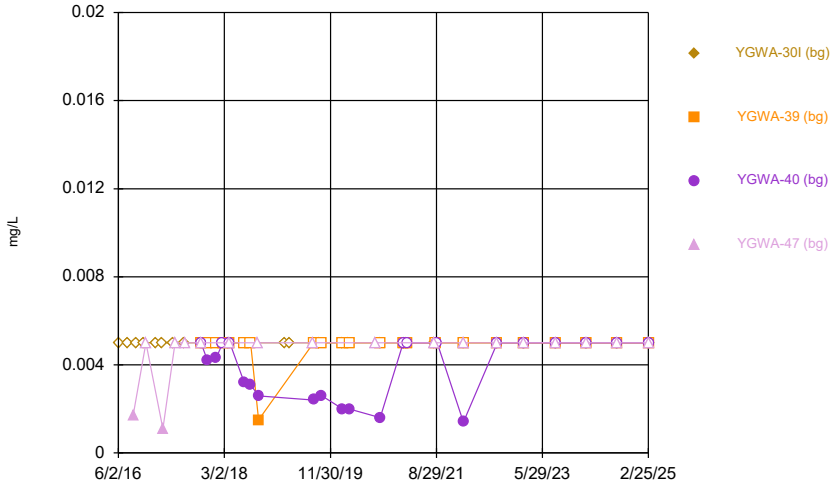
Time Series



Constituent: Selenium Analysis Run 5/21/2025 6:39 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

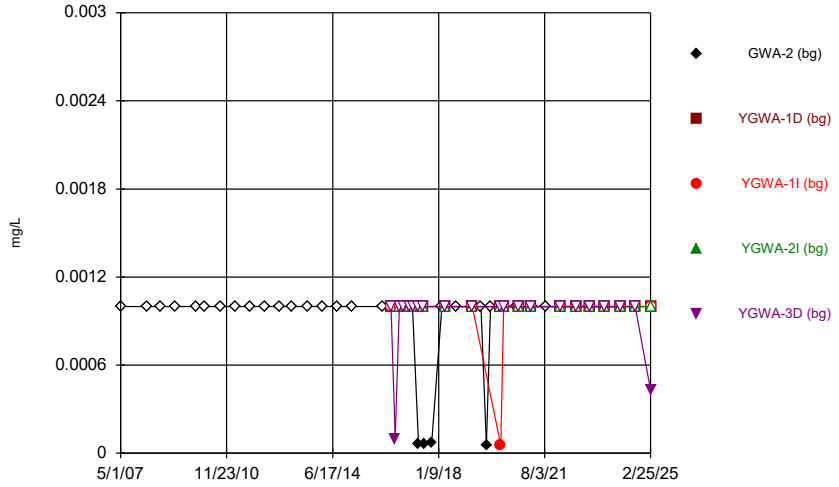
Time Series



Constituent: Selenium Analysis Run 5/21/2025 6:39 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

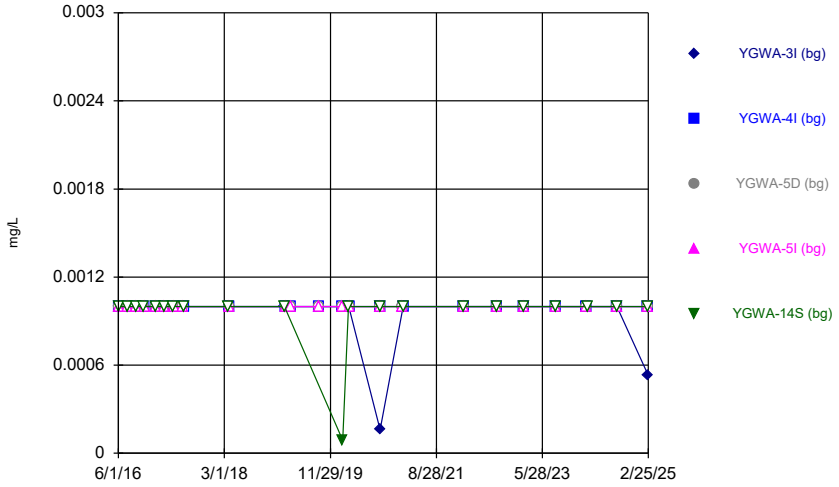
Time Series



Constituent: Thallium Analysis Run 5/21/2025 6:39 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

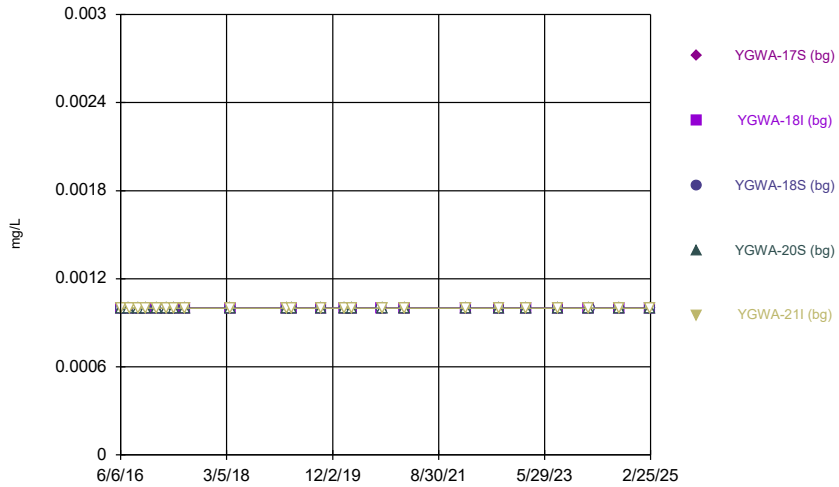
Time Series



Constituent: Thallium Analysis Run 5/21/2025 6:39 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

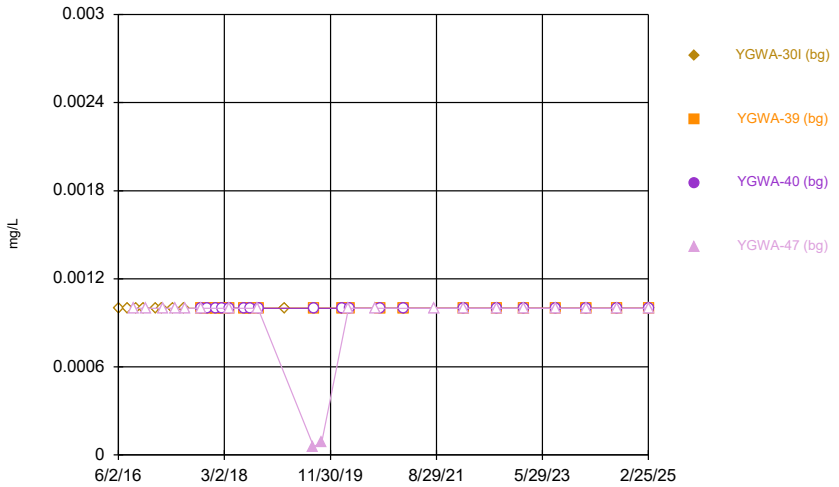
Time Series



Constituent: Thallium Analysis Run 5/21/2025 6:39 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series

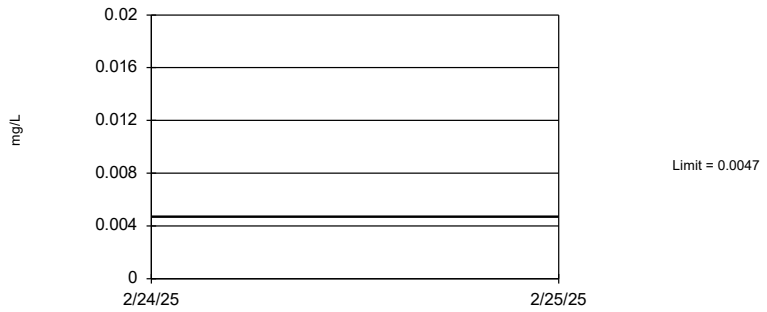


Constituent: Thallium Analysis Run 5/21/2025 6:39 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



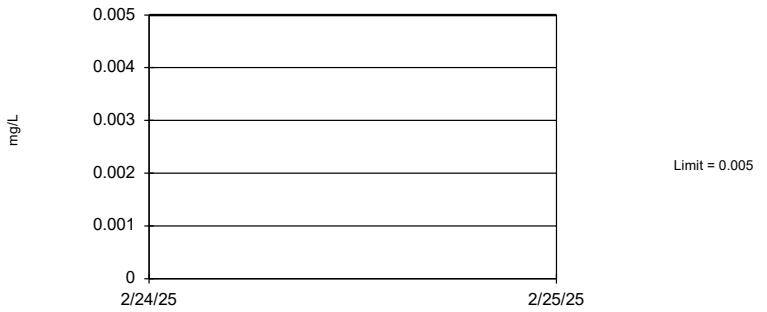
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 467 background values. 87.58% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Antimony Analysis Run 5/21/2025 6:39 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



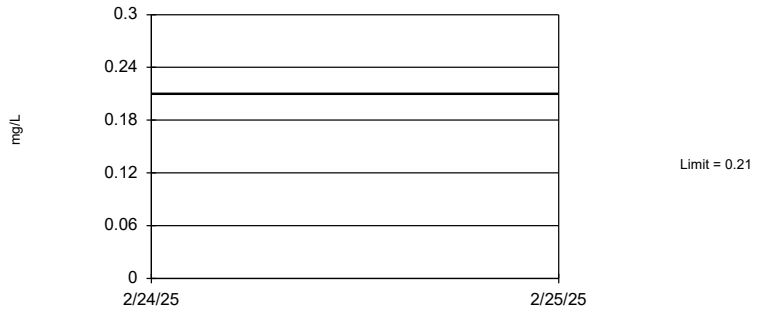
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 515 background values. 74.56% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Arsenic Analysis Run 5/21/2025 6:39 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



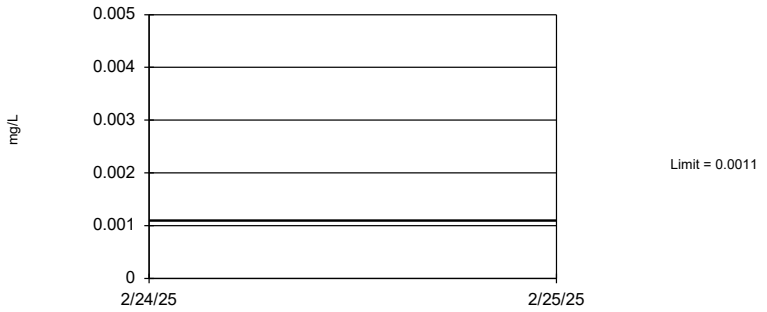
Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 515 background values. 2.136% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Barium Analysis Run 5/21/2025 6:39 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



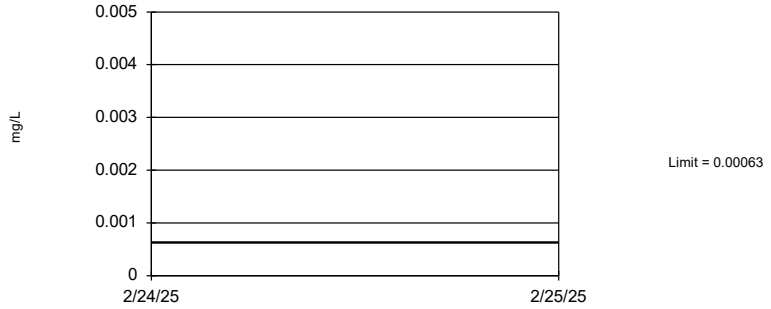
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 499 background values. 80.36% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Beryllium Analysis Run 5/21/2025 6:40 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

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.

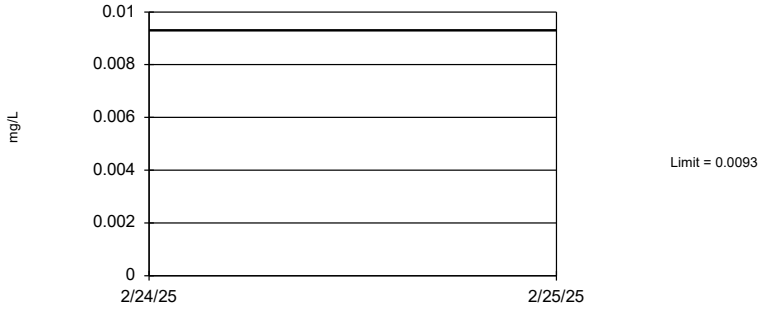
Constituent: Cadmium Analysis Run 5/21/2025 6:40 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AP-2

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 5/21/2025 6:40 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AP-2

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 5/21/2025 6:40 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AP-2

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.

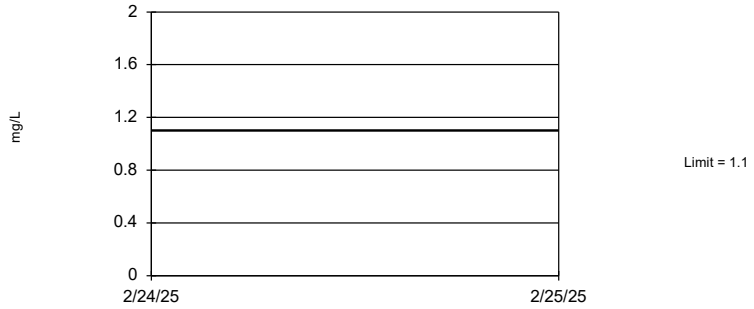
Constituent: Combined Radium 226 + 228 Analysis Run 5/21/2025 6:40 PM View: Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



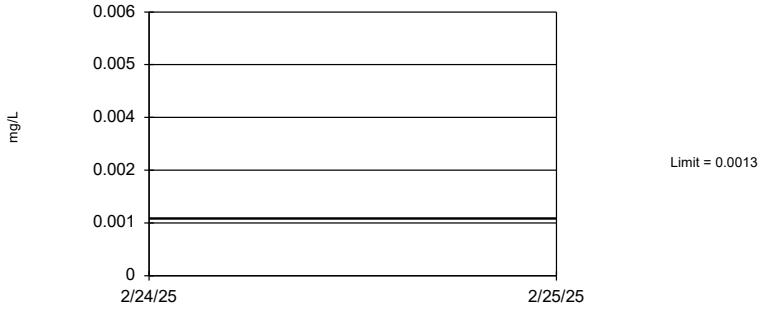
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 518 background values. 54.25% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Fluoride Analysis Run 5/21/2025 6:40 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

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 5/21/2025 6:40 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



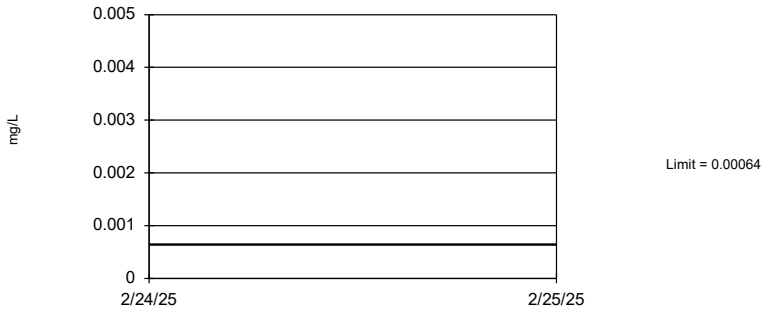
Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 493 background values. 27.18% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Lithium Analysis Run 5/21/2025 6:40 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

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 5/21/2025 6:40 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

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 5/21/2025 6:40 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

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 5/21/2025 6:40 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

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 5/21/2025 6:40 PM View: Upper Tolerance Limits
Plant Yates Client: Southern Company Data: Yates AP-2

FIGURE G.

YATES ASH POND 2 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.

Appendix IV Confidence Intervals - All Results (No Significant)

Plant Yates Client: Southern Company Data: Yates AP-2 Printed 5/21/2025, 6:49 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	YGWC-26I	0.003	0.001	0.006	No	23	0.0027	0.0007947	86.96	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-26S	0.003	0.0017	0.006	No	23	0.002883	0.0003892	91.3	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27I	0.003	0.0014	0.006	No	23	0.002814	0.0006359	91.3	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27S	0.003	0.0003	0.006	No	23	0.002883	0.000563	95.65	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-28I	0.003	0.0023	0.006	No	23	0.00297	0.000146	95.65	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-29IB	0.003	0.0013	0.006	No	23	0.002926	0.0003545	95.65	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-26I	0.005	0.0028	0.01	No	27	0.004822	0.0006429	92.59	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-26S	0.005	0.0032	0.01	No	27	0.00483	0.0006293	92.59	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-27I	0.005	0.0009	0.01	No	27	0.003539	0.00204	62.96	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-27S	0.005	0.0019	0.01	No	27	0.004719	0.001033	92.59	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-28I	0.005	0.0021	0.01	No	27	0.004893	0.0005581	96.3	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-28S	0.005	0.00075	0.01	No	27	0.003693	0.001993	66.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-29IB	0.005	0.0033	0.01	No	27	0.004937	0.0003272	96.3	None	No	0.01	NP (NDs)
Barium (mg/L)	YGWC-26I	0.06482	0.06119	2	No	27	0.063	0.003812	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-26S	0.02813	0.02608	2	No	27	0.02711	0.002148	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-27I	0.073	0.06585	2	No	27	0.06957	0.007597	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	YGWC-27S	0.09809	0.07879	2	No	27	0.08616	0.02259	0	None	x^2	0.01	Param.
Barium (mg/L)	YGWC-28I	0.08667	0.07726	2	No	27	0.08197	0.009866	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-28S	0.2188	0.2002	2	No	27	0.2048	0.03316	0	None	x^4	0.01	Param.
Barium (mg/L)	YGWC-29IB	0.0782	0.059	2	No	27	0.07462	0.0297	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-26S	0.0002	0.0001	0.004	No	25	0.0002241	0.0001638	24	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-27I	0.00023	0.00012	0.004	No	25	0.0002268	0.0001469	20	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-27S	0.0005	0.00011	0.004	No	25	0.000467	0.0001143	92	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-28I	0.00043	0.00013	0.005	No	25	0.0002672	0.0001741	20	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-28S	0.0005	0.00048	0.005	No	25	0.0004992	0.000004	96	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-29IB	0.00027	0.00016	0.005	No	25	0.0003232	0.0003546	12	None	No	0.01	NP (normality)
Chromium (mg/L)	YGWC-26I	0.005	0.0008	0.1	No	25	0.003598	0.00208	64	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-26S	0.005	0.0012	0.1	No	25	0.00306	0.001792	36	None	No	0.01	NP (normality)
Chromium (mg/L)	YGWC-27I	0.012	0.005	0.1	No	25	0.00528	0.0014	96	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-27S	0.005	0.0041	0.1	No	25	0.004738	0.002612	76	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28I	0.005	0.0005	0.1	No	25	0.004456	0.001502	88	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28S	0.005	0.0034	0.1	No	25	0.0044	0.001493	84	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-29IB	0.005	0.0005	0.1	No	25	0.00482	0.0009	96	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-26S	0.002389	0.001768	0.035	No	27	0.002079	0.0006511	7.407	None	No	0.01	Param.
Cobalt (mg/L)	YGWC-27I	0.01373	0.004382	0.035	No	27	0.01598	0.0229	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	YGWC-27S	0.0025	0.0017	0.035	No	27	0.002241	0.0006891	3.704	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-28I	0.005	0.00042	0.035	No	27	0.00483	0.0008814	96.3	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-28S	0.0011	0.00085	0.035	No	27	0.001121	0.0005183	11.11	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-29IB	0.0053	0.0027	0.035	No	27	0.00428	0.001913	62.96	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	YGWC-26I	0.9861	0.4961	6.92	No	26	0.7411	0.5027	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-26S	0.8017	0.5338	6.92	No	27	0.6677	0.2808	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27I	3.685	2.653	6.92	No	27	3.169	1.082	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27S	0.9318	0.5922	6.92	No	27	0.762	0.356	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-28I	0.7689	0.4642	6.92	No	27	0.6166	0.3194	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-28S	0.9196	0.5691	6.92	No	27	0.7443	0.3674	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-29IB	1.084	0.7004	6.92	No	27	0.8921	0.4019	0	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-26I	0.08293	0.06131	4	No	28	0.08196	0.02163	25	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	YGWC-26S	0.11	0.076	4	No	28	0.1164	0.08829	53.57	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-27I	0.14	0.07	4	No	28	0.1362	0.0998	25	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-27S	0.1775	0.1014	4	No	28	0.1485	0.09475	7.143	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	YGWC-28I	0.15	0.078	4	No	28	0.1236	0.07268	10.71	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-28S	0.2315	0.1589	4	No	28	0.201	0.08584	3.571	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	YGWC-29IB	0.091	0.059	4	No	28	0.08671	0.03562	10.71	None	No	0.01	NP (normality)
Lead (mg/L)	YGWC-26I	0.001	0.000059	0.015	No	23	0.0009178	0.0002723	91.3	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-26S	0.001	0.0001	0.015	No	23	0.0007587	0.0004154	73.91	None	No	0.01	NP (NDs)

Appendix IV Confidence Intervals - All Results (No Significant)

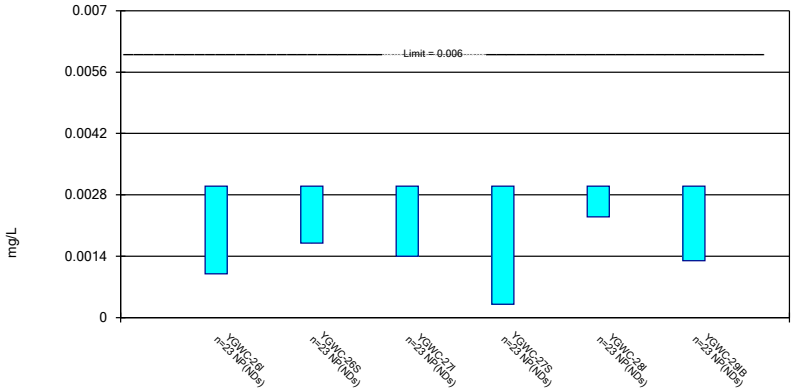
Plant Yates Client: Southern Company Data: Yates AP-2 Printed 5/21/2025, 6:49 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	YGWC-27S	0.001	0.00096	0.015	No	23	0.000852	0.0003283	69.57	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-28S	0.001	0.00009	0.015	No	23	0.0007567	0.0004188	73.91	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-29IB	0.001	0.00016	0.015	No	23	0.0008835	0.0003078	86.96	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-26I	0.007402	0.006798	0.04	No	27	0.0071	0.0006325	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-27I	0.009326	0.007566	0.04	No	27	0.008547	0.001962	0	None	x^(1/3)	0.01	Param.
Lithium (mg/L)	YGWC-27S	0.03	0.0013	0.04	No	27	0.02786	0.007725	92.59	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-28I	0.006972	0.006508	0.04	No	27	0.00674	0.0004862	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-28S	0.03	0.0053	0.04	No	27	0.02909	0.004754	96.3	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-29IB	0.0066	0.0052	0.04	No	27	0.006621	0.002591	3.704	None	No	0.01	NP (normality)
Mercury (mg/L)	YGWC-26I	0.0002	0.000051	0.002	No	21	0.0001858	0.00004482	90.48	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-26S	0.0002	0.000066	0.002	No	21	0.0001864	0.00004295	90.48	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-27I	0.0002	0.00006	0.002	No	21	0.000179	0.00005276	85.71	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-27S	0.0002	0.00019	0.002	No	21	0.00018	0.00004989	80.95	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-28I	0.0002	0.000078	0.002	No	21	0.000187	0.00004148	90.48	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-28S	0.0002	0.000081	0.002	No	21	0.0001873	0.00004042	90.48	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-29IB	0.0002	0.000081	0.002	No	21	0.0001794	0.00005223	85.71	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-27I	0.01	0.0015	0.1	No	27	0.005078	0.004194	40.74	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-28I	0.01	0.0012	0.1	No	27	0.004507	0.004295	37.04	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-28S	0.01	0.00082	0.1	No	27	0.006911	0.004451	66.67	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-29IB	0.01	0.00099	0.1	No	27	0.009327	0.002426	92.59	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-26I	0.0042	0.0019	0.05	No	25	0.002992	0.001222	8	None	No	0.01	NP (normality)
Selenium (mg/L)	YGWC-26S	0.005	0.0014	0.05	No	25	0.004372	0.00148	84	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28I	0.005	0.0012	0.05	No	25	0.004848	0.00076	96	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28S	0.005	0.001	0.05	No	25	0.00484	0.0008	96	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-26S	0.002	0.000057	0.002	No	21	0.001815	0.0005847	90.48	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-27S	0.002	0.00011	0.002	No	21	0.001459	0.0008772	71.43	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-29IB	0.002	0.00021	0.002	No	21	0.001915	0.0003906	95.24	None	No	0.01	NP (NDs)

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

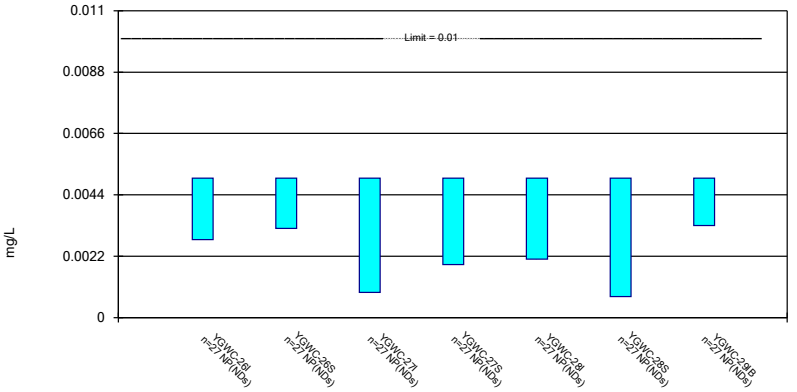


Constituent: Antimony Analysis Run 5/21/2025 6:48 PM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

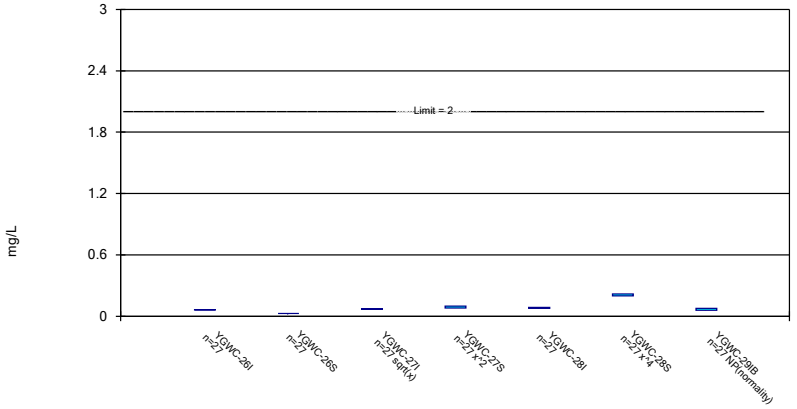


Constituent: Arsenic Analysis Run 5/21/2025 6:48 PM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 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.

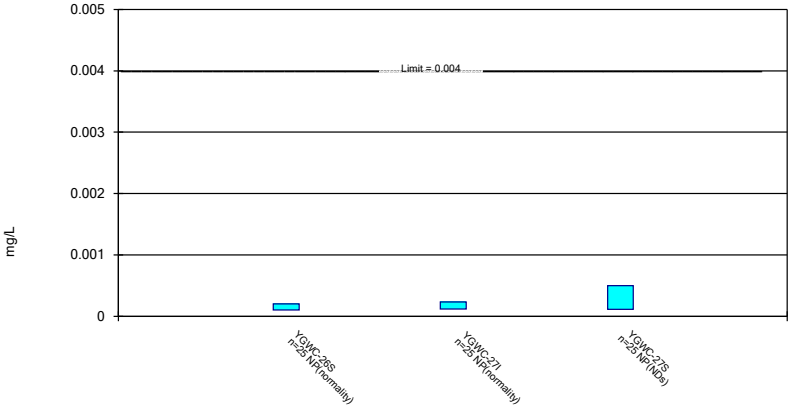


Constituent: Barium Analysis Run 5/21/2025 6:48 PM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

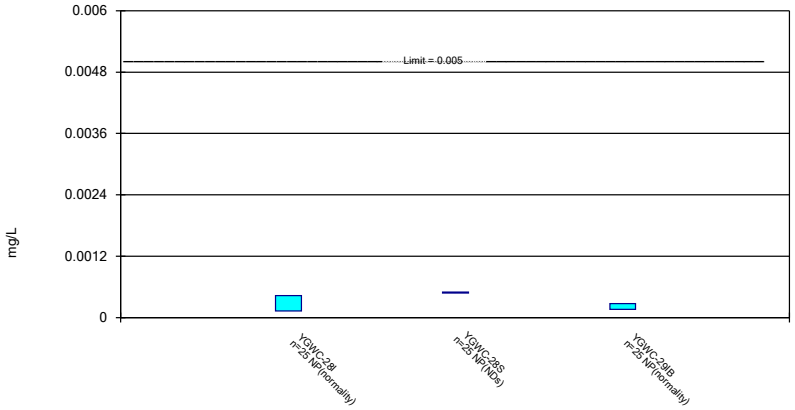


Constituent: Beryllium Analysis Run 5/21/2025 6:48 PM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

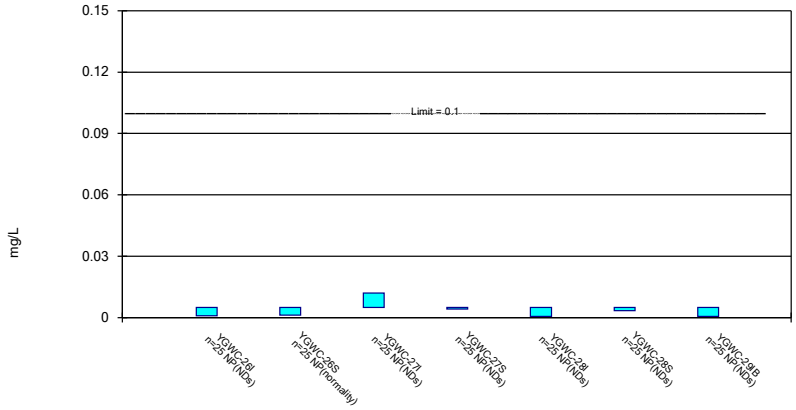


Constituent: Cadmium Analysis Run 5/21/2025 6:48 PM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

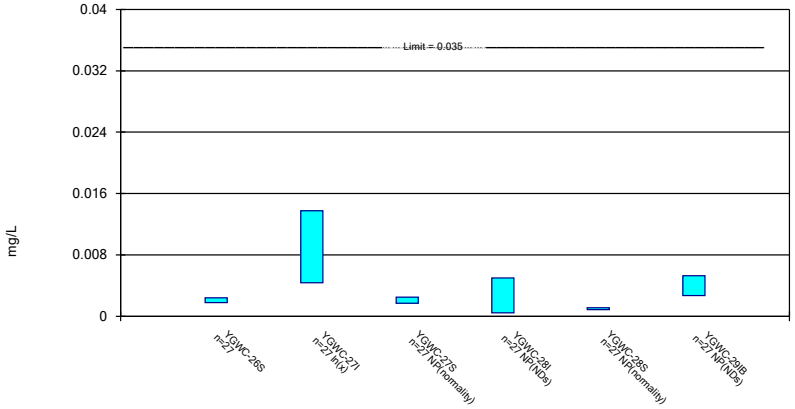


Constituent: Chromium Analysis Run 5/21/2025 6:48 PM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 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.

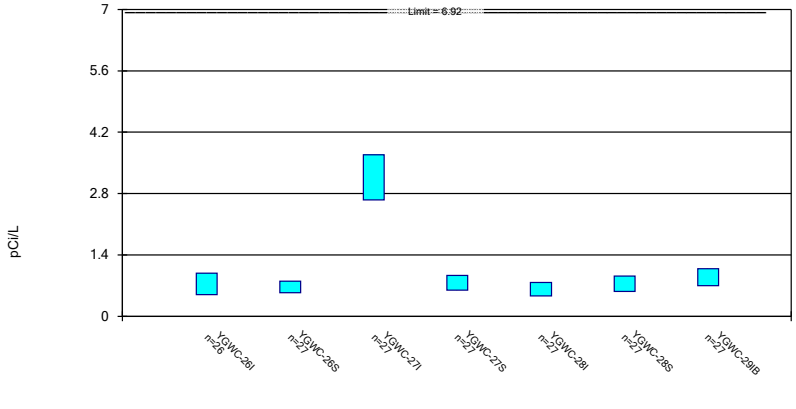


Constituent: Cobalt Analysis Run 5/21/2025 6:48 PM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 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.

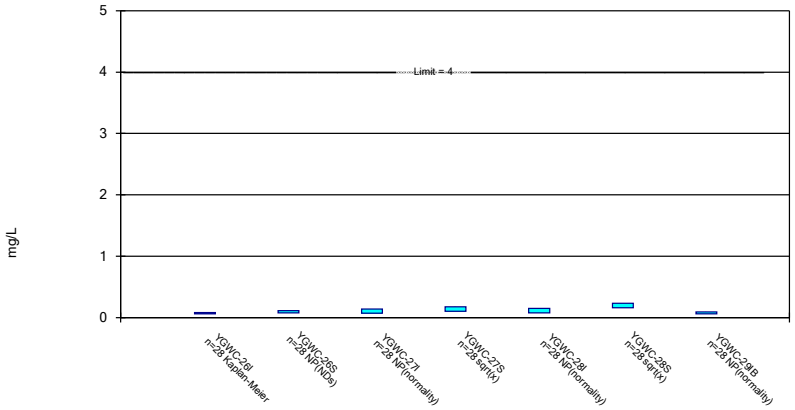


Constituent: Combined Radium 226 + 228 Analysis Run 5/21/2025 6:48 PM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 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.

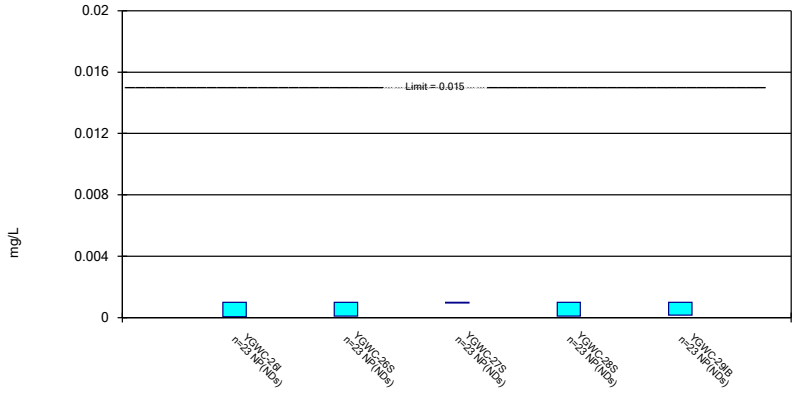


Constituent: Fluoride Analysis Run 5/21/2025 6:48 PM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

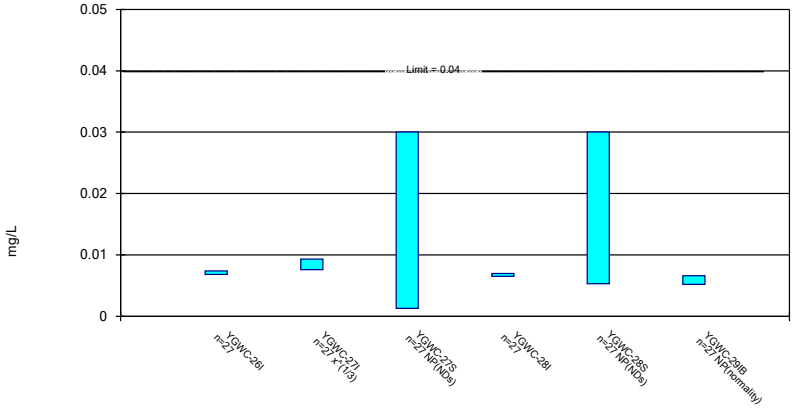


Constituent: Lead Analysis Run 5/21/2025 6:48 PM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 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.

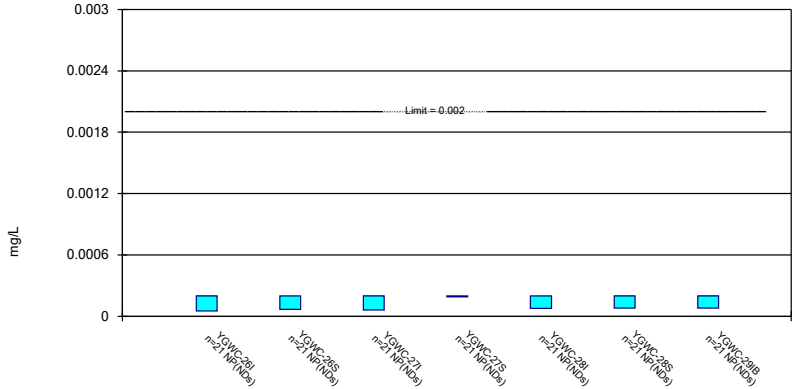


Constituent: Lithium Analysis Run 5/21/2025 6:48 PM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

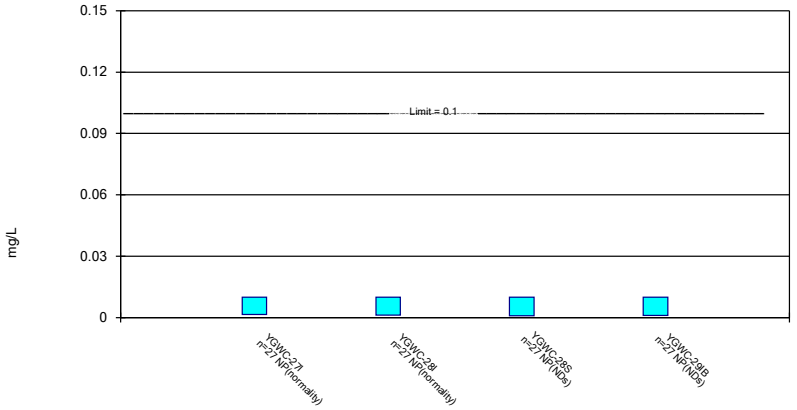


Constituent: Mercury Analysis Run 5/21/2025 6:48 PM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

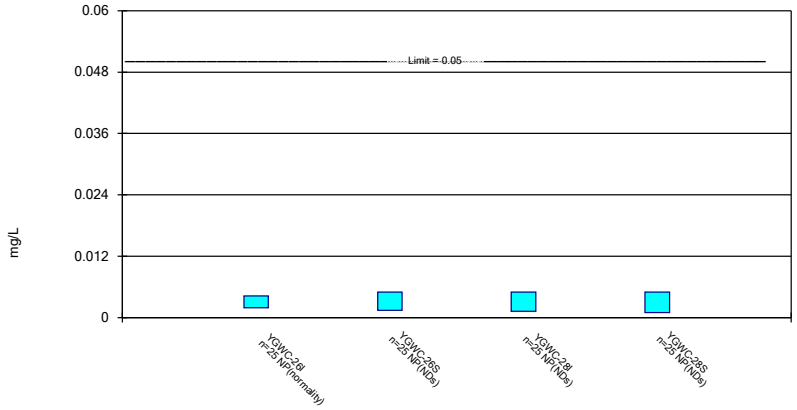


Constituent: Molybdenum Analysis Run 5/21/2025 6:48 PM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

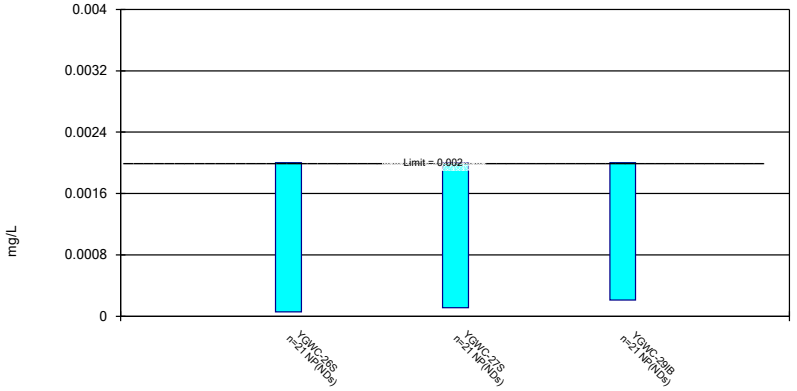


Constituent: Selenium Analysis Run 5/21/2025 6:48 PM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AP-2

Sanitas™ v.10.0.25 Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 5/21/2025 6:48 PM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AP-2

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 5/21/2025 6:49 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-29IB
6/8/2016	<0.003	<0.003	<0.003	<0.003		
6/9/2016					<0.003	<0.003
8/1/2016	<0.003	<0.003	<0.003	<0.003		
8/2/2016					<0.003	<0.003
9/20/2016	<0.003	<0.003	<0.003	<0.003		
9/21/2016					<0.003	<0.003
11/7/2016	<0.003	<0.003	<0.003	<0.003		<0.003
11/8/2016					<0.003	
1/18/2017	<0.003	<0.003	<0.003		<0.003	
1/19/2017				<0.003		<0.003
2/21/2017	<0.003	<0.003				
2/22/2017				<0.003	<0.003	<0.003
2/23/2017			<0.003			
5/3/2017		<0.003				
5/5/2017					<0.003	
5/8/2017	<0.003		<0.003	<0.003		<0.003
6/30/2017			<0.003	<0.003		
7/5/2017					<0.003	<0.003
7/10/2017	<0.003	<0.003				
3/29/2018			<0.003	<0.003		<0.003
3/30/2018	<0.003	<0.003			<0.003	
2/27/2019	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
2/13/2020	0.00052 (J)	0.0016 (J)	<0.003	<0.003	<0.003	<0.003
3/19/2020		0.0017 (J)			<0.003	
3/20/2020	0.00059 (J)		0.00033 (J)	0.0003 (J)		<0.003
9/24/2020	<0.003	<0.003	<0.003	<0.003	<0.003	0.0013 (J)
2/10/2021	<0.003	<0.003	<0.003	<0.003		
2/11/2021					<0.003	
2/12/2021						<0.003
3/2/2021		<0.003				
3/3/2021	<0.003		<0.003	<0.003	<0.003	<0.003
8/19/2021		<0.003				
8/20/2021	<0.003		<0.003	<0.003	<0.003	<0.003
2/8/2022				<0.003	<0.003	<0.003
2/10/2022	<0.003	<0.003	<0.003			
8/31/2022	0.001 (J)	<0.003				
9/1/2022			<0.003	<0.003	<0.003	<0.003
2/8/2023						<0.003
2/9/2023	<0.003	<0.003	0.0014 (J)	<0.003	<0.003	
8/2/2023						<0.003
8/16/2023					0.0023 (J)	
8/17/2023	<0.003	<0.003	<0.003	<0.003		
2/21/2024			<0.003	<0.003	<0.003	
2/22/2024	<0.003	<0.003				<0.003
8/21/2024	<0.003	<0.003	<0.003			
8/22/2024				<0.003	<0.003	<0.003
2/26/2025			<0.003		<0.003	<0.003
2/27/2025	<0.003	<0.003		<0.003		
Mean	0.0027	0.002883	0.002814	0.002883	0.00297	0.002926
Std. Dev.	0.0007947	0.0003892	0.0006359	0.000563	0.000146	0.0003545
Upper Lim.	0.003	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.001	0.0017	0.0014	0.0003	0.0023	0.0013

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 5/21/2025 6:49 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
6/8/2016	<0.005	<0.005	0.0011 (J)	<0.005			
6/9/2016					<0.005	0.00094 (J)	<0.005
8/1/2016	<0.005	<0.005	0.0009 (J)	<0.005			
8/2/2016					<0.005	<0.005	<0.005
9/20/2016	<0.005	<0.005	<0.005	<0.005			
9/21/2016					<0.005	<0.005	<0.005
11/7/2016	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005
11/8/2016					<0.005		
1/18/2017	<0.005	<0.005	<0.005		<0.005	<0.005	
1/19/2017				<0.005			<0.005
2/21/2017	<0.005	<0.005				<0.005	
2/22/2017				<0.005	<0.005		<0.005
2/23/2017			<0.005				
5/3/2017		<0.005					
5/5/2017					<0.005	<0.005	
5/8/2017	<0.005		0.0006 (J)	<0.005			<0.005
6/30/2017			0.0011 (J)	0.0005 (J)			
7/5/2017					<0.005		<0.005
7/7/2017						0.0007 (J)	
7/10/2017	<0.005	<0.005					
3/29/2018			0.0006 (J)	<0.005			<0.005
3/30/2018	<0.005	<0.005			<0.005	0.00069 (J)	
6/11/2018							<0.005
6/12/2018				<0.005	<0.005	0.00075 (J)	
6/13/2018	<0.005	<0.005	<0.005				
10/2/2018	<0.005	<0.005	<0.005	<0.005			<0.005
10/3/2018					<0.005	0.0007 (J)	
2/27/2019	<0.005	<0.005	0.00069 (J)	<0.005	<0.005	<0.005	<0.005
4/1/2019			<0.005	<0.005	<0.005		<0.005
4/2/2019	<0.005	<0.005				<0.005	
9/25/2019	<0.005	<0.005					<0.005
9/26/2019			0.00058 (J)	<0.005	<0.005	0.00057 (J)	
2/13/2020	<0.005	<0.005	0.00055 (J)	<0.005	<0.005	0.00065 (J)	<0.005
3/19/2020		<0.005			<0.005	0.00051 (J)	
3/20/2020	<0.005		0.00042 (J)	<0.005			<0.005
9/24/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/10/2021	<0.005	<0.005	<0.005	<0.005			
2/11/2021					<0.005		
2/12/2021						<0.005	<0.005
3/2/2021		<0.005					
3/3/2021	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005
8/19/2021		<0.005					
8/20/2021	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005
2/8/2022				0.0019 (J)	0.0021 (J)	0.0042 (J)	0.0033 (J)
2/10/2022	0.0028 (J)	0.0032 (J)	0.004 (J)				
8/31/2022	<0.005	<0.005					
9/1/2022			<0.005	<0.005	<0.005	<0.005	<0.005
2/8/2023							<0.005
2/9/2023	0.0024 (J)	0.0022 (J)	<0.005	<0.005	<0.005	<0.005	
8/2/2023							<0.005
8/16/2023					<0.005	<0.005	
8/17/2023	<0.005	<0.005	<0.005	<0.005			

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 5/21/2025 6:49 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
2/21/2024			<0.005	<0.005	<0.005	<0.005	
2/22/2024	<0.005	<0.005					<0.005
8/21/2024	<0.005	<0.005	<0.005				
8/22/2024				<0.005	<0.005	<0.005	<0.005
2/26/2025			<0.005		<0.005	<0.005	<0.005
2/27/2025	<0.005	<0.005		<0.005			
Mean	0.004822	0.00483	0.003539	0.004719	0.004893	0.003693	0.004937
Std. Dev.	0.0006429	0.0006293	0.00204	0.001033	0.0005581	0.001993	0.0003272
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.0028	0.0032	0.0009	0.0019	0.0021	0.00075	0.0033

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 5/21/2025 6:49 PM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
6/8/2016	0.068	0.029	0.081	0.12			
6/9/2016					0.1	0.22	0.082
8/1/2016	0.0688	0.0316	0.0838	0.115			
8/2/2016					0.0836	0.212	0.0781
9/20/2016	0.0663	0.0298	0.0687	0.108			
9/21/2016					0.0889	0.228	0.0782
11/7/2016	0.065	0.0289	0.0639	0.102		0.214	0.0712
11/8/2016					0.0886		
1/18/2017	0.0625	0.0278	0.0645		0.0862	0.213	
1/19/2017				0.102			0.0689
2/21/2017	0.0655	0.0282				0.222	
2/22/2017				0.106	0.0915		0.0741
2/23/2017			0.0728				
5/3/2017		0.0282					
5/5/2017					0.0891	0.219	
5/8/2017	0.0699		0.0721	0.102			0.0725
6/30/2017			0.0666	0.0963			
7/5/2017					0.0862		0.0677
7/7/2017						0.205	
7/10/2017	0.0691	0.0274					
3/29/2018			0.062	0.097			0.055
3/30/2018	0.063	0.026			0.087	0.2	
6/11/2018							0.068
6/12/2018				0.095	0.088	0.21	
6/13/2018	0.064	0.026	0.063				
10/2/2018	0.066	0.026	0.062	0.1			0.067
10/3/2018					0.092	0.22	
2/27/2019	0.065	0.027	0.066	0.096	0.086	0.21	0.067
4/1/2019			0.066	0.099	0.088		0.063
4/2/2019	0.065	0.027				0.2	
9/25/2019	0.063	0.026					0.061
9/26/2019			0.065	0.099	0.087	0.18	
2/13/2020	0.06	0.025	0.063	0.097	0.089	0.21	0.053
3/19/2020		0.027			0.089	0.2	
3/20/2020	0.063		0.062	0.095			0.057
9/24/2020	0.058	0.025	0.069	0.087	0.079	0.18	0.056
2/10/2021	0.06	0.031	0.08	0.088			
2/11/2021					0.078		
2/12/2021						0.057	0.21
3/2/2021		0.031					
3/3/2021	0.064		0.08	0.075	0.077	0.25	0.059
8/19/2021		0.023					
8/20/2021	0.063		0.083	0.082	0.079	0.24	0.057
2/8/2022				0.068	0.083	0.2	0.057
2/10/2022	0.063	0.027	0.079				
8/31/2022	0.057	0.024					
9/1/2022			0.076	0.049	0.068	0.2	0.057
2/8/2023							0.098
2/9/2023	0.058	0.028	0.076	0.049	0.07	0.22	
8/2/2023							0.1
8/16/2023					0.066	0.21	
8/17/2023	0.061	0.025	0.069	0.051			

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 5/21/2025 6:49 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
2/21/2024			0.06	0.047	0.062	0.21	
2/22/2024	0.057	0.025					0.081
8/21/2024	0.058	0.026	0.061				
8/22/2024				0.051	0.065	0.2	0.076
2/26/2025			0.063		0.066	0.2	0.08
2/27/2025	0.058	0.026		0.05			
Mean	0.063	0.02711	0.06957	0.08616	0.08197	0.2048	0.07462
Std. Dev.	0.003812	0.002148	0.007597	0.02259	0.009866	0.03316	0.0297
Upper Lim.	0.06482	0.02813	0.073	0.09809	0.08667	0.2188	0.0782
Lower Lim.	0.06119	0.02608	0.06585	0.07879	0.07726	0.2002	0.059

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 5/21/2025 6:49 PM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-26S	YGWC-27I	YGWC-27S
6/8/2016	<0.0005	<0.0005	<0.0005
8/1/2016	0.0002 (J)	<0.0005	<0.0005
9/20/2016	0.0001 (J)	9E-05 (J)	<0.0005
11/7/2016	0.0001 (J)	0.0001 (J)	<0.0005
1/18/2017	0.0002 (J)	0.0002 (J)	
1/19/2017			<0.0005
2/21/2017	0.0002 (J)		
2/22/2017			<0.0005
2/23/2017		0.0002 (J)	
5/3/2017	0.0002 (J)		
5/8/2017		0.0002 (J)	<0.0005
6/30/2017		0.0002 (J)	<0.0005
7/10/2017	0.0002 (J)		
3/29/2018		<0.0005	<0.0005
3/30/2018	<0.0005		
2/27/2019	0.00018 (J)	0.00022 (J)	<0.0005
4/1/2019		0.00022 (J)	<0.0005
4/2/2019	0.00015 (J)		
9/25/2019	0.00011 (J)		
9/26/2019		0.0002 (J)	<0.0005
2/13/2020	0.00015 (J)	0.00021 (J)	<0.0005
3/19/2020	0.00012 (J)		
3/20/2020		0.00023 (J)	<0.0005
9/24/2020	8.5E-05 (J)	0.00019 (J)	<0.0005
2/10/2021	0.00013 (J)	0.00014 (J)	6.6E-05 (J)
3/2/2021	0.00016 (J)		
3/3/2021		0.00013 (J)	<0.0005
8/19/2021	8.2E-05 (J)		
8/20/2021		8.6E-05 (J)	0.00011 (J)
2/8/2022			<0.0005
2/10/2022	9.3E-05 (J)	0.00013 (J)	
8/31/2022	7.4E-05 (J)		
9/1/2022		0.00012 (J)	<0.0005
2/9/2023	6.8E-05 (J)	0.0001 (J)	<0.0005
8/17/2023	<0.0005	9.5E-05 (J)	<0.0005
2/21/2024		0.00011 (J)	<0.0005
2/22/2024	<0.0005		
8/21/2024	<0.0005	<0.0005	
8/22/2024			<0.0005
2/26/2025		<0.0005	
2/27/2025	<0.0005		<0.0005
Mean	0.0002241	0.0002268	0.000467
Std. Dev.	0.0001638	0.0001469	0.0001143
Upper Lim.	0.0002	0.00023	0.0005
Lower Lim.	0.0001	0.00012	0.00011

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 5/21/2025 6:49 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-28I	YGWC-28S	YGWC-29IB
6/9/2016	0.00055 (J)	<0.0005	<0.0025
8/2/2016	0.0001 (J)	<0.0005	0.0001 (J)
9/21/2016	0.0001 (J)	<0.0005	0.0002 (J)
11/7/2016		<0.0005	0.0002 (J)
11/8/2016	9E-05 (J)		
1/18/2017	9E-05 (J)	<0.0005	
1/19/2017			0.0001 (J)
2/21/2017		<0.0005	
2/22/2017	0.0001 (J)		0.0001 (J)
5/5/2017	9E-05 (J)	<0.0005	
5/8/2017			0.0002 (J)
7/5/2017	0.0002 (J)		0.0002 (J)
7/7/2017		<0.0005	
3/29/2018			<0.0025
3/30/2018	<0.0005	<0.0005	
2/27/2019	0.00014 (J)	<0.0005	0.00026 (J)
4/1/2019	0.00043 (J)		0.00022 (J)
4/2/2019		<0.0005	
9/25/2019			0.00024 (J)
9/26/2019	<0.0005	<0.0005	
2/13/2020	0.00013 (J)	<0.0005	0.00018 (J)
3/19/2020	0.00016 (J)	<0.0005	
3/20/2020			0.00022 (J)
9/24/2020	0.00027 (J)	<0.0005	0.00033 (J)
2/11/2021	0.00052 (J)		
2/12/2021		0.00048 (J)	<0.0025
3/3/2021	0.00014 (J)	<0.0005	0.00029 (J)
8/20/2021	0.00027 (J)	<0.0005	0.00027 (J)
2/8/2022	0.00033 (J)	<0.0005	0.00019 (J)
9/1/2022	0.00017 (J)	<0.0005	0.0002 (J)
2/8/2023			0.00028 (J)
2/9/2023	<0.0005	<0.0005	
8/2/2023			0.00016 (J)
8/16/2023	<0.0005	<0.0005	
2/21/2024	<0.0005	<0.0005	
2/22/2024			0.00012 (J)
8/22/2024	0.00016 (J)	<0.0005	0.00014 (J)
2/26/2025	0.00014 (J)	<0.0005	0.00013 (J)
Mean	0.0002672	0.0004992	0.0003232
Std. Dev.	0.0001741	4E-06	0.0003546
Upper Lim.	0.00043	0.0005	0.00027
Lower Lim.	0.00013	0.00048	0.00016

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 5/21/2025 6:49 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
6/8/2016	<0.005	<0.005	<0.005	<0.005			
6/9/2016					<0.005	<0.005	<0.005
8/1/2016	0.0008 (J)	0.0026 (J)	<0.005	<0.005			
8/2/2016					0.0005 (J)	0.0005 (J)	0.0005 (J)
9/20/2016	<0.005	0.001 (J)	<0.005	<0.005			
9/21/2016					<0.005	<0.005	<0.005
11/7/2016	<0.005	0.0013 (J)	<0.005	<0.005		<0.005	<0.005
11/8/2016					<0.005		
1/18/2017	<0.005	0.002 (J)	<0.005		<0.005	<0.005	
1/19/2017				<0.005			<0.005
2/21/2017	<0.005	0.0019 (J)				<0.005	
2/22/2017				<0.005	<0.005		<0.005
2/23/2017			<0.005				
5/3/2017		0.0037 (J)					
5/5/2017					<0.005	<0.005	
5/8/2017	0.0006 (J)		<0.005	<0.005			<0.005
6/30/2017			<0.005	<0.005			
7/5/2017					<0.005		<0.005
7/7/2017						<0.005	
7/10/2017	0.0005 (J)	0.0025 (J)					
3/29/2018			<0.005	<0.005			<0.005
3/30/2018	<0.005	<0.005			<0.005	<0.005	
2/27/2019	0.0049 (J)	0.0055 (J)	<0.005	0.015	<0.005	<0.005	<0.005
4/1/2019			<0.005	<0.005	<0.005		<0.005
4/2/2019	<0.005	0.003 (J)				<0.005	
9/25/2019	0.00048 (J)	0.0012 (J)					<0.005
9/26/2019			<0.005	<0.005	0.00044 (J)	<0.005	
2/13/2020	0.00044 (J)	0.0012 (J)	<0.005	<0.005	0.00047 (J)	<0.005	<0.005
3/19/2020		0.0018 (J)			<0.005	0.00049 (J)	
3/20/2020	0.0009 (J)		<0.005	0.0005 (J)			<0.005
9/24/2020	0.00067 (J)	0.00068 (J)	<0.005	0.00057 (J)	<0.005	0.0006 (J)	<0.005
2/10/2021	0.00065 (J)	0.00091 (J)	<0.005	0.0027 (J)			
2/11/2021					<0.005		
2/12/2021						<0.005	<0.005
3/2/2021		0.001 (J)					
3/3/2021	<0.005		<0.005	0.00058 (J)	<0.005	<0.005	<0.005
8/19/2021		0.0012 (J)					
8/20/2021	<0.005		0.012	0.0041 (J)	<0.005	<0.005	<0.005
2/8/2022				<0.005	<0.005	<0.005	<0.005
2/10/2022	<0.005	<0.005	<0.005				
8/31/2022	<0.005	<0.005					
9/1/2022			<0.005	<0.005	<0.005	<0.005	<0.005
2/8/2023							<0.005
2/9/2023	<0.005	<0.005	<0.005	<0.005	<0.005	0.0034 (J)	
8/2/2023							<0.005
8/16/2023					<0.005	<0.005	
8/17/2023	<0.005	<0.005	<0.005	<0.005			
2/21/2024			<0.005	<0.005	<0.005	<0.005	
2/22/2024	<0.005	<0.005					<0.005
8/21/2024	<0.005	<0.005	<0.005				
8/22/2024				<0.005	<0.005	<0.005	<0.005
2/26/2025			<0.005		<0.005	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 5/21/2025 6:49 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
2/27/2025	<0.005	<0.005		<0.005			
Mean	0.003598	0.00306	0.00528	0.004738	0.004456	0.0044	0.00482
Std. Dev.	0.00208	0.001792	0.0014	0.002612	0.001502	0.001493	0.0009
Upper Lim.	0.005	0.005	0.012	0.005	0.005	0.005	0.005
Lower Lim.	0.0008	0.0012	0.005	0.0041	0.0005	0.0034	0.0005

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 5/21/2025 6:49 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
6/8/2016	0.0032	0.0016 (J)	0.0024 (J)			
6/9/2016				0.00042 (J)	0.00085 (J)	0.00052 (J)
8/1/2016	0.003 (J)	0.0014 (J)	0.0026 (J)			
8/2/2016				<0.005	0.0008 (J)	0.0006 (J)
9/20/2016	0.003 (J)	0.002 (J)	0.0026 (J)			
9/21/2016				<0.005	0.0008 (J)	0.0007 (J)
11/7/2016	0.0025 (J)	0.0016 (J)	0.0025 (J)		0.001 (J)	<0.005
11/8/2016				<0.005		
1/18/2017	0.0022 (J)	0.0017 (J)		<0.005	0.001 (J)	
1/19/2017			0.0024 (J)			<0.005
2/21/2017	0.0022 (J)				0.0011 (J)	
2/22/2017			0.0023 (J)	<0.005		<0.005
2/23/2017		0.002 (J)				
5/3/2017	0.002 (J)					
5/5/2017				<0.005	0.0012 (J)	
5/8/2017		0.0029 (J)	0.0023 (J)			<0.005
6/30/2017		0.0044 (J)	0.0022 (J)			
7/5/2017				<0.005		0.0003 (J)
7/7/2017					0.0012 (J)	
7/10/2017	0.002 (J)					
3/29/2018		0.051	<0.01			<0.005
3/30/2018	<0.005			<0.005	<0.005	
6/11/2018						<0.005
6/12/2018			0.0025 (J)	<0.005	0.0011 (J)	
6/13/2018	0.0017 (J)	0.092				
10/2/2018	0.0016 (J)	0.078	0.0023 (J)			<0.005
10/3/2018				<0.005	0.0013 (J)	
2/27/2019	0.0017 (J)	0.035	0.0024 (J)	<0.005	0.00093 (J)	<0.005
4/1/2019		0.025	0.0023 (J)	<0.005		<0.005
4/2/2019	0.0022 (J)				0.0011 (J)	
9/25/2019	0.0033 (J)					<0.005
9/26/2019		0.014	0.0021 (J)	<0.005	0.00098 (J)	
2/13/2020	0.0019 (J)	0.012	0.0026 (J)	<0.005	0.00092 (J)	<0.005
3/19/2020	0.0021 (J)			<0.005	0.00093 (J)	
3/20/2020		0.014	0.0022 (J)			<0.005
9/24/2020	0.0011 (J)	0.0076	0.0021 (J)	<0.005	0.00085 (J)	<0.005
2/10/2021	0.0017 (J)	0.0048 (J)	0.0025 (J)			
2/11/2021				<0.005		
2/12/2021					<0.005	0.00094 (J)
3/2/2021	0.0021 (J)					
3/3/2021		0.0042 (J)	0.0017 (J)	<0.005	0.001 (J)	<0.005
8/19/2021	0.0017 (J)					
8/20/2021		0.0034 (J)	0.0027 (J)	<0.005	0.00097 (J)	<0.005
2/8/2022			0.0017 (J)	<0.005	0.00091 (J)	<0.005
2/10/2022	0.0026 (J)	0.0051				
8/31/2022	0.0026 (J)					
9/1/2022		0.0096	0.0015 (J)	<0.005	0.00071 (J)	<0.005
2/8/2023						0.0053
2/9/2023	0.0017 (J)	0.0083	0.0015 (J)	<0.005	0.00074 (J)	
8/2/2023						0.0027 (J)
8/16/2023				<0.005	0.0008 (J)	
8/17/2023	0.00088 (J)	0.0079	0.0014 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 5/21/2025 6:49 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
2/21/2024		0.016	0.0016 (J)	<0.005	0.00074 (J)	
2/22/2024	0.0012 (J)					0.0071
8/21/2024	0.00094 (J)	0.012				
8/22/2024			0.0014 (J)	<0.005	0.00085 (J)	0.0061
2/26/2025		0.014		<0.005	<0.005	0.0063
2/27/2025	<0.005		0.0017 (J)			
Mean	0.002079	0.01598	0.002241	0.00483	0.001121	0.00428
Std. Dev.	0.0006511	0.0229	0.0006891	0.0008814	0.0005183	0.001913
Upper Lim.	0.002389	0.01373	0.0025	0.005	0.0011	0.0053
Lower Lim.	0.001768	0.004382	0.0017	0.00042	0.00085	0.0027

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/21/2025 6:49 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
6/8/2016	6.68 (o)	0.677	1.81	0.257 (U)			
6/9/2016					0.194 (U)	0.715	0.523
8/1/2016	0.606	0.457	3.79	0.453			
8/2/2016					0.331	0.526	1.25
9/20/2016	0.565	0.555	3.12	1.27			
9/21/2016					0.335	0.176	1.21
11/7/2016	0.773	0.647	2.66	0.877		0.609	1.16
11/8/2016					0.245		
1/18/2017	0.263 (U)	0.6 (U)	3.44		0.261 (U)	0.0752 (U)	
1/19/2017				0.764 (U)			0.933 (U)
2/21/2017	1.06	1.11				0.404	
2/22/2017				1.26	0.516		1.45
2/23/2017			4.73				
5/3/2017		0.654					
5/5/2017					0.713	0.868	
5/8/2017	0.291		3.87	0.789			0.21
6/30/2017			2.85	0.592 (U)			
7/5/2017					0.292 (U)		0.62 (U)
7/7/2017						1.29	
7/10/2017	0.912	0.649 (U)					
3/29/2018			1.41	0.916			1.37
3/30/2018	0.23	0.501			0.948	0.195	
6/11/2018							1.27 (U)
6/12/2018				0.666 (U)	0.869 (U)	1.02 (U)	
6/13/2018	0.427 (U)	1.09 (U)	3.69				
10/2/2018	1.41 (U)	0.747 (U)	4.5	0.774 (U)			0.442 (U)
10/3/2018					0.864 (U)	0.713 (U)	
2/27/2019	0.614 (U)	1.27	4.69	1.19	0.947 (U)	0.543 (U)	0.902 (U)
4/1/2019			5	0.777 (U)	0.162 (U)		0.584 (U)
4/2/2019	0.84 (U)	0.708 (U)				0.521 (U)	
9/25/2019	1.01 (U)	1.18 (U)					1.03 (U)
9/26/2019			3.37	1.01 (U)	1.06 (U)	1.16	
2/13/2020	1.86	0.178 (U)	4.48	0.961 (U)	1.12 (U)	1.04	0.806 (U)
3/19/2020		0.796 (U)			0.913 (U)	1.01 (U)	
3/20/2020	2.03		4.13	1.5			1.42
9/24/2020	1.47	1.14	3.42	1.49	0.47	1.25	1.44
2/10/2021	0.513 (U)	0.41 (U)	2.47	0.663 (U)			
2/11/2021					1.07		
2/12/2021						0.419 (U)	0.826
3/2/2021		0.394 (U)					
3/3/2021	0.419 (U)		1.39	0.327 (U)	0.261 (U)	1.04	0.955
8/19/2021		0.531 (U)					
8/20/2021	0.596 (U)		1.36	0.542 (U)	0.656 (U)	1.34	0.314 (U)
2/8/2022				0.781 (U)	1.07 (U)	0.964	0.104 (U)
2/10/2022	0.149 (U)	0.431 (U)	1.23				
8/31/2022	0.179 (U)	0.602 (U)					
9/1/2022			2.93	0.147 (U)	0.602 (U)	0.127 (U)	0.445 (U)
2/8/2023							0.963 (U)
2/9/2023	1.05 (U)	0.46 (U)	2.56	0.348 (U)	0.164 (U)	0.733 (U)	
8/2/2023							1.23
8/16/2023					0.62 (U)	0.837 (U)	
8/17/2023	0.635 (U)	0.734 (U)	3.48	0.509 (U)			

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/21/2025 6:49 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
2/21/2024			3.26	0.669 (U)	0.447 (U)	0.781 (U)	
2/22/2024	0.745 (U)	0.303 (U)					0.871 (U)
8/21/2024	0.442 (U)	0.78 (U)	2.97				
8/22/2024				0.428 (U)	0.762 (U)	0.58 (U)	0.459 (U)
2/26/2025			2.96		0.755 (U)	1.16 (U)	1.3 (U)
2/27/2025	0.179 (U)	0.425 (U)		0.614 (U)			
Mean	0.7411	0.6677	3.169	0.762	0.6166	0.7443	0.8921
Std. Dev.	0.5027	0.2808	1.082	0.356	0.3194	0.3674	0.4019
Upper Lim.	0.9861	0.8017	3.685	0.9318	0.7689	0.9196	1.084
Lower Lim.	0.4961	0.5338	2.653	0.5922	0.4642	0.5691	0.7004

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 5/21/2025 6:49 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
6/8/2016	0.094 (J)	<0.1	0.086 (J)	0.12 (J)			
6/9/2016					0.098 (J)	0.16 (J)	0.085 (J)
8/1/2016	0.08 (J)	0.24 (J)	0.14 (J)	0.22 (J)			
8/2/2016					0.38	0.5	0.09 (J)
9/20/2016	0.05 (J)	0.03 (J)	<0.3	0.32			
9/21/2016					0.08 (J)	0.25 (J)	0.09 (J)
11/7/2016	0.12 (J)	0.44	0.12 (J)	0.2 (J)		0.27 (J)	0.11 (J)
11/8/2016					0.24 (J)		
1/18/2017	0.11 (J)	0.07 (J)	0.08 (J)		0.12 (J)	0.34	
1/19/2017				0.25 (J)			0.06 (J)
2/21/2017	0.1 (J)	0.11 (J)				0.27 (J)	
2/22/2017				0.21 (J)	0.15 (J)		0.09 (J)
2/23/2017			0.08 (J)				
5/3/2017		0.16 (J)					
5/5/2017					0.08 (J)	0.2 (J)	
5/8/2017	0.08 (J)		0.07 (J)	0.19 (J)			0.06 (J)
6/30/2017			0.03 (J)	0.2 (J)			
7/5/2017					0.11 (J)		0.08 (J)
7/7/2017						0.18 (J)	
7/10/2017	0.04 (J)	0.04 (J)					
10/5/2017					0.08 (J)		0.09 (J)
10/6/2017				0.15 (J)			
10/9/2017			0.07 (J)			0.25 (J)	
10/10/2017	<0.1	<0.1					
3/29/2018			<0.3	0.49			<0.3
3/30/2018	<0.1	0.35			<0.3	<0.3	
6/11/2018							<0.3
6/12/2018				0.037 (J)	<0.3	0.13 (J)	
6/13/2018	0.088 (J)	0.044 (J)	<0.3				
10/2/2018	<0.1	<0.1	<0.3	<0.1			<0.3
10/3/2018					<0.3	0.31	
2/27/2019	<0.1	<0.1	<0.3	0.14 (J)	0.14 (J)	0.22 (J)	0.15 (J)
4/1/2019			0.034 (J)	0.088 (J)	0.078 (J)		0.059 (J)
4/2/2019	0.071 (J)	<0.1				0.14 (J)	
9/25/2019	0.064 (J)	<0.1					0.054 (J)
9/26/2019			0.14 (J)	0.22 (J)	0.29 (J)	0.28 (J)	
2/13/2020	<0.1	<0.1	<0.3	0.11 (J)	0.14 (J)	0.18 (J)	0.053 (J)
3/19/2020		<0.1			0.07 (J)	0.16 (J)	
3/20/2020	0.06 (J)		<0.3	0.097 (J)			0.057 (J)
9/24/2020	0.053 (J)	<0.1	0.059 (J)	0.092 (J)	0.073 (J)	0.16	0.06 (J)
2/10/2021	0.05 (J)	<0.1	0.055 (J)	0.084 (J)			
2/11/2021					0.066 (J)		
2/12/2021						0.069 (J)	0.17
3/2/2021		<0.1					
3/3/2021	0.05 (J)		0.058 (J)	<0.1	0.072 (J)	0.13	0.056 (J)
8/19/2021		<0.1					
8/20/2021	<0.1		0.091 (J)	0.11	0.11	0.2	0.069 (J)
2/8/2022				0.087 (J)	0.063 (J)	0.14	0.053 (J)
2/10/2022	<0.1	<0.1	0.059 (J)				
8/31/2022	0.082 (J)	0.076 (J)					
9/1/2022			0.1	0.12	0.11	0.16	0.091 (J)
2/8/2023							0.092 (J)

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 5/21/2025 6:49 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
2/9/2023	0.088 (J)	0.07 (J)	0.1	0.12	0.14	0.18	
8/2/2023							0.054 (J)
8/16/2023					0.078 (J)	0.18	
8/17/2023	0.073 (J)	0.06 (J)	0.081 (J)	0.098 (J)			
2/21/2024			0.082 (J)	0.11	0.096 (J)	0.15	
2/22/2024	0.057 (J)	<0.1					0.075 (J)
8/21/2024	0.098 (J)	<0.1	0.12				
8/22/2024				0.075 (J)	0.08 (J)	0.14	0.071 (J)
2/26/2025			0.059 (J)		0.067 (J)	0.13	0.059 (J)
2/27/2025	0.087 (J)	0.069 (J)		0.12			
Mean	0.08196	0.1164	0.1362	0.1485	0.1236	0.201	0.08671
Std. Dev.	0.02163	0.08829	0.0998	0.09475	0.07268	0.08584	0.03562
Upper Lim.	0.08293	0.11	0.14	0.1775	0.15	0.2315	0.091
Lower Lim.	0.06131	0.076	0.07	0.1014	0.078	0.1589	0.059

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 5/21/2025 6:49 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-26I	YGWC-26S	YGWC-27S	YGWC-28S	YGWC-29IB
6/8/2016	<0.001	<0.001	0.0012 (J)		
6/9/2016				<0.001	<0.001
8/1/2016	<0.001	<0.001	<0.001		
8/2/2016				<0.001	<0.001
9/20/2016	<0.001	<0.001	0.0002 (J)		
9/21/2016				<0.001	<0.001
11/7/2016	<0.001	<0.001	<0.001	<0.001	<0.001
1/18/2017	<0.001	<0.001		<0.001	
1/19/2017			<0.001		<0.001
2/21/2017	<0.001	<0.001		<0.001	
2/22/2017			<0.001		<0.001
5/3/2017		0.0001 (J)			
5/5/2017				9E-05 (J)	
5/8/2017	<0.001		<0.001		<0.001
6/30/2017			<0.001		
7/5/2017					<0.001
7/7/2017				7E-05 (J)	
7/10/2017	<0.001	8E-05 (J)			
3/29/2018			<0.001		<0.001
3/30/2018	<0.001	<0.001		<0.001	
2/27/2019	<0.001	<0.001	<0.001	<0.001	<0.001
2/13/2020	<0.001	<0.001	6.2E-05 (J)	5.4E-05 (J)	<0.001
3/19/2020		0.0001 (J)		7.5E-05 (J)	
3/20/2020	5.9E-05 (J)		8.5E-05 (J)		<0.001
9/24/2020	<0.001	6.4E-05	0.00037 (J)	6.3E-05	9.5E-05
2/10/2021	5.1E-05 (J)	5E-05 (J)	0.00072 (J)		
2/12/2021				5.2E-05 (J)	6.6E-05 (J)
3/2/2021		5.6E-05 (J)			
3/3/2021	<0.001		<0.001	<0.001	0.00016 (J)
8/19/2021		<0.001			
8/20/2021	<0.001		0.00096 (J)	<0.001	<0.001
2/8/2022			<0.001	<0.001	<0.001
2/10/2022	<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
2/9/2023	<0.001	<0.001	<0.001	<0.001	
8/2/2023					<0.001
8/16/2023				<0.001	
8/17/2023	<0.001	<0.001	<0.001		
2/21/2024			<0.001	<0.001	
2/22/2024	<0.001	<0.001			<0.001
8/21/2024	<0.001	<0.001			
8/22/2024			<0.001	<0.001	<0.001
2/26/2025				<0.001	<0.001
2/27/2025	<0.001	<0.001	<0.001		
Mean	0.0009178	0.0007587	0.000852	0.0007567	0.0008835
Std. Dev.	0.0002723	0.0004154	0.0003283	0.0004188	0.0003078
Upper Lim.	0.001	0.001	0.001	0.001	0.001
Lower Lim.	5.9E-05	0.0001	0.00096	9E-05	0.00016

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 5/21/2025 6:49 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-26I	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
6/8/2016	0.007	0.0067	<0.03			
6/9/2016				0.0073	<0.03	0.0075
8/1/2016	0.0068 (J)	0.008 (J)	<0.03			
8/2/2016				0.0073 (J)	<0.03	0.0078 (J)
9/20/2016	0.0062 (J)	0.0111 (J)	<0.03			
9/21/2016				0.0067 (J)	<0.03	0.0074 (J)
11/7/2016	0.0057 (J)	0.0097 (J)	<0.03		<0.03	0.0057 (J)
11/8/2016				0.0072 (J)		
1/18/2017	0.0066 (J)	0.01 (J)		0.0067 (J)	<0.03	
1/19/2017			<0.03			0.0055 (J)
2/21/2017	0.0067 (J)				<0.03	
2/22/2017			<0.03	0.0064 (J)		0.0063 (J)
2/23/2017		0.0099 (J)				
5/5/2017				0.007 (J)	<0.03	
5/8/2017	0.007 (J)	0.0086 (J)	<0.03			0.0066 (J)
6/30/2017		0.0108 (J)	<0.03			
7/5/2017				0.0072 (J)		0.0058 (J)
7/7/2017					<0.03	
7/10/2017	0.0064 (J)					
3/29/2018		0.011 (J)	<0.03			0.0049 (J)
3/30/2018	0.0068 (J)			0.007 (J)	<0.03	
6/11/2018						0.0064 (J)
6/12/2018			<0.03	0.0073 (J)	<0.03	
6/13/2018	0.0071 (J)	0.014 (J)				
10/2/2018	0.0064 (J)	0.012 (J)	<0.03			0.006 (J)
10/3/2018				0.0069 (J)	<0.03	
2/27/2019	0.0069 (J)	0.0096 (J)	<0.03	0.0063 (J)	<0.03	0.0053 (J)
4/1/2019		0.0082 (J)	<0.03	0.0065 (J)		0.0052 (J)
4/2/2019	0.0064 (J)				<0.03	
9/25/2019	0.0073 (J)					0.0057 (J)
9/26/2019		0.0075 (J)	<0.03	0.0064 (J)	<0.03	
2/13/2020	0.0073 (J)	0.0079 (J)	<0.03	0.0069 (J)	<0.03	0.0057 (J)
3/19/2020				0.007 (J)	<0.03	
3/20/2020	0.0072 (J)	0.0091 (J)	<0.03			0.0051 (J)
9/24/2020	0.0074 (J)	0.0075 (J)	<0.03	0.0065 (J)	<0.03	0.005 (J)
2/10/2021	0.0067 (J)	0.0067 (J)	0.00081 (J)			
2/11/2021				0.007 (J)		
2/12/2021					0.0053 (J)	<0.03
3/3/2021	0.0077 (J)	0.0066 (J)	<0.03	0.0063 (J)	<0.03	0.0054 (J)
8/20/2021	0.0079 (J)	0.0066 (J)	0.0013 (J)	0.0072 (J)	<0.03	0.0056 (J)
2/8/2022			<0.03	0.0076 (J)	<0.03	0.0064 (J)
2/10/2022	0.0086 (J)	0.0072 (J)				
8/31/2022	0.0074 (J)					
9/1/2022		0.0069 (J)	<0.03	0.0066 (J)	<0.03	0.0051 (J)
2/8/2023						0.012 (J)
2/9/2023	0.0075 (J)	0.0069 (J)	<0.03	0.0066 (J)	<0.03	
8/2/2023						0.013 (J)
8/16/2023				0.0058 (J)	<0.03	
8/17/2023	0.0077 (J)	0.0067 (J)	<0.03			
2/21/2024		0.007 (J)	<0.03	0.0056 (J)	<0.03	
2/22/2024	0.0078 (J)					0.0051 (J)
8/21/2024	0.0072 (J)	0.0068 (J)				

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 5/21/2025 6:49 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-26I	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
8/22/2024			<0.03	0.006 (J)	<0.03	0.0044 (J)
2/26/2025		0.00778 (J)		0.00668 (J)	<0.03	0.00486 (J)
2/27/2025	0.008 (J)		<0.03			
Mean	0.0071	0.008547	0.02786	0.00674	0.02909	0.006621
Std. Dev.	0.0006325	0.001962	0.007725	0.0004862	0.004754	0.002591
Upper Lim.	0.007402	0.009326	0.03	0.006972	0.03	0.0066
Lower Lim.	0.006798	0.007566	0.0013	0.006508	0.0053	0.0052

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 5/21/2025 6:49 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
6/8/2016	<0.0002	<0.0002	<0.0002	<0.0002			
6/9/2016					7.8E-05 (J)	8.1E-05 (J)	8.1E-05 (J)
8/1/2016	<0.0002	<0.0002	<0.0002	<0.0002			
8/2/2016					<0.0002	<0.0002	<0.0002
9/20/2016	<0.0002	<0.0002	<0.0002	<0.0002			
9/21/2016					<0.0002	<0.0002	<0.0002
11/7/2016	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002
11/8/2016					<0.0002		
1/18/2017	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	
1/19/2017				<0.0002			<0.0002
2/21/2017	<0.0002	<0.0002				<0.0002	
2/22/2017				<0.0002	<0.0002		<0.0002
2/23/2017			<0.0002				
5/3/2017		<0.0002					
5/5/2017					<0.0002	<0.0002	
5/8/2017	<0.0002		<0.0002	<0.0002			<0.0002
6/30/2017			6E-05 (J)	0.0001 (J)			
7/5/2017					<0.0002		<0.0002
7/7/2017						<0.0002	
7/10/2017	<0.0002	<0.0002					
3/29/2018			<0.0002	<0.0002			<0.0002
3/30/2018	<0.0002	<0.0002			<0.0002	<0.0002	
2/27/2019	5.1E-05 (J)	4.9E-05 (J)	5.4E-05 (J)	4.9E-05 (J)	4.8E-05 (J)	5.2E-05 (J)	4.7E-05 (J)
4/1/2019			4.5E-05 (J)	4.1E-05 (J)	<0.0002		3.9E-05 (J)
4/2/2019	5.1E-05 (J)	6.6E-05 (J)				<0.0002	
9/25/2019	<0.0002	<0.0002					<0.0002
9/26/2019			<0.0002	<0.0002	<0.0002	<0.0002	
2/13/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/10/2021	<0.0002	<0.0002	<0.0002	<0.0002			
2/11/2021					<0.0002		
2/12/2021						<0.0002	<0.0002
2/8/2022				<0.0002	<0.0002	<0.0002	<0.0002
2/10/2022	<0.0002	<0.0002	<0.0002				
8/31/2022	<0.0002	<0.0002					
9/1/2022			<0.0002	0.00019 (J)	<0.0002	<0.0002	<0.0002
2/8/2023							<0.0002
2/9/2023	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
8/2/2023							<0.0002
8/16/2023					<0.0002	<0.0002	
8/17/2023	<0.0002	<0.0002	<0.0002	<0.0002			
2/21/2024			<0.0002	<0.0002	<0.0002	<0.0002	
2/22/2024	<0.0002	<0.0002					<0.0002
8/21/2024	<0.0002	<0.0002	<0.0002				
8/22/2024				<0.0002	<0.0002	<0.0002	<0.0002
2/26/2025			<0.0002		<0.0002	<0.0002	<0.0002
2/27/2025	<0.0002	<0.0002		<0.0002			
Mean	0.0001858	0.0001864	0.000179	0.00018	0.000187	0.0001873	0.0001794
Std. Dev.	4.482E-05	4.295E-05	5.276E-05	4.989E-05	4.148E-05	4.042E-05	5.223E-05
Upper Lim.	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Lower Lim.	5.1E-05	6.6E-05	6E-05	0.00019	7.8E-05	8.1E-05	8.1E-05

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 5/21/2025 6:49 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-27I	YGWC-28I	YGWC-28S	YGWC-29IB
6/8/2016	0.0011 (J)			
6/9/2016		0.0011 (J)	<0.01	<0.01
8/1/2016	0.0018 (J)			
8/2/2016		0.0014 (J)	0.0006 (J)	<0.01
9/20/2016	<0.01			
9/21/2016		<0.01	<0.01	<0.01
11/7/2016	<0.01		<0.01	<0.01
11/8/2016		<0.01		
1/18/2017	<0.01	<0.01	<0.01	
1/19/2017				<0.01
2/21/2017			<0.01	
2/22/2017		<0.01		<0.01
2/23/2017	<0.01			
5/5/2017		0.0014 (J)	0.0007 (J)	
5/8/2017	0.0011 (J)			<0.01
6/30/2017	<0.01			
7/5/2017		0.0014 (J)		<0.01
7/7/2017			<0.01	
3/29/2018	<0.01			<0.01
3/30/2018		<0.01	<0.01	
6/11/2018				<0.01
6/12/2018		<0.01	<0.01	
6/13/2018	<0.01			
10/2/2018	<0.01			<0.01
10/3/2018		<0.01	<0.01	
2/27/2019	<0.01	<0.01	<0.01	<0.01
4/1/2019	<0.01	<0.01		<0.01
4/2/2019			<0.01	
9/25/2019				<0.01
9/26/2019	0.0013 (J)	0.0013 (J)	<0.01	
2/13/2020	0.0014 (J)	0.0013 (J)	<0.01	<0.01
3/19/2020		0.0014 (J)	<0.01	
3/20/2020	0.0014 (J)			<0.01
9/24/2020	0.0015 (J)	0.0012 (J)	0.00075 (J)	<0.01
2/10/2021	0.0016 (J)			
2/11/2021		0.0012 (J)		
2/12/2021			<0.01	0.00083 (J)
3/3/2021	0.0017 (J)	0.0011 (J)	0.00083 (J)	<0.01
8/20/2021	0.0042 (J)	0.001 (J)	<0.01	<0.01
2/8/2022		0.0011 (J)	0.00082 (J)	<0.01
2/10/2022	0.0018 (J)			
9/1/2022	0.0016 (J)	0.001 (J)	<0.01	<0.01
2/8/2023				0.00099 (J)
2/9/2023	0.0019 (J)	0.0014 (J)	0.00083 (J)	
8/2/2023				<0.01
8/16/2023		0.0016 (J)	0.00077 (J)	
8/17/2023	0.0016 (J)			
2/21/2024	0.0015 (J)	0.0013 (J)	0.00068 (J)	
2/22/2024				<0.01
8/21/2024	0.0016 (J)			
8/22/2024		0.0015 (J)	0.00063 (J)	<0.01
2/26/2025	<0.01	<0.01	<0.01	<0.01

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 5/21/2025 6:49 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-27I	YGWC-28I	YGWC-28S	YGWC-29IB
Mean	0.005078	0.004507	0.006911	0.009327
Std. Dev.	0.004194	0.004295	0.004451	0.002426
Upper Lim.	0.01	0.01	0.01	0.01
Lower Lim.	0.0015	0.0012	0.00082	0.00099

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 5/21/2025 6:49 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-26I	YGWC-26S	YGWC-28I	YGWC-28S
6/8/2016	0.0016	0.0003 (J)		
6/9/2016			<0.005	<0.005
8/1/2016	0.0023 (J)	0.0014 (J)		
8/2/2016			<0.005	<0.005
9/20/2016	0.0022 (J)	<0.005		
9/21/2016			<0.005	0.001 (J)
11/7/2016	0.0017 (J)	<0.005		<0.005
11/8/2016			<0.005	
1/18/2017	0.002 (J)	0.0012 (J)	<0.005	<0.005
2/21/2017	0.0018 (J)	0.0014 (J)		<0.005
2/22/2017			0.0012 (J)	
5/3/2017		<0.005		
5/5/2017			<0.005	<0.005
5/8/2017	<0.01			
7/5/2017			<0.005	
7/7/2017				<0.005
7/10/2017	0.002 (J)	<0.005		
3/30/2018	<0.01	<0.005	<0.005	<0.005
2/27/2019	0.002 (J)	<0.005	<0.005	<0.005
4/1/2019			<0.005	
4/2/2019	0.0017 (J)	<0.005		<0.005
9/25/2019	0.0019 (J)	<0.005		
9/26/2019			<0.005	<0.005
2/13/2020	0.0019 (J)	<0.005	<0.005	<0.005
3/19/2020		<0.005	<0.005	<0.005
3/20/2020	0.0019 (J)			
9/24/2020	0.0031 (J)	<0.005	<0.005	<0.005
2/10/2021	0.0026 (J)	<0.005		
2/11/2021			<0.005	
2/12/2021				<0.005
3/2/2021		<0.005		
3/3/2021	0.0034 (J)		<0.005	<0.005
8/19/2021		<0.005		
8/20/2021	0.0026 (J)		<0.005	<0.005
2/8/2022			<0.005	<0.005
2/10/2022	0.0042 (J)	<0.005		
8/31/2022	0.0036 (J)	<0.005		
9/1/2022			<0.005	<0.005
2/9/2023	0.0042 (J)	<0.005	<0.005	<0.005
8/16/2023			<0.005	<0.005
8/17/2023	0.0046 (J)	<0.005		
2/21/2024			<0.005	<0.005
2/22/2024	0.0041 (J)	<0.005		
8/21/2024	0.0047 (J)	<0.005		
8/22/2024			<0.005	<0.005
2/26/2025			<0.005	<0.005
2/27/2025	0.0047 (J)	<0.005		
Mean	0.002992	0.004372	0.004848	0.00484
Std. Dev.	0.001222	0.00148	0.00076	0.0008
Upper Lim.	0.0042	0.005	0.005	0.005
Lower Lim.	0.0019	0.0014	0.0012	0.001

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 5/21/2025 6:49 PM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates AP-2

	YGWC-26S	YGWC-27S	YGWC-29IB
6/8/2016	<0.002	0.00012 (J)	
6/9/2016			<0.002
8/1/2016	<0.002	0.0001 (J)	
8/2/2016			<0.002
9/20/2016	<0.002	<0.002	
9/21/2016			<0.002
11/7/2016	<0.002	<0.002	<0.002
1/18/2017	<0.002		
1/19/2017		<0.002	<0.002
2/21/2017	<0.002		
2/22/2017		<0.002	<0.002
5/3/2017	<0.002		
5/8/2017		0.0001 (J)	<0.002
6/30/2017		0.0001 (J)	
7/5/2017			<0.002
7/10/2017	<0.002		
3/29/2018		<0.002	<0.002
3/30/2018	<0.002		
2/27/2019	<0.002	<0.002	<0.002
2/13/2020	5.7E-05 (J)	0.0001 (J)	<0.002
3/19/2020	5.5E-05 (J)		
3/20/2020		0.00011 (J)	<0.002
9/24/2020	<0.002	<0.002	<0.002
2/10/2021	<0.002	<0.002	
2/12/2021			<0.002
2/8/2022		<0.002	<0.002
2/10/2022	<0.002		
8/31/2022	<0.002		
9/1/2022		<0.002	<0.002
2/8/2023			0.00021 (J)
2/9/2023	<0.002	<0.002	
8/2/2023			<0.002
8/17/2023	<0.002	<0.002	
2/21/2024		<0.002	
2/22/2024	<0.002		<0.002
8/21/2024	<0.002		
8/22/2024		<0.002	<0.002
2/26/2025			<0.002
2/27/2025	<0.002	<0.002	
Mean	0.001815	0.001459	0.001915
Std. Dev.	0.0005847	0.0008772	0.0003906
Upper Lim.	0.002	0.002	0.002
Lower Lim.	5.7E-05	0.00011	0.00021

ND substitution: RL or RL/2 if <15% NDs.

Arcadis U.S., Inc.

2839 Paces Ferry Road, Suite 1000
Atlanta
Georgia 30339
Phone: 770 431 8666
Fax: 770 435 2666
www.arcadis.com