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Georgia Power

2024 Annual Groundwater Monitoring and Corrective Action Report

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

January 31, 2025

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Summary

This summary of the 2024 Annual Monitoring and Corrective Action Report provides the status of the groundwater monitoring and corrective action program from January through December 2024 at Georgia Power Company's (Georgia Power's) Plant Yates Ash Ponds (AP) AP-3, A, B, B', and the R6 Landfill (the site). This summary was prepared by Arcadis U.S., Inc. (Arcadis) on behalf of Georgia Power to meet the requirements listed in Part A, Section 6[1] of the United States Environmental Protection Agency (USEPA) Coal Combustion Residual (CCR) Rule (40 Code of Federal Regulations [CFR] 257 Subpart D).

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

Plant Yates and the site

Groundwater at the site is monitored using a comprehensive multi-unit monitoring system of wells installed to meet federal and state monitoring requirements. Routine sampling and reporting began in 2017 after the completion of eight background sampling events. Based on groundwater conditions at the site, an assessment monitoring program was established on January 14, 2018 at AP-3, B, and B'; in September 2019 for AP-A; and on November 13, 2019 for the R6 Landfill. An assessment of corrective measures (ACM) was initiated on February 12, 2019 for the AP-3, B, and B' units. AP-A was added to the ACM on June 12, 2019, and the R6 CCR Landfill was incorporated on January 31, 2020. During the 2024 reporting period, the site remained in assessment monitoring following the August 31, 2022 submittal of the Draft Remedy Selection Report to GAEPD.

During the 2024 reporting period, Arcadis conducted a semiannual groundwater sampling event in February and August. Groundwater samples were submitted to Pace Analytical Services, LLC, for analysis. Per the CCR Rule, groundwater results were evaluated in accordance with the certified statistical methods. That evaluation showed statistically significant values of Appendix III[2] and Appendix IV[3] parameters[4] in the wells identified in the following table.

[1] 80 Federal Register (FR) 21468, Apr. 17, 2015, as amended at 81 FR 51807, Aug. 5, 2016; 83 FR 36452, July 30, 2018; and 85 FR 53561, Aug. 28, 2020
[2] Boron, calcium, chloride, fluoride, pH, sulfate, and total dissolved solids (TDS).
[3] Antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, fluoride, lead, lithium, mercury, molybdenum, selenium, thallium, and radium 226 + 228
[4] A statistically significant level SSL-related constituent is determined by comparing the confidence intervals developed to either the constituent's MCL, if available, the USEPA RSL, if no MCL is available, or the calculated background interwell prediction limit.

Appendix III Parameter	February 2024	August 2024
Boron	YGWC-23S, YGWC-38, YGWC-41, YGWC-42, YGWC-43	YGWC-23S, YGWC-38, YGWC-41, YGWC-42, YGWC-43
Calcium	YGWC-38, YGWC-42	YGWC-38, YGWC-42, YGWC-36A
Sulfate	YGWC-38, YGWC-42	YGWC-38, YGWC-42, YGWC-43, YGWC-36A
Total Dissolved Solids	YGWC-38, YGWC-41, YGWC-42	YGWC-38, YGWC-42, YGWC-43, YGWC-36A
Appendix IV Parameter	**February 2024**	**August 2024**
Cobalt	YAMW-3	--
Lithium	YGWC-42	YGWC-42
Selenium	PZ-37, YGWC-38	PZ-37

The selenium SSLs at wells YGWC-38 and PZ-37 are horizontally delineated by downgradient wells YGWC-23S and YGWC-36A, respectively. YGWC-38 and PZ-37 are vertically delineated by PZ-52D. The SSLs for cobalt at YAMW-3 (February), and lithium at YGWC-42, are horizontally delineated by PZ-55 and vertically delineated by PZ-54D.

Based on review of the Appendix III and Appendix IV statistical results for the groundwater monitoring and corrective action program from January through December 2024, the site will continue in assessment monitoring. A Draft Remedy Selection Report, which summarizes the evaluation and proposed selection of a corrective measure, or measures, was initially submitted to GAEPD on August 31, 2022 (Arcadis 2022). GAEPD provided comments on the Draft Remedy Selection Report on February 14, 2023. A revised Draft Remedy Selection Report addressing cobalt, lithium, and selenium SSLs was submitted to GAEPD on September 30, 2024 (Arcadis 2024).

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

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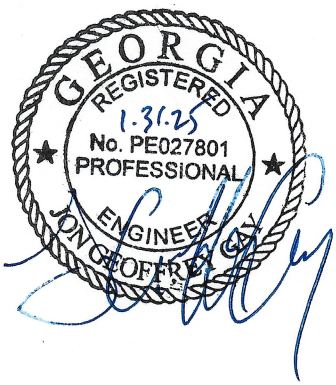
Acronyms and Abbreviations

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

Professional Certification

This 2024 Annual Groundwater Monitoring and Corrective Action Report, Plant Yates AP-3, A, B, B', and R6 CCR Landfill has been prepared in compliance with the United States Environmental Protection Agency Coal Combustion Residual Rule (40 Code of Federal Regulations [CFR] 257 Subpart D), specifically § 257.90(e), and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10 by a qualified groundwater scientist or engineer with Arcadis, U.S., Inc. I hereby certify that I am a qualified groundwater scientist, in accordance with the Georgia Rules of Solid Waste Management 391-3-4.01.

Arcadis U.S., Inc.



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Date

1 Introduction

This 2024 Annual Groundwater Monitoring and Corrective Action Report describes groundwater monitoring activities conducted at the Georgia Power Company (Georgia Power) Plant Yates Ash Ponds (AP) AP-3, A, B, B’, and R6 Landfill (the site) in February and August 2024. This report was prepared in accordance with the United States Environmental Protection Agency (USEPA) Coal Combustion Residuals (CCR) Rule (40 Code of Federal Regulations [CFR] 257 Subpart D) and the Georgia Environmental Protection Division (GAEPD) Rules for Solid Waste Management 391-3-4-.10. Groundwater monitoring requirements for the site are specified by GAEPD Rule 391-3-4-.10(6)(a), which also incorporates the USEPA CCR Rule. For ease of reference, the USEPA CCR Rule is cited within this report.

This report presents the results of February and August 2024 semiannual monitoring events for Appendix III and Appendix IV parameters of 40 CFR 257 and 391-3-4-.10(6)(c), as well as activities completed through 2024 in accordance with Rule 391-3-4-.10(6)(c).

1.1 Background

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

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

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

This 2024 Annual Groundwater Monitoring and Corrective Action Report includes combined results for assessment monitoring of AP-3, A, B, B’ and the R6 CCR Landfill.

1.2 Regional Geology and Hydrogeologic Setting

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

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

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

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

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

1.3 Groundwater Monitoring Well Network and CCR Unit Description

Pursuant to 40 CFR § 257.91, a multi-unit groundwater monitoring system was installed within the uppermost aquifer at the site. The multi-unit monitoring system is designed to monitor groundwater passing the waste boundary of the CCR units within the uppermost aquifer. Wells are located to monitor upgradient and downgradient conditions based on groundwater flow direction. The groundwater monitoring well network is summarized in **Table 1**.

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

2 Groundwater Monitoring

Pursuant to 40 CFR § 257.90(e), the following describes monitoring-related activities performed during 2024 and presents the status of the monitoring program. Groundwater sampling was performed in accordance with 40 CFR § 257.93. Samples were collected from each well in the monitoring system shown on **Figure 3**.

Groundwater sampling events conducted by Arcadis U.S., Inc. (Arcadis) in February and August 2024 at AP-3, A, B, B', and the R6 CCR Landfill are summarized in **Table 2**. Additional groundwater samples were collected from YGWC-50 in June and November. PZ-54D was also sampled in June and October. Field sampling logs are provided in **Appendix A**.

2.1 Monitoring Well Installation and Maintenance

During this reporting period, horizontal delineation well PZ-55 was installed in the upper fractured bedrock northwest of YAMW-3 and south of YGWC-43. The screened interval of PZ-55 (55 feet to 65 feet below ground surface [bgs]) generally coincides with the elevation of that for YAMW-3. The well was developed on January 29, 2024 and included in the February sampling event. Vertical delineation well PZ-54D was also installed in January 2024 and screened at 124 to 134 bgs was installed in the vicinity of YAMW-3. The water levels in PZ-54D did not recover after being pumped dry twice during the initial development efforts on January 29, 2024. Additional mechanical development occurred on May 1 -2, 2024 with a pump hoist rig where potable water was added followed by a combination of surging, pumping, and airlifting. An additional deeper piezometer PZ-56D, was installed within the same borehole as PZ-54D, screened from 185 feet to 195 feet bgs, and developed in January 2024. A well installation report for these wells was submitted under separate cover to EPD and is included in **Appendix B**. A sufficient amount of water was available in the well to collect a sample from PZ-54D on June 6, 2024 for Appendix III and IV constituents. The well was unable to be sampled during the August 2024 event due to issues with the rental bladder pump. A permanent bladder pump (QED P1101Q) was installed on October 22, 2024.

Other monitoring well-related activities included the visual inspection of well conditions prior to sampling, recording site conditions, and performing exterior maintenance to provide safe access for sampling. Monitoring wells are inspected semiannually to determine if any repairs or corrective actions are necessary to meet the requirements of the Georgia Water Well Standards Act (O.C.G.A. § 12-5-134(5)(d)(vii)). There were no well maintenance issues during this period that required corrective actions as documented in **Appendix A**.

2.2 Assessment Monitoring

An assessment monitoring program was initiated on January 14, 2018 at AP-3, B, and B' and in September 2019 for AP-A. A notice of assessment monitoring was placed in the operating record on May 15, 2018. AP-A is an inactive surface impoundment subject to the revised requirements of 40 CFR § 257.100 and was added to the multi-unit system on April 17, 2019. Assessment monitoring was initiated at the R6 CCR Landfill following review of the results of the March 2019 monitoring event. The first semiannual assessment monitoring event for the R6 CCR Landfill occurred in October 2019; a notice of assessment monitoring for the R6 CCR Landfill was placed in the operating record on November 13, 2019. AP-3, A, B, B' and the R6 CCR Landfill currently remain in assessment monitoring.

Semiannual assessment monitoring at the site for Appendix III and Appendix IV parameters was conducted in February and August 2024 pursuant to 40 CFR § 257.95(b) and CFR § 257.95(d). Groundwater sampling activities completed during the reporting period as part of semiannual assessment monitoring are summarized in **Table 2**. Downgradient monitoring well YGWC-50 was sampled for the first time in August 2023. Georgia Power has completed six of eight background sampling events.

2.3 Additional Groundwater Evaluations

Supplemental groundwater samples were collected from the detection and assessment well networks during the February 2024 event and were analyzed for major cations (calcium, magnesium, potassium, and sodium), major anions (chloride, sulfate, and alkalinity [i.e., bicarbonate, carbonate, total]), iron, and manganese. The data were collected in support of evaluating the geochemical composition of the groundwater in conjunction with the ACM activities. The laboratory reports associated with the data are provided in **Appendix C**. Sampling and analysis were performed following the procedures outlined in Section 3.

2.4 Assessment of Corrective Measures

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

A Draft Remedy Selection Report, which summarizes the evaluation and proposed selection of a corrective measure, or measures, was submitted to GAEPD on August 31, 2022 (Arcadis 2022). GAEPD provided comments on February 14, 2023. Bench-scale testing results associated with Alternative Remedy 2: In Situ Injection were submitted on October 31, 2023 as requested by GAEPD. The results demonstrated that selenium can be successfully removed from groundwater using zero valent iron (ZVI) (Arcadis 2023). A revised Draft Remedy Selection Report was submitted to GAEPD on September 30, 2024 addressing cobalt, lithium, and selenium SSLs (Arcadis 2024).

To address the SSL at the time for cobalt at YAMW-3, potential future SSL for lithium at YAMW-3, and lithium SSL at YGWC-42, horizontal delineation well PZ-55 was installed in December 2023 northwest of YAMW-3**.** A vertical delineation well PZ-54D was installed in January 2024 near YAMW-3 (**Figure 3**). Groundwater concentrations for lithium and cobalt were below the Groundwater Protection Standards (GWPS) in PZ-55 and PZ-54D when sampled in February 2024 and June 2024, respectively. The most recent sample results from PZ-55 (August 2024) and PZ-54D (November 7, 2024) remain below the GWPS.

As requested by EPD, an updated survey of water wells was conducted within a two-mile radius from the site. The survey incorporated records from federal, state, and county sources cited in the previous well survey (Arcadis 2022b; however, no information was received from the Coweta County Health Department. A current Environmental Data Resources (EDR) GeoCheck® Report is included in **Appendix D**. Additional real estate databases were searched within areas previously identified with a potential for having a well. This search indicated the possibility of additional private wells on several residential parcels upgradient of the site to the south

and east directions. The newly identified parcels likely containing potable wells (pink shaded parcels in Figure 1 of Appendix C) are adjacent to parcels previously identified as having wells. The findings are consistent with the previous well survey**.**

3 Sampling Methodology and Analysis

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

3.1 Groundwater Flow Direction, Gradient, and Velocity

Before the February and August 2024 sampling events, static water levels were recorded from piezometers and wells in the well network at AP-3, A, B, B' and the R6 CCR Landfill. Water levels were collected from the monitoring wells and piezometers as noted in **Table 3**.

Saprolite, transition zone, and shallow bedrock groundwater elevation data were used to prepare potentiometric surface elevation contour maps. Potentiometric surface maps for February and August 2024 representing the sitewide and AP-3, A, B, B' and the R6 CCR Landfill are provided on **Figures 4 through 7**. The groundwater flow direction for the saprolite, transition zone, and shallow bedrock wells is generally toward the west, northeast, and east from the area south of the R6 Landfill ash disposal area, which serves as a topographic high and groundwater recharge area. Groundwater flows west from the eastern portions of the Ash Management Area, AP-3 area, and AP-B' area to the central portion of the site. The groundwater flow direction is consistent with historical patterns and follows the topographic low between the Ash Management Area (AMA) and R6. It is interpreted that variations between saprolite/transition zone wells and deep bedrock wells are attributed to bedrock geologic structural controls, and therefore do not reflect the surficial aquifer potentiometric surface. Based on this interpretation, the deep bedrock potentiometric surface was not used for contouring.

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

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

where:
v = groundwater seepage velocity
k = hydraulic conductivity
dh/dl = hydraulic gradient
n_e = effective porosity

Groundwater flow velocities were calculated for the site based on hydraulic gradients, average hydraulic conductivity based on previous slug test data, and an estimated effective porosity of 0.20 (based on a review of several sources including Driscoll 1986, USEPA 1989, and Freeze and Cherry 1979). The calculated groundwater flow velocities for February and August 2024 are presented in **Table 4**. The calculated average linear flow velocity for February and August 2024 is 23 feet per year. The calculated groundwater velocity across the site is generally consistent with historical calculations and with expected velocities in the site-specific geology, thereby, confirming the groundwater monitoring network is properly located to monitor the uppermost aquifer.

3.2 Groundwater Sampling

Groundwater samples were collected using low-flow sampling procedures in accordance with 40 CFR § 257.93(a). Monitoring wells were purged and sampled using a dedicated bladder pump until water quality

parameters stabilized. For wells sampled with non-dedicated bladder pumps, a bladder pump or peristaltic pump was lowered into the well so that the intake was at the midpoint of the well screen (or as appropriate determined by the water level). All non-disposable equipment was decontaminated before use and between use at well locations.

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

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

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

3.3 Laboratory Analyses

Samples were submitted for laboratory analysis from each monitoring well as summarized in **Table 2**. During the February and August 2024 sampling event, the AP-3, B, B' and R6 CCR Landfill wells were sampled and analyzed for Appendix III parameters as well as for Appendix IV parameters according to 40 CFR § 257.95(b). **Table 5** provides a summary of the constituents monitored during the event. The methods used for groundwater sample analyses are listed in the analytical laboratory reports included in **Appendix C**.

Analytical data from the semiannual sampling conducted in February and August 2024 for AP-3, B, B' and R6 CCR Landfill and the upgradient wells collected in compliance with the CCR Rule and additional geochemical parameters (i.e., alkalinity, cations) collected during the February 2024 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. Laboratory reports and chain-of-custody records for the monitoring event is included in **Appendix C**.

3.4 Data Quality Assurance/Quality Control and Validation

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

have been applied to the data using USEPA procedures as guidance (USEPA 2017). The data validation report included in **Appendix C** 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 C** along with the laboratory reports.

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

4 Statistical Analysis

Statistical analysis of Appendix III and IV groundwater monitoring data obtained from the AP-3, A, B, B’, and R6 Landfill February and August 2024 assessment monitoring event was performed pursuant to 40 CFR §§ 257.93–95 following established, certified statistical methods. The statistical method for the site was developed in accordance with 40 CFR § 257.93(f) using methodology presented in Statistical Analysis of Groundwater Data at RCRA Facilities, Unified Guidance, March 2009, USEPA 530/R-09-007 (USEPA 2009).

4.1 Statistical Methods

The Sanitas™ groundwater statistical software was used to perform statistical analyses. Sanitas™ is a decision support software package that incorporates the statistical tests required of Subtitle C and D facilities by USEPA regulations and guidance as recommended in the Unified Guidance document (USEPA 2009). Although Assessment Monitoring has been implemented, statistical evaluation of Appendix III constituents is performed to determine whether constituents have returned to background conditions.

4.1.1 Appendix III Statistical Methods

Groundwater data were evaluated using interwell prediction limits for Appendix III parameters. This method uses sitewide-pooled upgradient monitoring well data to establish a background statistical limit. Data from the February and August 2024 events were compared to the statistical limit to determine whether concentrations exceeded background levels. The statistical method incorporates an optional 1-of-2 verification resample plan. When an initial statistically significant increase (SSI) or questionable result occurs, a second sample may be collected to verify the initial result or determine whether the result was an outlier. If resampling is performed and the initial finding is not verified, the resampled value replaces the initial finding. When the resample confirms the initial result, both values remain in the database and an SSI is declared. The following criteria were applied to the evaluation:

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

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

When data contained between 15 to 50 percent non-detects, the Kaplan-Meier non-detect adjustment was applied to the background data. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.

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

4.1.2 Assessment Monitoring Statistical Methods

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

The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples. The background levels are then used when determining the groundwater protection standards (GWPS) in accordance with 40 CFR § 257.95(h) and GAEPD Rule 391-3-4-.10(6)(a). USEPA revised the federal CCR Rule on July 30, 2018, updating GWPS for cobalt, lead, lithium, and molybdenum. As described in § 257.95(h)(1-3), the GWPS is defined by the below criteria. These criteria were adopted into the GA EPD Rules for Solid Waste Management 391-3-4-.10 on February 22, 2022.

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

- The maximum contaminant level (MCL) established under 40 CFR §§ 141.62 and 141.66.
- Where an MCL has not been established for the following constituents:

  Cobalt: 0.006 milligram per liter (mg/L)
  Lead: 0.015 mg/L
  Lithium: 0.040 mg/L
  Molybdenum: 0.100 mg/L; or
- The background level for constituents for which the background level is higher than the MCL or CCR Rule identified GWPS.

GWPSs have been established for statistical comparison of Appendix IV constituents at AP-3, A, B, B', and the R6 CCR Landfill. **Table 7** summarizes the background limits established for each monitoring well for the February and August 2024 sampling events as well as the GWPS.

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

4.2 Statistical Analysis Results

Appendix III statistical analysis for wells associated with the site was performed to determine whether constituent concentrations have returned to background levels. Appendix IV assessment monitoring parameters were evaluated for AP-3, A, B, B,' and the R6 CCR Landfill to determine whether concentrations statistically exceed the established GWPSs. Appendix IV analytical data from the February and August 2024 semiannual assessment monitoring events for the combined AP-3, A, B, B’, and R6 CCR Landfill were statistically analyzed in accordance with the Statistical Analysis Plan (Groundwater Stats Consulting 2019).

4.2.1 Appendix III Monitoring Constituents

Based on review of the Appendix III statistical analysis from the February and August 2024 sampling events presented in **Appendix D**, Appendix III constituents have not returned to background levels; therefore, assessment monitoring should continue pursuant to 40 CFR § 257.95(f). **Appendix D** includes a table summarizing site monitoring wells for which analytical sampling results have identified constituents with SSIs from the semiannual event.

4.2.2 Appendix IV Assessment Monitoring Constituents

Statistical analysis of the February 2024 Appendix IV data was completed using the GWPSs established according to 40 CFR § 257.95(h) and GAEPD Rule 391-3-4-.10(6)(a). The following SSLs were identified:

- Selenium: YGWC-38 (February) and PZ-37 (February, August)
- Cobalt: YAMW-3 (February)
- Lithium: YAMW-42 (February, August)

Monitoring wells YGWC-33S, YGWC-38, and YGWC-41 exhibited SSLs in the past that are no longer present at the site, as they were abandoned due to construction inside the permitted units.

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

Decreasing trends:

- Selenium: YGWC-38 (February) and PZ-37 (February and August)
- Cobalt: YAMW-30I, YGWA-39, YGWA-47 from February

YGWC-42 is the only downgradient well with an SSL that exhibits an increasing trend. Sanitas™ statistical output data for calculation of site-specific background concentrations (interwell tolerance limits) and confidence intervals for each Appendix IV constituent in downgradient wells are provided in **Appendix E**. Isoconcentration maps from February (Selenium, Cobalt, and Lithium) and August 2024 (Selenium, Lithium) are provided on **Figures 8 and 9**, respectively.

5 Monitoring Program Status

5.1 Assessment Monitoring Status

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

5.2 Remedy Selection Status

Cobalt exhibited an SSL at YAMW-3 based on data from the Augusta 2023 and February 2024 sampling events but did not from the August 2024 event. Lithium exhibited an SSL at YGWC-42 based on the February and August 2024 events. Horizontal and vertical delineation of cobalt and lithium was initiated in December 2023 and is complete as described in **Sections 2.1 and 2.4** and the data provided in **Table 6a**. A revised Draft Remedy Selection Report was submitted to GAEPD on September 30, 2024 and included the following:

- The current groundwater conceptual site model applicable to evaluating groundwater corrective measures proposed in the ACM Report (ACC 2019);
- An assessment of corrective action investigations completed to date;
- An evaluation of each corrective measure retained for further consideration following the completed investigations; and
- A comparison of corrective measure options using the comparative criteria such as long- and short-term effectiveness and protectiveness, source control effectiveness, and ease of implementation.

The Draft Remedy Selection Report proposed Monitored Natural Attenuation (MNA) as the selected remedy for selenium, cobalt, and lithium. Concentrations of cobalt and lithium are stable; however, additional sampling events proposed over a five-year period will aid in understanding how concentrations respond to the closure of the R6 CCR Landfill. In support of Alternative Remedy No. 2: In Situ Injection, additional bench-scale treatability testing was completed for selenium, lithium, and cobalt; the results of the studies are presented in the revised Draft Remedy Selection Report (Arcadis 2024). This alternative remedy would only be implemented if any of the following scenarios are met:

- Selenium concentrations in groundwater at specific locations exhibit an increasing trend not originally predicted during remedy selection;
- Lithium and/or cobalt concentrations are not decreasing after 10 semiannual sampling events (5 years);
- Near-source wells exhibit large concentration increases indicative of a new or renewed release;
- Selenium is identified above the GWPS in monitoring wells located outside of the original plume boundary;
- Selenium concentrations are not decreasing at a sufficiently rapid rate to meet the remediation objectives;
- Changes in land and/or groundwater use will adversely affect the protectiveness of the MNA remedy.

The site continues to meet the conditions supporting the selected MNA remedy for selenium, cobalt, and lithium.

6 Conclusions and Recommendations

This 2024 Annual Groundwater Monitoring and Corrective Action Report was prepared to fulfill the requirements of USEPA's 40 CFR §257.95 and GAEPD's Rule 391-3-4-.10. The groundwater flow direction interpreted during this event is consistent with historical evaluations. Statistical evaluations of groundwater monitoring data for the combined monitoring unit AP-3, A, B, B', and the R6 Landfill identified SSLs of selenium in well YGWC-38 and well PZ-37. An SSL of cobalt was initially identified at well YAMW-3 in August 2023. An SSL of lithium was identified at well YGWC-42 based on the February 2024 data. Delineation concentration data for the selenium, cobalt, and lithium SSLs provide spatial and vertical delineation to concentrations below the GWPSs.

Assessment monitoring at AP-3, A, B, B', and the R6 CCR Landfill will continue pursuant to 40 CFR § 257.95. In addition, ACM efforts of the multi-unit site will continue as required by 40 CFR § 257.96. The next assessment monitoring event is scheduled for February 2025. The February semiannual monitoring event will be a combined event to meet the requirements of GAEPD Rule 391-3-4-.10(6) and 40 CFR §§ 257.95(b) and (d)(1) and will include sampling and analysis of all Appendix III and IV constituents.

7 References

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Tables

Table 1
Monitoring Network Well Summary
2024 Annual Groundwater Monitoring and Corrective Action Report
Plant Yates - AP-3, A, B, B' and R6 CCR Landfill

Well ID	Well Designation	Location	Northing	Easting	Ground Surface Elevation (ft)	Top of Casing Elevation (ft)	Top of Screen Elevation (ft)	Bottom of Screen Elevation (ft)	Total Well Depth (ft bTOC)	Groundwater Zone Screened	Installation Date
YGWA-4I	Detection	Upgradient	1254436.68	2075455.62	781.9	784.21	745.70	735.70	48.81	PWR/Transition Zone	5/21/2014
YGWA-5I	Detection	Upgradient	1254399.95	2076218.86	782.1	784.54	735.90	725.90	58.94	PWR/Transition Zone	5/21/2014
YGWA-5D	Detection	Upgradient	1254396.67	2076223.63	781.9	784.53	705.70	655.70	129.13	Deep Bedrock	5/21/2014
YGWA-17S	Detection	Upgradient	1257602.79	2076758.31	780.2	783.05	753.20	743.20	39.85	Saprolite	9/10/2015
YGWA-18S	Detection	Upgradient	1257116.05	2077015.25	787.6	790.57	760.90	750.90	39.97	Saprolite	9/8/2015
YGWA-18I	Detection	Upgradient	1257090.05	2077015.82	787.6	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	749.20	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	702.90	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	Detection	Upgradient	1261383.11	2073509.98	803.1	805.62	763.80	753.80	52.02	Bedrock	4/12/2007
YGWC-23S	Detection	Downgradient	1256366.93	2074734.07	762.0	764.91	733.39	723.39	38.91	Saprolite	09/21/2015
YGWC-24SB	Detection	Downgradient	1258938.45	2073965.94	761.6	764.89	713.81	703.81	57.79	Saprolite	10/13/2022
YGWC-36A	Detection	Downgradient	1258547.74	2073748.73	737.7	740.88	696.52	686.52	51.20	Saprolite	09/22/2020
YGWC-38	Detection	Downgradient	1256108.38	2074446.80	797.1	799.69	757.51	747.51	49.89	Upper Fractured Bedrock	07/23/2016
YGWC-41	Detection	Downgradient	1256510.62	2073274.41	801.1	803.92	744.28	734.28	67.12	Upper Fractured Bedrock	07/08/2016
YGWC-42	Detection	Downgradient	1256882.87	2073326.52	795.1	797.86	745.74	735.74	59.76	Upper Fractured Bedrock	07/08/2016
YGWC-43	Detection	Downgradient	1257547.41	2073199.65	742.3	744.96	673.14	663.14	78.46	Upper Fractured Bedrock	07/09/2016
YGWC-49	Detection	Downgradient	1259375.23	2074337.51	780.1	782.73	712.47	702.47	78.53	PWR/Transition Zone	07/13/2016
YGWC-50	Detection	Downgradient	1258123.39	2073321.00	726.5	729.78	698.78	688.78	39.28	Saprolite	10/14/2022
PZ-35	Assessment	Downgradient	1258593.16	2073805.60	740.9	743.81	701.99	691.99	49.21	Saprolite/PWR	07/20/2016
PZ-37D	Assessment	Downgradient	1256478.32	2074688.08	758.8	761.12	566.5	556.48	202.30	Deep Bedrock	04/16/2021
PZ-52D	Assessment	Downgradient	1256463.09	2074676.14	759.9	762.79	675.01	665.01	94.89	Deep Bedrock	09/28/2021
PZ-54D	Assessment	Downgradient	1256904.08	2073369.06	792.5	795.56	665.44	655.44	137.36	Deep Bedrock	01/22/2024
PZ-55	Assessment	Downgradient	1257131.73	2073193.74	771.3	774.02	713.58	703.58	68.02	Upper Fractured Bedrock	12/16/2023
YAMW-1	Assessment	Downgradient	1258602.12	2073814.55	740.9	743.83	680.97	670.97	72.93	Upper Fractured Bedrock	09/19/2018
YAMW-2	Assessment	Downgradient	1256780.59	2072924.89	777.9	781.04	741.42	731.42	46.78	Deep Bedrock	11/12/2019
YAMW-3	Assessment	Downgradient	1256915.25	2073345.21	793.2	796.05	711.76	701.76	91.74	Deep Bedrock	11/06/2019
YAMW-4	Assessment	Downgradient	1256532.64	2073280.71	802.6	805.59	716.05	706.05	96.85	Deep Bedrock	11/07/2019
YAMW-5	Assessment	Downgradient	1256140.21	2074486.69	785.9	788.90	705.56	695.56	90.64	Deep Bedrock	11/13/2019
PZ-04S	Piezometer	Downgradient	1254442.86	2075454.20	781.8	784.25	759.35	749.35	32.75	Saprolite	05/21/2014
PZ-05S	Piezometer	Downgradient	1254404.42	2076211.43	782.2	784.64	750.56	740.56	41.94	Saprolite	05/21/2014
PZ-06D	Piezometer	Downgradient	1260480.15	2074782.68	779.5	782.02	695.78	645.78	134.02	Deep Bedrock	05/19/2014
PZ-24IB	Piezometer	Downgradient	1258927.49	2073952.22	761.9	764.92	698.88	688.88	73.42	Transition Zone/Upper Fractured Bedrock	10/11/2022
PZ-37	Piezometer	Downgradient	1256471.14	2074699.59	758.0	760.78	718.72	708.72	49.78	Upper Fractured Bedrock	07/06/2016
PZ-48	Piezometer	Downgradient	1259868.04	2074528.00	777.2	779.83	728.77	718.77	58.73	Upper Fractured Bedrock	07/11/2016
PZ-51	Piezometer	Downgradient	1257595.80	2073182.55	741.3	744.30	714.98	704.98	36.32	Upper Fractured Bedrock	11/08/2019
PZ-53D	Piezometer	Downgradient	1256463.09	2074676.14	759.9	762.80	607.00	597.00	162.90	Deep Bedrock	09/28/2021
YGWA-6I	Piezometer	Downgradient	1260490.02	2074790.49	780.2	782.73	721.47	711.47	69.03	Upper Fractured Bedrock	05/19/2014
YGWA-6S	Piezometer	Upgradient	1260484.87	2074786.49	779.8	782.47	750.23	740.23	39.87	Saprolite	05/19/2014
PZ-56D	Piezometer	Downgradient	1256904.08	2073369.06	792.5	795.56	607.50	597.50	198.36	Deep Bedrock	1/22/2024

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

Northing and Easting Georgia State Plane West, NAD83

Acronyms and Abbreviations:
bTOC = below top of casing

ft = feet

PWR = Partially Weathered Rock

Table 2
Groundwater Sampling Plan
2024 Annual Groundwater Monitoring and Corrective Action Report
Plant Yates - AP-3, A, B, B' and R6 CCR Landfill

Well ID	Hydraulic Location	Semiannual Monitoring [1] February 20 - 23, 2024	Semiannual Monitoring [1] August 20 - 23, 2024
AP-3, A, B and B'			
YGWA-4I	Upgradient	X	X
YGWA-5I	Upgradient	X	X
YGWA-5D	Upgradient	X	X
YGWA-17S	Upgradient	X	X
YGWA-18S	Upgradient	X	X
YGWA-18I	Upgradient	X	X
YGWA-20S	Upgradient	X	X
YGWA-21I	Upgradient	X	X
YGWA-47	Upgradient [2]	X	X
GWA-2	Upgradient [2]	X	X
YGWA-1I	Upgradient [2]	X	X
YGWA-1D	Upgradient [2]	X	X
YGWA-2I	Upgradient [2]	X	X
YGWA-3I	Upgradient [2]	X	X
YGWA-3D	Upgradient [2]	X	X
YGWA-14S	Upgradient [2]	X	X
YGWA-30I	Upgradient [2]	X	X
YGWC-23S	Downgradient	X	X
YGWC-36A	Downgradient	X	X
YGWC-49	Downgradient	X	X
YAMW-1	Downgradient	X	X
PZ-35	Downgradient	X	X
R6 CCR Landfill			
YGWA-39	Upgradient	X	X
YGWA-40	Upgradient	X	X
YGWC-38	Downgradient	X	X
YGWC-41	Downgradient	X	X
YGWC-42	Downgradient	X	X
YGWC-43	Downgradient	X	X
YAMW-2	Downgradient	X	X
YAMW-3	Downgradient	X	X
YAMW-4	Downgradient	X	X
YAMW-5	Downgradient	X	X
PZ-37	Downgradient	X	X
PZ-37D	Downgradient	X	X
PZ-51	Downgradient	X	X
PZ-52D	Downgradient	X	X
YGWC-50 [4]	Downgradient	X	X
PZ-55	Downgradient	X	X
PZ-54D [3]	Downgradient	X	X

Notes:

1. All wells analyzed for Appendix III and Appendix IV.
2. Wells from other units comprising sitewide pooled upgradient network.
3. Sampled June 12, 2024 following additional development on May 1-2, 2024, and on November 7, 2024.
4. Also sampled on June 10, 2024 and November 26, 2024.

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 3a
Summary of Groundwater Elevations - February 2024
2024 Annual Groundwater Monitoring and Corrective Action Report
Plant Yates - AP-3, A, B, B' and R6 CCR Landfill

Well ID	Date	TOC Elevation (ft)	Depth to Water (ft bTOC)	Groundwater Elevation (ft)
Downgradient Wells - February 2024				
YGWC-23S	2/19/2024	764.95	16.59	748.36
YGWC-24SB	2/19/2024	765.00	27.64	737.36
YGWC-36A	2/19/2024	739.61	9.75	729.86
YGWC-38	2/19/2024	799.69	31.91	767.78
YGWC-41	2/19/2024	803.92	30.40	773.52
YGWC-42	2/19/2024	797.86	29.96	767.90
YGWC-43	2/19/2024	744.96	19.82	725.14
YGWC-49	2/19/2024	782.73	34.10	748.63
YGWC-50	2/19/2024	729.78	7.69	722.09
PZ-35	2/19/2024	743.81	10.82	732.99
PZ-04S	2/19/2024	784.25	26.62	757.63
PZ-05S	2/19/2024	784.64	20.99	763.65
YGWA-6S	2/19/2024	782.47	22.02	760.45
YGWA-6I	2/19/2024	782.73	22.02	760.71
PZ-06D	2/19/2024	782.02	24.74	757.28
PZ-24IB	2/19/2024	764.92	28.06	736.86
PZ-37	2/19/2024	760.78	11.54	749.24
PZ-37D	2/19/2024	761.12	3.36	757.76
PZ-48	2/19/2024	779.83	23.31	756.52
PZ-51	2/19/2024	744.30	10.52	733.78
PZ-52D	2/19/2024	762.79	6.53	756.26
PZ-53D	2/19/2024	762.80	4.96	757.84
PZ-54D	2/19/2024	795.56	128.92	666.64
PZ-56D	2/19/2024	795.56	44.95	750.61
PZ-55	2/19/2024	774.02	31.50	742.52
YAMW-1	2/19/2024	743.83	10.66	733.17
YAMW-2	2/19/2024	781.04	24.95	756.09
YAMW-3	2/19/2024	796.05	38.96	757.09
YAMW-4	2/19/2024	805.59	34.13	771.46
YAMW-5	2/19/2024	788.90	16.54	772.36
Upgradient Wells - February 2024				
YGWA-4I	2/19/2024	784.21	25.20	759.01
YGWA-5I	2/19/2024	784.54	21.00	763.54
YGWA-5D	2/19/2024	784.53	20.07	764.46
YGWA-17S	2/19/2024	783.05	12.21	770.84
YGWA-18S	2/19/2024	790.57	22.11	768.46
YGWA-18I	2/19/2024	790.57	24.78	765.79
YGWA-20S	2/19/2024	767.12	11.25	755.87
YGWA-21I	2/19/2024	783.70	31.61	752.09
YGWA-39	2/19/2024	818.19	21.03	797.16
YGWA-40	2/19/2024	815.73	24.99	790.74
YGWA-1I	2/19/2024	836.60	39.56	797.04
YGWA-1D	2/19/2024	837.25	51.10	786.15
YGWA-2I	2/19/2024	866.25	46.92	819.33
YGWA-3I	2/19/2024	796.55	52.41	744.14
YGWA-3D	2/19/2024	796.78	33.15	763.63
YGWA-14S	2/19/2024	748.76	18.53	730.23
YGWA-30I	2/19/2024	762.58	45.23	717.35
YGWA-47	2/19/2024	758.22	36.25	721.97
GWA-2	2/19/2024	805.62	38.11	767.51

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 3b
Summary of Groundwater Elevations - August 2024
2024 Annual Groundwater Monitoring and Corrective Action Report
Plant Yates - AP-3, A, B, B' and R6 CCR Landfill

Well ID	Date	TOC Elevation (ft)	Depth to Water (ft bTOC)	Groundwater Elevation (ft)
Downgradient Wells - August 2024				
YGWC-23S	8/19/2024	764.95	16.65	748.30
YGWC-24SB	8/19/2024	765.00	25.49	739.51
YGWC-36A	8/19/2024	739.61	7.72	731.89
YGWC-38	8/19/2024	799.69	30.18	769.51
YGWC-41	8/19/2024	803.92	29.33	774.59
YGWC-42	8/19/2024	797.86	29.34	768.52
YGWC-43	8/19/2024	744.96	17.12	727.84
YGWC-49	8/19/2024	782.73	32.84	749.89
YGWC-50	8/19/2024	729.78	5.72	724.06
PZ-35	8/19/2024	743.81	8.72	735.09
PZ-04S	8/19/2024	784.25	26.14	758.11
PZ-05S	8/19/2024	784.64	20.45	764.19
YGWA-6S	8/19/2024	782.47	21.02	761.45
YGWA-6I	8/19/2024	782.73	21.25	761.48
PZ-06D	8/19/2024	782.02	23.69	758.33
PZ-24IB	8/19/2024	764.92	25.87	739.05
PZ-37	8/19/2024	760.78	10.80	749.98
PZ-37D	8/19/2024	761.12	2.85	758.27
PZ-48	8/19/2024	779.83	22.56	757.27
PZ-51	8/19/2024	744.30	7.90	736.40
PZ-52D	8/19/2024	762.79	6.37	756.42
PZ-53D	8/19/2024	762.80	4.53	758.27
PZ-54D	8/19/2024	795.56	103.82	691.74
PZ-56D	8/19/2024	795.56	43.13	752.43
PZ-55	8/19/2024	774.02	28.55	745.47
YAMW-1	8/19/2024	743.83	8.58	735.25
YAMW-2	8/19/2024	781.04	24.20	756.84
YAMW-3	8/19/2024	796.05	37.43	758.62
YAMW-4	8/19/2024	805.59	33.14	772.45
YAMW-5	8/19/2024	788.90	15.57	773.33
Upgradient Wells - August 2024				
YGWA-4I	8/19/2024	784.21	24.73	759.48
YGWA-5I	8/19/2024	784.54	20.48	764.06
YGWA-5D	8/19/2024	784.53	20.47	764.06
YGWA-17S	8/19/2024	783.05	13.55	769.50
YGWA-18S	8/19/2024	790.57	21.67	768.90
YGWA-18I	8/19/2024	790.57	24.75	765.82
YGWA-20S	8/19/2024	767.12	11.80	755.32
YGWA-21I	8/19/2024	783.70	31.88	751.82
YGWA-39	8/19/2024	818.19	19.63	798.56
YGWA-40	8/19/2024	815.73	24.92	790.81
YGWA-1I	8/19/2024	836.60	38.46	798.14
YGWA-1D	8/19/2024	837.25	50.88	786.37
YGWA-2I	8/19/2024	866.25	45.81	820.44
YGWA-3I	8/19/2024	796.55	53.09	743.46
YGWA-3D	8/19/2024	796.78	33.15	763.63
YGWA-14S	8/19/2024	748.76	17.10	731.66
YGWA-30I	8/19/2024	762.58	43.27	719.31
YGWA-47	8/19/2024	758.22	34.93	723.29
GWA-2	8/19/2024	805.62	NM	NM

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

Acronyms and Abbreviations:
NM = Not Measured
bTOC = below top of casing
ft = feet
TOC = top of casing

Equation

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

where:

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

Values Used in Calculation

Value			Source
K_{max}:	3.70E-03	cm/sec	See note 1
	10	ft/day	
K_{min}:	9.70E-05	cm/sec	
	0.28	ft/day	
K_{avg}:	2.90E-04	cm/sec	
	0.8	ft/day	
Distance from:			
YGWA-40 to YGWA-42	1,098	feet	
YGWC-49 to PZ-24IB	1,002	feet	
YGWC-6S to PZ-35	1,002	feet	
Groundwater Elevation			Date Collected:
YGWA-40	790.74	feet	February 2024
YGWC-42	767.90		
YGWC-49	748.63		
PZ-24IB	736.86		
			Hydraulic gradient from:
	i_1 = 0.021	unitless	YGWA-40 to YGWC-42 (Feb. 2024)
	i_2 = 0.012	unitless	YGWC-49 to PZ-24IB (Feb. 2024)
	i_{avg} = 0.016	unitless	Average
Groundwater Elevation			Date Collected:
YGWA-40	790.81	feet	August 2024
YGWC-42	768.52		
YGWC-49	749.89		
PZ-24IB	739.05		
			Hydraulic gradient from:
	i_1 = 0.020	unitless	YGWA-40 to YGWC-42 (Aug. 2024)
	i_2 = 0.011	unitless	YGWC-49 to PZ-24IB (Aug. 2024)
	i_{avg} = 0.016	unitless	Average
	n_e = 0.20	unitless	See note 2

Table 4
Groundwater Flow Velocity Calculations - February and August 2024
2024 Annual Groundwater Monitoring and Corrective Action Report
Plant Yates - AP-3, A, B, B' and R6 CCR Landfill

Minimum Linear Flow Velocity *February 2024* $V_{min} = \frac{(0.28)\ (0.016)}{0.20}$ V_{min} = 0.02 ft/day, or 8.2 ft/year	Minimum Linear Flow Velocity *August 2024* $V_{min} = \frac{(0.28)\ (0.016)}{0.20}$ V_{max} = 0.02 ft/day, or 8.2 ft/year
Maximum Linear Flow Velocity *February 2024* $V_{max} = \frac{(10)\ (0.016)}{0.20}$ V_{max} = 0.8 ft/day, or 292 ft/year	Maximum Linear Flow Velocity *August 2024* $V_{max} = \frac{(10)\ (0.016)}{0.20}$ V_{max} = 0.8 ft/day, or 292 ft/year
Average Linear Flow Velocity *February 2024* $V_{avg} = \frac{(0.8)(0.016)}{0.20}$ Vavg = 0.06 ft/day, or 23 ft/year	Average Linear Flow Velocity *August 2024* $V_{avg} = \frac{(0.8)(0.016)}{0.20}$ Vavg = 0.06 ft/day, or 23 ft/year

Notes:

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

Table 5
Summary of Groundwater Monitoring Parameters
2024 Annual Groundwater Monitoring and Corrective Action Report
Plant Yates - A-3, A, B, B' and R6 CCR Landfill

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

Notes:

CFR = Code of Federal Regulations

Table 6a
Groundwater Analytical Data - February and August 2024
2024 Annual Groundwater Monitoring and Corrective Action Report
Plant Yates - A-3, A, B, B' and R6 CCR Landfill

Analyte	Units	PZ-35 2/23/2024	PZ-35 8/22/2024	PZ-37 2/21/2024	PZ-37 8/21/2024	PZ-37D 2/21/2024	PZ-37D 8/21/2024	PZ-51 2/22/2024	PZ-51 8/22/2024	PZ-52D 2/21/2024	PZ-52D 8/21/2024	PZ-54D 6/12/2024	PZ-54D 11/7/2024	PZ-55 2/22/2024	PZ-55 8/21/2024	YAMW-1 2/23/2024	YAMW-1 8/22/2024
Appendix III																	
pH	SU	5.24	5.13	5.12	5.24	8.17	8.17	4.90	4.81	5.98	6.17	NA	5.72	5.69	6.47	5.50	5.44
Boron	mg/l	0.2	0.15	7.8	7.6	0.57	0.96	6.4	7.6	1.6	1.9	2.8	1.8	3.5	3.1	1.5	2.3
Calcium	mg/l	31.1	22.8	103	111	65.9	86.6	54.8	57.2	24.5	26.7	38.4	60.6	22.5	23.4	46.3	52.9
Chloride	mg/l	4.8	5.0	4.5	5.3	18.9	24.0	4.3	4.5	1.6	1.6	2.8	5.5	4.7	4.6	5.2	5.7
Fluoride	mg/l	< 0.050	< 0.050	< 0.050	< 0.050	0.21	0.25	0.14	0.17	0.053 J	< 0.050	0.39	0.090 J	0.065 J	< 0.050	< 0.050	< 0.050
Sulfate	mg/l	148	109	462	441	222	320	309	309	309	305	177	174	139	128	237	279
Total Dissolved Solids	mg/l	299	267	834	834	548	728	556	601	557	599	775	643	297	292	454	548
Appendix IV																	
Antimony	mg/l	< 0.00054	< 0.00054	< 0.00054	0.0085	< 0.00054	0.0013 J	< 0.00054	< 0.00054	< 0.00054	0.00081 J	0.0013 J	0.00082 J	< 0.00054	< 0.00054	0.0023 J	< 0.00054
Arsenic	mg/l	< 0.00084	0.0014 J	0.0023 J	0.0037 J	0.0014 J	0.0038 J	< 0.00084	0.0017 J	0.0013 J	0.0055	0.012	0.0015 J	< 0.00084	< 0.00084	< 0.00084	0.00093 J
Barium	mg/l	0.21	0.15	0.021	0.022	0.02	0.028	0.015	0.014	0.0091	0.0079	0.92	0.042	0.045	0.042	0.087	0.086
Beryllium	mg/l	0.0015	0.00095	0.0012	0.0011	< 0.000094	< 0.000094	0.0029	0.0032	< 0.000094	< 0.000094	0.0033	0.00014 J	< 0.000094	< 0.000094	0.00015 J	0.000095 J
Cadmium	mg/l	0.00027 J	0.00021 J	0.00086	0.00081	< 0.00010	< 0.00010	0.0017	0.0017	< 0.00010	< 0.00010	0.00042 J	0.00038 J	0.00069	0.00081	0.00023 J	0.00018 J
Chromium	mg/l	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	0.011	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019
Cobalt	mg/l	< 0.00032	< 0.00032	0.0017 J	0.0037 J	< 0.00032	< 0.00032	0.0051	0.0048 J	0.0029 J	0.0024 J	0.0033 J	0.0040 J	0.0041 J	0.0018 J	0.0044 J	0.0018 J
Fluoride	mg/l	< 0.050	< 0.050	< 0.050	< 0.050	0.21	0.25	0.14	0.17	0.053 J	< 0.050	0.39	0.090 J	0.065 J	< 0.050	< 0.050	< 0.050
Lead	mg/l	< 0.00016	0.0014	< 0.00016	0.00020 J	< 0.00016	< 0.00016	< 0.00016	0.00019 J	< 0.00016	< 0.00016	0.047	0.00063 J	< 0.00016	< 0.00016	< 0.00016	< 0.00016
Lithium	mg/l	0.0032 J	0.0028 J	0.015 J	0.017 J	0.0090 J	0.0068 J	0.0050 J	0.0053 J	0.027 J	0.029 J	0.022 J	0.027 J	0.0034 J	0.0030 J	0.017 J	0.016 J
Mercury	mg/l	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	0.00014 J
Molybdenum	mg/l	< 0.00062	< 0.00062	< 0.00062	< 0.00062	0.0040 J	0.0080 J	< 0.00062	< 0.00062	0.0025 J	0.0021 J	0.064	0.017	0.00082 J	0.0016 J	< 0.00062	< 0.00062
Combined Radium - 226/228	pCi/l	0.824 U	0.858 U	0.789 U	0.763 U	1.78	3.19	0.894 U	0.966	0.689 U	0.998 U	4.88	0.391U	1.18 U	0.206 U	0.566 U	0.386 U
Selenium	mg/l	0.0035 J	0.0038 J	0.13	0.12	< 0.00096	< 0.00096	0.024	0.022	0.0099	0.010	0.0056	< 0.00096	0.019	0.022	0.0056	0.0079
Thallium	mg/l	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	0.00038 J	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038
Other Parameters																	
Alkalinity, Bicarbonate	mg/L as $CaCO_3$	6.7	NA	16	NA	125	NA	< 5.0	NA	28.2	NA	NA	NA	27	NA	20.9	NA
Alkalinity, Carbonate	mg/L as $CaCO_3$	6.7	NA	16	NA	125	NA	< 5.0	NA	28.2	NA	NA	NA	27	NA	20.9	NA
Alkalinity	mg/L as $CaCO_3$	19.2	NA	28.2	NA	87.5	NA	17.7	NA	42.9	NA	NA	NA	18.2	NA	24	NA
Magnesium	mg/L	< 5.0	NA	< 5.0	NA	< 5.0	NA	< 5.0	NA	< 5.0	NA	NA	NA	< 5.0	NA	< 5.0	NA
Potassium	mg/L	16.6	NA	56.4	NA	11.4	NA	47.6	NA	52.2	NA	NA	NA	21	NA	36.5	NA
Sodium	mg/L	2.4	NA	5.0	NA	7.6	NA	4.5	NA	8.7	NA	NA	NA	4.5	NA	7.6	NA

Notes:

Analytical results are reported in milligrams per liter except for

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

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

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

NA = Not Analyzed

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

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

U: the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualifited by the laboratory as estimated.

Table 6a
Groundwater Analytical Data - February and August 2024
2024 Annual Groundwater Monitoring and Corrective Action Report
Plant Yates - A-3, A, B, B' and R6 CCR Landfill

Analyte	Units	YAMW-2 2/22/2024	YAMW-2 8/21/2024	YAMW-3 2/21/2024	YAMW-3 8/22/2024	YAMW-4 2/22/2024	YAMW-4 8/23/2024	YAMW-5 2/22/2024	YAMW-5 8/23/2024	YGWA-4I 2/20/2024	YGWA-4I 8/20/2024	YGWA-5D 2/20/2024	YGWA-5D 8/20/2024	YGWA-5I 2/20/2024	YGWA-5I 8/20/2024	YGWA-17S 2/20/2024	YGWA-17S 8/20/2024
Appendix III																	
pH	SU	5.42	5.50	5.65	5.74	5.99	5.92	5.41	5.28	6.21	6.03	7.56	7.30	5.78	5.58	5.64	5.45
Boron	mg/l	0.019 J	0.034 J	8.6	9.6	3.8	4.2	6.7	8.6	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Calcium	mg/l	1.2	1.4	39.7	48.6	14.4	14.4	52.7	59.0	9.9	9.1	27.2	29.1	2.7	3.2	3.2	3.5
Chloride	mg/l	2.3	2.4	3.5	4.4	1.5	1.8	3.7	3.8	4.6	5.2	3.2	3.4	4.8	4.8	12.2	12.7
Fluoride	mg/l	0.050 J	< 0.050	0.066 J	0.075 J	0.061 J	0.071 J	< 0.050	0.050 J	0.059 J	< 0.050	0.076 J	0.058 J	< 0.050	< 0.050	< 0.050	< 0.050
Sulfate	mg/l	6.2	7.3	386	371	208	193	369	367	8.5	8.7	5.1	4.3	2.5	2.6	4.6	4.6
Total Dissolved Solids	mg/l	55	94.0	753	742	424	415	681	699	140	128	639	212	137	108	77	86.0
Appendix IV																	
Antimony	mg/l	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	0.0013 J	< 0.00054	< 0.00054	0.00061 J	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054
Arsenic	mg/l	< 0.00084	< 0.00084	0.0015 J	0.0022 J	0.0010 J	0.0024 J	0.0011 J	0.0025 J	< 0.00084	< 0.00084	0.0030 J	0.0012 J	< 0.00084	< 0.00084	< 0.00084	< 0.00084
Barium	mg/l	0.0068	0.0089	0.032	0.031	0.0030 J	0.0031 J	0.035	0.035	0.014	0.012	0.0078	0.0066	0.019	0.018	0.017	0.016
Beryllium	mg/l	< 0.000094	< 0.000094	0.00019 J	0.00012 J	< 0.000094	< 0.000094	0.00013 J	0.00012 J	< 0.000094	< 0.000094	< 0.000094	< 0.000094	< 0.000094	< 0.000094	0.00010 J	0.00010 J
Cadmium	mg/l	< 0.00010	< 0.00010	0.00035 J	0.00025 J	< 0.00010	< 0.00010	0.00022 J	0.00023 J	< 0.00010	0.00019 J	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010
Chromium	mg/l	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019
Cobalt	mg/l	0.00044 J	0.0023 J	0.051	0.035	< 0.00032	< 0.00032	< 0.00032	< 0.00032	< 0.00032	< 0.00032	< 0.00032	< 0.00032	< 0.00032	< 0.00032	< 0.00032	< 0.00032
Fluoride	mg/l	0.050 J	< 0.050	0.066 J	0.075 J	0.061 J	0.071 J	< 0.050	0.050 J	0.059 J	< 0.050	0.076 J	0.058 J	< 0.050	< 0.050	< 0.050	< 0.050
Lead	mg/l	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016
Lithium	mg/l	< 0.0016	< 0.0016	0.047	0.048	0.036	0.035	0.014 J	0.014 J	0.014 J	0.011 J	0.0056 J	0.0024 J	0.0033 J	0.0031 J	< 0.0016	< 0.0016
Mercury	mg/l	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
Molybdenum	mg/l	< 0.00062	0.0017 J	0.0041 J	0.0047 J	0.0071 J	0.0074 J	< 0.00062	< 0.00062	< 0.00062	< 0.00062	0.0010 J	0.00074 J	< 0.00062	< 0.00062	< 0.00062	< 0.00062
Combined Radium - 226/228	pCi/l	0.463 U	0.465 U	0.973 U	1.47	0.196 U	0.445 U	0.606 U	0.826 U	1.10 U	1.18	2.8	3.02	0.630 U	0.695 U	0.0387 U	0.554 U
Selenium	mg/l	< 0.00096	0.0012 J	0.023	0.028	0.015	0.014	0.053	0.054	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096
Thallium	mg/l	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038
Other Parameters																	
Alkalinity, Bicarbonate	mg/L as $CaCO_3$	15.9	NA	41	NA	57.9	NA	14.3	NA	56	NA	103	NA	25.3	NA	14.5	NA
Alkalinity, Carbonate	mg/L as $CaCO_3$	15.9	NA	41	NA	57.9	NA	14.3	NA	56	NA	103	NA	25.3	NA	14.5	NA
Alkalinity	mg/L as $CaCO_3$	7.2	NA	42	NA	29.3	NA	41.2	NA	10.1	NA	9.5	NA	10.5	NA	15	NA
Magnesium	mg/L	< 5.0	NA	< 5.0	NA	< 5.0	NA	< 5.0	NA	< 5.0	NA	< 5.0	NA	< 5.0	NA	< 5.0	NA
Potassium	mg/L	2.2	NA	68.9	NA	48.3	NA	50.9	NA	5.5	NA	4.5	NA	2.7	NA	1.1	NA
Sodium	mg/L	0.62	NA	12.7	NA	7.0	NA	7.8	NA	4.0	NA	3.5	NA	1.5	NA	0.36 J	NA

Notes:
Analytical results are reported in milligrams per liter except for

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

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

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

NA = Not Analyzed

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

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

U: the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualifited by the laboratory as estimated.

Table 6a
Groundwater Analytical Data - February and August 2024
2024 Annual Groundwater Monitoring and Corrective Action Report
Plant Yates - A-3, A, B, B' and R6 CCR Landfill

Analyte	Units	YGWA-18I 2/20/2024	YGWA-18I 8/20/2024	YGWA-18S 2/23/2024	YGWA-18S 8/21/2024	YGWA-20S 2/20/2024	YGWA-20S 8/20/2024	YGWA-21I 2/20/2024	YGWA-21I 8/20/2024	YGWC-23S 2/21/2024	YGWC-23S 8/21/2024	YGWC-24SB 2/23/2024	YGWC-24SB 8/22/2024	YGWC-36A 2/23/2024	YGWC-36A 8/22/2024	YGWC-38 2/22/2024	YGWC-38 8/23/2024
Appendix III																	
pH	SU	6.11	5.74	5.30	5.29	5.99	6.00	6.78	6.60	5.43	5.40	5.62	5.16	5.20	4.82	5.03	5.11
Boron	mg/l	< 0.012	< 0.012	0.018 J	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	1.3	1.2	0.016 J	< 0.012	0.11	0.16	3.7	3.3
Calcium	mg/l	5.6	5.9	0.84 J	0.96 J	2.5	2.8	7	6.9	11.1	13.0	2.6	2.3	33.6	41.1	49.7	43.8
Chloride	mg/l	7.6	7.8	6.6	7.4	2.9	3.0	2.3	2.3	2.4	2.6	8.3	8.6	4.8	4.8	3.7	4.0
Fluoride	mg/l	< 0.050	< 0.050	< 0.050	0.051 J	< 0.050	< 0.050	0.083 J	0.062 J	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Sulfate	mg/l	< 0.50	0.74 J	0.79 J	1.1	< 0.50	< 0.50	3.8	4.0	81	89.3	< 0.50	< 0.50	156	191	210	186
Total Dissolved Solids	mg/l	129	128	52	79.0	164	75.0	156	143	192	193	75	82.0	308	783	403	418
Appendix IV																	
Antimony	mg/l	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	0.0013 J	< 0.00054	< 0.00054	0.00058 J	< 0.00054	< 0.00054	< 0.00054	0.0012 J	< 0.00054	< 0.00054
Arsenic	mg/l	< 0.00084	< 0.00084	< 0.00084	< 0.00084	< 0.00084	< 0.00084	< 0.00084	< 0.00084	< 0.00084	< 0.00084	< 0.00084	< 0.00084	< 0.00084	< 0.00084	< 0.00084	< 0.00084
Barium	mg/l	0.02	0.019	0.013	0.015	0.013	0.012	0.0065	0.0083	0.053	0.057	0.032	0.025	0.13	0.089	0.015	0.016
Beryllium	mg/l	< 0.000094	< 0.000094	< 0.000094	< 0.000094	< 0.000094	< 0.000094	< 0.000094	< 0.000094	0.00019 J	0.00019 J	0.00015 J	0.00012 J	0.0018	0.0021	0.0019	0.0015
Cadmium	mg/l	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	0.00014 J	0.00074	0.00063
Chromium	mg/l	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019
Cobalt	mg/l	< 0.00032	< 0.00032	< 0.00032	< 0.00032	< 0.00032	< 0.00032	0.02	0.020	< 0.00032	< 0.00032	< 0.00032	< 0.00032	< 0.00032	< 0.00032	< 0.00032	< 0.00032
Fluoride	mg/l	< 0.050	< 0.050	< 0.050	0.051 J	< 0.050	< 0.050	0.083 J	0.062 J	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Lead	mg/l	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	0.00029 J	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016
Lithium	mg/l	0.0038 J	0.0032 J	< 0.0016	0.0032 J	< 0.0016	< 0.0016	0.0062 J	0.0057 J	0.0024 J	0.0023 J	< 0.0016	< 0.0016	0.0017 J	0.0020 J	0.0058 J	0.0052 J
Mercury	mg/l	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
Molybdenum	mg/l	< 0.00062	< 0.00062	< 0.00062	< 0.00062	< 0.00062	< 0.00062	< 0.00062	< 0.00062	< 0.00062	0.0016 J	< 0.00062	< 0.00062	< 0.00062	< 0.00062	< 0.00062	< 0.00062
Combined Radium - 226/228	pCi/l	0.0680 U	0.223 U	0.318 U	0.684 U	0.165 U	0.371 U	1.19	0.545 U	0.345 U	0.285 U	0.311 U	0.103 U	0.536 U	0.936 U	0.416 U	0.220 U
Selenium	mg/l	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096	0.031	0.030	< 0.00096	< 0.00096	0.0050 J	0.0054	0.048	0.045
Thallium	mg/l	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038
Other Parameters																	
Alkalinity, Bicarbonate	mg/L as $CaCO_3$	36.4	NA	8.7	NA	24.6	NA	70.9	NA	10.7	NA	11.5	NA	6.8	NA	8.6	NA
Alkalinity, Carbonate	mg/L as $CaCO_3$	36.4	NA	8.7	NA	24.6	NA	70.9	NA	10.7	NA	11.5	NA	6.8	NA	8.6	NA
Alkalinity	mg/L as $CaCO_3$	12.6	NA	8.6	NA	9.2	NA	18.6	NA	16.7	NA	9.9	NA	28.3	NA	19.1	NA
Magnesium	mg/L	< 5.0	NA	< 5.0	NA	< 5.0	NA	< 5.0	NA	< 5.0	NA	< 5.0	NA	< 5.0	NA	< 5.0	NA
Potassium	mg/L	3.1	NA	1.0	NA	0.59	NA	3.6	NA	9.5	NA	2.2	NA	15.1	NA	25.5	NA
Sodium	mg/L	0.95	NA	0.62	NA	0.51	NA	3.1	NA	1.2	NA	1.2	NA	2.3	NA	3.9	NA

Notes:
Analytical results are reported in milligrams per liter except for

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

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

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

NA = Not Analyzed

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

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

U: the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualifited by the laboratory as estimated.

Table 6a
Groundwater Analytical Data - February and August 2024
2024 Annual Groundwater Monitoring and Corrective Action Report
Plant Yates - A-3, A, B, B' and R6 CCR Landfill

Analyte	Units	YGWC-41 2/22/2024	YGWC-41 08/23/2024	YGWC-42 2/22/2024	YGWC-42 8/22/2024	YGWC-43 2/22/2024	YGWC-43 8/22/2024	YGWC-49 2/21/2024	YGWC-49 8/22/2024	YGWC-50 2/22/2024	YGWC-50 6/12/2024	YGWC-50 08/23/2024	YGWC-50 11/26/2024
Appendix III													
pH	SU	4.84	5.18	5.61	5.52	5.81	5.61	5.29	5.72	5.00	4.86	4.97	5.03
Boron	mg/l	3.5	3.2	15.5	12.4	2.3	3.5	< 0.012	0.035 J	22.1	20.0	21.5	23.8
Calcium	mg/l	14.4	13.6	73.5	64.4	10.5	14.8	11.1	10.8	267	57.5	304	308
Chloride	mg/l	3.9	3.9	3.3	3.1	2.3	2.7	4.0	4.1	9.8	9.9	10.4	10.5
Fluoride	mg/l	< 0.050	< 0.050	< 0.050	< 0.050	0.091 J	0.050 J	< 0.050	< 0.050	0.14	0.11	0.085 J	0.15
Sulfate	mg/l	109	97.8	487	432	147	181	65.4	66.4	1170	1130	1130	1010
Total Dissolved Solids	mg/l	224	225	881	830	313	412	173	159	1930	775	2050	2010
Appendix IV													
Antimony	mg/l	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	0.00076 J	0.0034	0.00078 J	0.00092 J
Arsenic	mg/l	< 0.00084	< 0.00084	0.0014 J	0.0021 J	< 0.00084	0.00095 J	< 0.00084	< 0.00084	0.0016 J	0.0014 J	0.0044 J	0.0045 J
Barium	mg/l	0.019	0.019	0.021	0.022	0.028	0.035	0.054	0.054	0.018	0.016	0.017	0.019
Beryllium	mg/l	0.0014	0.0011	< 0.000094	< 0.000094	0.00032 J	0.00043 J	0.00010 J	0.00010 J	0.0049	0.0046	0.0041	0.0037
Cadmium	mg/l	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	0.011	0.013	0.010	0.015
Chromium	mg/l	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	0.0021 J	0.0020 J	< 0.0019	< 0.0019	< 0.0019	0.00041 J
Cobalt	mg/l	< 0.00032	< 0.00032	0.0023 J	0.0017 J	0.00038 J	0.00057 J	< 0.00032	< 0.00032	0.0063	0.0055	0.0060	0.0075
Fluoride	mg/l	< 0.050	< 0.050	< 0.050	< 0.050	0.091 J	0.050 J	< 0.050	< 0.050	0.14	0.11	0.085 J	0.15
Lead	mg/l	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	0.00021 J	0.00042 J	0.00023 J	0.00033 J
Lithium	mg/l	0.0026 J	0.0020 J	0.049	0.051	0.015 J	0.015 J	0.0029 J	0.0029 J	0.0036 J	0.0033 J	0.0031 J	0.0032 J
Mercury	mg/l	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	<0.00013	< 0.00013	<0.00013
Molybdenum	mg/l	< 0.00062	0.0019 J	0.00075 J	0.00071 J	0.0016 J	0.0013 J	< 0.00062	< 0.00062	< 0.00062	< 0.00062	< 0.00062	<0.00035
Combined Radium - 226/228	pCi/l	0.752 U	1.01 U	1.05 U	0.134 U	4.56	4.45	0.595 U	0.852	0.871 U	0.828 U	0.433 U	0.398 U
Selenium	mg/l	0.021	0.021	0.037	0.038	< 0.00096	< 0.00096	0.0055	0.0056	< 0.00096	0.0012 J	0.0015 J	0.0022 J
Thallium	mg/l	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	<0.00020
Other Parameters													
Alkalinity, Bicarbonate	mg/L as $CaCO_3$	6.6	NA	36.3	NA	35.5	NA	16.7	NA	25.7	NA	NA	NA
Alkalinity, Carbonate	mg/L as $CaCO_3$	6.6	NA	36.3	NA	35.5	NA	16.7	NA	25.7	NA	NA	NA
Alkalinity	mg/L as $CaCO_3$	15	NA	38	NA	19.1	NA	17	NA	28	NA	NA	NA
Magnesium	mg/L	< 5.0	NA	< 5.0	NA	< 5.0	NA	< 5.0	NA	< 5.0	NA	NA	NA
Potassium	mg/L	17.7	NA	79.5	NA	25.8	NA	7.6	NA	126	NA	NA	NA
Sodium	mg/L	2.5	NA	12	NA	6.7	NA	1.7	NA	6.0	NA	NA	NA

Notes:
Analytical results are reported in milligrams per liter except for

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

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

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

NA = Not Analyzed

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

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

U: the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualifited by the laboratory as estimated.

Table 6b
Upgradient Groundwater Analytical Data - February and August 2024
2024 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - AP-3, B, B', and R6 CCR Landfill

Analyte	Units	GWA-2 2/20/2024	YGWA-1I 2/20/2024	YGWA-1I 8/20/2024	YGWA-1D 2/20/2024	YGWA-1D 8/20/2024	YGWA-2I 2/20/2024	YGWA-2I 8/20/2024	YGWA-3I 2/20/2024
Appendix III									
pH	SU	6.07	6.42	5.77	7.06	7.18	7.23	6.91	7.59
Boron	mg/l	0.017 J	0.014 J	< 0.012	0.015 J	< 0.012	< 0.012	< 0.012	< 0.012
Calcium	mg/l	22.8	2.2	1.9	15.3	17.7	28.2	30.4	23.7
Chloride	mg/l	6.1	1.2	1.3	1	1.0	0.96 J	0.91 J	1.1
Fluoride	mg/l	0.094 J	< 0.050	< 0.050	0.086 J	0.066 J	0.1	0.085 J	0.12
Sulfate	mg/l	75	4.3	4.9	9.7	12.2	23.1	21.3	13.8
Total Dissolved Solids	mg/l	214	59	67.0	130	140	159	184	220
Appendix IV									
Antimony	mg/l	0.0026 J	< 0.00054	< 0.00054	0.0023 J	0.00088 J	0.00067 J	< 0.00054	< 0.00054
Arsenic	mg/l	0.0015 J	< 0.00084	< 0.00084	< 0.00084	0.00099 J	0.0019 J	< 0.00084	0.0013 J
Barium	mg/l	0.035	0.0040 J	0.0072	0.0062	0.0061	0.0044 J	0.0033 J	0.0032 J
Beryllium	mg/l	< 0.000094	< 0.000094	< 0.000094	< 0.000094	< 0.000094	< 0.000094	< 0.000094	< 0.000094
Cadmium	mg/l	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010
Chromium	mg/l	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019
Cobalt	mg/l	0.023	0.0018 J	0.00033 J	0.00055 J	< 0.00032	< 0.00032	< 0.00032	< 0.00032
Fluoride	mg/l	0.094 J	< 0.050	< 0.050	0.086 J	0.066 J	0.1	0.085 J	0.12
Lead	mg/l	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016
Lithium	mg/l	0.0024 J	< 0.0016	0.0023 J	0.0071 J	0.0037 J	0.0021 J	< 0.0016	0.020 J
Mercury	mg/l	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
Molybdenum	mg/l	< 0.00062	0.03	0.0039 J	0.0098 J	0.010	0.0076 J	0.011	0.0089 J
Combined Radium - 226/228	pci/l	0.978 U	0.798 U	0.650 U	0.274 U	0.460 U	0.784 U	0.0912 U	1.09 U
Selenium	mg/l	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096
Thallium	mg/l	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038
Other Parameters									
Alkalinity	mg/L as $CaCO_3$	73.5	17.9	NA	61.2	NA	84.2	NA	90.2
Alkalinity, Bicarbonate	mg/L as $CaCO_3$	73.5	17.9	NA	61.2	NA	84.2	NA	90.2
Alkalinity, Carbonate	mg/L as $CaCO_3$	< 5.0	< 5.0	NA	< 5.0	NA	< 5.0	NA	< 5.0
Magnesium	mg/L	19.8	1.0	NA	2.0	NA	4.4	NA	5.3
Potassium	mg/L	9.9	2.2	NA	3.8	NA	5.6	NA	5.0
Sodium	mg/L	8.2	5.5	NA	10	NA	9.4	NA	9.2

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 and August 2024
2024 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - AP-3, B, B', and R6 CCR Landfill

Analyte	Units	YGWA-3I 8/20/2024	YGWA-3D 2/20/2024	YGWA-3D 8/20/2024	YGWA-4I 2/20/2024	YGWA-4I 8/20/2024	YGWA-5I 2/20/2024	YGWA-5I 8/20/2024	YGWA-5D 2/20/2024
Appendix III									
pH	SU	7.45	7.81	7.59	6.21	6.03	5.78	5.58	7.56
Boron	mg/l	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Calcium	mg/l	23.4	30.7	30.0	9.9	9.1	2.7	3.2	27.2
Chloride	mg/l	1.0	1.1	1.1	4.6	5.2	4.8	4.8	3.2
Fluoride	mg/l	0.12	0.45	0.45	0.059 J	< 0.050	< 0.050	< 0.050	0.076 J
Sulfate	mg/l	13.7	7	7.7	8.5	8.7	2.5	2.6	5.1
Total Dissolved Solids	mg/l	179	294	164	140	128	137	108	639
Appendix IV									
Antimony	mg/l	< 0.00054	< 0.00054	< 0.00054	0.00061 J	< 0.00054	< 0.00054	< 0.00054	< 0.00054
Arsenic	mg/l	< 0.00084	0.0027 J	< 0.00084	< 0.00084	< 0.00084	< 0.00084	< 0.00084	0.0030 J
Barium	mg/l	0.0027 J	0.0045 J	0.0044 J	0.014	0.012	0.019	0.018	0.0078
Beryllium	mg/l	< 0.000094	< 0.000094	< 0.000094	< 0.000094	< 0.000094	< 0.000094	< 0.000094	< 0.000094
Cadmium	mg/l	< 0.00010	< 0.00010	< 0.00010	< 0.00010	0.00019 J	< 0.00010	< 0.00010	< 0.00010
Chromium	mg/l	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019
Cobalt	mg/l	< 0.00032	< 0.00032	< 0.00032	< 0.00032	< 0.00032	< 0.00032	< 0.00032	< 0.00032
Fluoride	mg/l	0.12	0.45	0.45	0.059 J	< 0.050	< 0.050	< 0.050	0.076 J
Lead	mg/l	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016
Lithium	mg/l	0.017 J	0.021 J	0.021 J	0.014 J	0.011 J	0.0033 J	0.0031 J	0.0056 J
Mercury	mg/l	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
Molybdenum	mg/l	0.0058 J	0.013	0.012	< 0.00062	< 0.00062	< 0.00062	< 0.00062	0.0010 J
Combined Radium - 226/228	pci/l	0.921 U	2.56	3.09	1.10 U	1.18	0.630 U	0.695 U	2.8
Selenium	mg/l	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096
Thallium	mg/l	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038
Other Parameters									
Alkalinity	mg/L as $CaCO_3$	NA	108	NA	56	NA	25.3	NA	103
Alkalinity, Bicarbonate	mg/L as $CaCO_3$	NA	108	NA	56	NA	25.3	NA	103
Alkalinity, Carbonate	mg/L as $CaCO_3$	NA	< 5.0	NA	< 5.0	NA	< 5.0	NA	< 5.0
Magnesium	mg/L	NA	3.7	NA	5.5	NA	2.7	NA	4.5
Potassium	mg/L	NA	3.5	NA	4.0	NA	1.5	NA	3.5
Sodium	mg/L	NA	10	NA	10.1	NA	10.5	NA	9.5

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

Acronyms and Abbreviations:
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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 and August 2024
2024 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - AP-3, B, B', and R6 CCR Landfill

Analyte	Units	YGWA-5D 8/20/2024	YGWA-14S 02/23/2024	YGWA-14S 8/20/2024	YGWA-17S 2/20/2024	YGWA-17S 8/20/2024	YGWA-18S 2/23/2024	YGWA-18S 8/21/2024	YGWA-18I 2/20/2024
Appendix III									
pH	SU	7.3	5.39	5.49	5.64	5.45	5.30	5.42	6.11
Boron	mg/l	< 0.012	0.037 J	0.014 J	< 0.012	< 0.012	0.018 J	< 0.012	< 0.012
Calcium	mg/l	29.1	1.6	1.3	3.2	3.5	0.84 J	0.96 J	5.6
Chloride	mg/l	3.4	4.8	4.5	12.2	12.7	6.6	7.4	7.6
Fluoride	mg/l	0.058 J	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.051 J	< 0.050
Sulfate	mg/l	4.3	7.1	7.6	4.6	4.6	0.79 J	1.1	< 0.50
Total Dissolved Solids	mg/l	212	64	81.0	77	86.0	52	79.0	129
Appendix IV									
Antimony	mg/l	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054
Arsenic	mg/l	0.0012 J	< 0.00084	< 0.00084	< 0.00084	< 0.00084	< 0.00084	< 0.00084	< 0.00084
Barium	mg/l	0.0066	0.0096	0.0075	0.017	0.016	0.013	0.015	0.02
Beryllium	mg/l	< 0.000094	0.00024 J	0.00021 J	0.00010 J	0.00010 J	< 0.000094	< 0.000094	< 0.000094
Cadmium	mg/l	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010
Chromium	mg/l	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019
Cobalt	mg/l	< 0.00032	< 0.00032	< 0.00032	< 0.00032	< 0.00032	< 0.00032	< 0.00032	< 0.00032
Fluoride	mg/l	0.058 J	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.051 J	< 0.050
Lead	mg/l	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016
Lithium	mg/l	0.0024 J	< 0.0016	< 0.0016	< 0.0016	< 0.0016	< 0.0016	0.0032 J	0.0038 J
Mercury	mg/l	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
Molybdenum	mg/l	0.00074 J	< 0.00062	< 0.00062	< 0.00062	< 0.00062	< 0.00062	< 0.00062	< 0.00062
Combined Radium - 226/228	pci/l	3.02	0.736 U	0.667 U	0.0387 U	0.554 U	0.318 U	0.684 U	0.0680 U
Selenium	mg/l	< 0.00096	0.0010 J	0.0012 J	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096
Thallium	mg/l	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038
Other Parameters									
Alkalinity	mg/L as $CaCO_3$	NA	14.4	NA	14.5	NA	8.7	NA	36.4
Alkalinity, Bicarbonate	mg/L as $CaCO_3$	NA	14.4	NA	14.5	NA	8.7	NA	36.4
Alkalinity, Carbonate	mg/L as $CaCO_3$	NA	< 5.0	NA	< 5.0	NA	< 5.0	NA	< 5.0
Magnesium	mg/L	NA	1.8	NA	1.1	NA	1.0	NA	3.1
Potassium	mg/L	NA	0.89	NA	0.36 J	NA	0.62	NA	0.95
Sodium	mg/L	NA	10.1	NA	15	NA	8.6	NA	12.6

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 and August 2024
2024 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - AP-3, B, B', and R6 CCR Landfill

Analyte	Units	YGWA-18I 8/20/2024	YGWA-20S 2/20/2024	YGWA-20S 8/20/2024	YGWA-21I 2/20/2024	YGWA-21I 8/20/2024	YGWA-30I 2/20/2024	YGWA-30I 8/20/2024	YGWA-39 2/20/2024
Appendix III									
pH	SU	5.74	5.99	6.0	6.78	6.6	5.81	6.07	5.97
Boron	mg/l	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	0.12
Calcium	mg/l	5.9	2.5	2.8	7	6.9	1.3	1.4	16.9
Chloride	mg/l	7.8	2.9	3.0	2.3	2.3	1.4	1.4	4.6
Fluoride	mg/l	< 0.050	< 0.050	< 0.050	0.083 J	0.062 J	0.051 J	< 0.050	0.063 J
Sulfate	mg/l	0.74 J	< 0.50	< 0.50	3.8	4.0	0.69 J	0.74 J	8.6
Total Dissolved Solids	mg/l	128	164	75.0	156	143	55	69.0	233
Appendix IV									
Antimony	mg/l	< 0.00054	< 0.00054	< 0.00054	0.0013 J	< 0.00054	< 0.00054	< 0.00054	< 0.00054
Arsenic	mg/l	< 0.00084	< 0.00084	< 0.00084	< 0.00084	< 0.00084	< 0.00084	< 0.00084	0.0020 J
Barium	mg/l	0.019	0.013	0.012	0.0065	0.0083	0.0064	0.0067	0.029
Beryllium	mg/l	< 0.000094	< 0.000094	< 0.000094	< 0.000094	< 0.000094	< 0.000094	< 0.000094	< 0.000094
Cadmium	mg/l	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010
Chromium	mg/l	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019
Cobalt	mg/l	< 0.00032	< 0.00032	< 0.00032	0.02	0.020	0.0029 J	0.0023 J	0.00073 J
Fluoride	mg/l	< 0.050	< 0.050	< 0.050	0.083 J	0.062 J	0.051 J	< 0.050	0.063 J
Lead	mg/l	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016
Lithium	mg/l	0.0032 J	< 0.0016	< 0.0016	0.0062 J	0.0057 J	< 0.0016	< 0.0016	0.0059 J
Mercury	mg/l	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
Molybdenum	mg/l	< 0.00062	< 0.00062	< 0.00062	< 0.00062	< 0.00062	< 0.00062	< 0.00062	0.0058 J
Combined Radium - 226/228	pci/l	0.223 U	0.165 U	0.371 U	1.19	0.545 U	0.375 U	0.748 U	0.701 U
Selenium	mg/l	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096
Thallium	mg/l	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038
Other Parameters									
Alkalinity	mg/L as $CaCO_3$	NA	24.6	NA	70.9	NA	15.7	NA	183
Alkalinity, Bicarbonate	mg/L as $CaCO_3$	NA	24.6	NA	70.9	NA	15.7	NA	183
Alkalinity, Carbonate	mg/L as $CaCO_3$	NA	< 5.0	NA	< 5.0	NA	< 5.0	NA	< 5.0
Magnesium	mg/L	NA	0.59	NA	3.6	NA	0.89	NA	21.2
Potassium	mg/L	NA	0.51	NA	3.1	NA	0.55	NA	5.8
Sodium	mg/L	NA	9.2	NA	18.6	NA	5.8	NA	25.2

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 and August 2024
2024 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - AP-3, B, B', and R6 CCR Landfill

Analyte	Units	YGWA-39 8/21/2024	YGWA-40 2/20/2024	YGWA-40 8/21/2024	YGWA-47 2/20/2024	YGWA-47 8/20/2024
Appendix III						
pH	SU	6.0	5.32	5.38	5.62	5.48
Boron	mg/l	0.13	0.056	0.061	0.023 J	< 0.012
Calcium	mg/l	19.7	5.6	6	10.3	10
Chloride	mg/l	4.0	5.7	5.4	3.2	3.6
Fluoride	mg/l	0.083 J	< 0.050	0.060 J	0.073 J	< 0.050
Sulfate	mg/l	6.6	17.2	18.2	51	53.9
Total Dissolved Solids	mg/l	235	109	94.0	159	155
Appendix IV						
Antimony	mg/l	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054
Arsenic	mg/l	0.0027 J	0.0012 J	0.0014 J	< 0.00084	< 0.00084
Barium	mg/l	0.030	0.033	0.033	0.031	0.031
Beryllium	mg/l	< 0.000094	0.00025 J	0.00023 J	< 0.000094	< 0.000094
Cadmium	mg/l	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010
Chromium	mg/l	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019
Cobalt	mg/l	0.00048 J	< 0.00032	< 0.00032	0.0011 J	0.00034 J
Fluoride	mg/l	0.083 J	< 0.050	0.060 J	0.073 J	< 0.00016
Lead	mg/l	< 0.00016	< 0.00016	< 0.00016	< 0.00016	0.0036 J
Lithium	mg/l	0.0055 J	< 0.0016	< 0.0016	0.0036 J	< 0.00013
Mercury	mg/l	< 0.00013	0.00032	0.00033	< 0.00013	< 0.00062
Molybdenum	mg/l	0.0068 J	< 0.00062	< 0.00062	< 0.00062	0.873 U
Combined Radium - 226/228	pci/l	1.52	0.437 U	0.265 U	0.939 U	< 0.00096
Selenium	mg/l	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00038
Thallium	mg/l	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.050
Other Parameters						
Alkalinity	mg/L as $CaCO_3$	NA	24.7	NA	36.4	NA
Alkalinity, Bicarbonate	mg/L as $CaCO_3$	NA	24.7	NA	36.4	NA
Alkalinity, Carbonate	mg/L as $CaCO_3$	NA	< 5.0	NA	< 5.0	NA
Magnesium	mg/L	NA	3.2	NA	10.9	NA
Potassium	mg/L	NA	2.0	NA	4.1	NA
Sodium	mg/L	NA	10.1	NA	12.3	NA

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
2024 Annual Groundwater Monitoring and Corrective Action Report
Plant Yates - AP-3, A, B, B' and R6 CCR Landfill

Constituent	Units	Background [2]	GWPS
August 2024 (AP-3, A, B, B', R6 Landfill)			
Antimony	mg/L	0.0047	0.006
Arsenic	mg/L	0.005	0.010
Barium	mg/L	0.21	2.0
Beryllium	mg/L	0.0011	0.004
Cadmium	mg/L	0.00063	0.005
Chromium	mg/L	0.0093	0.100
Cobalt	mg/L	0.035	0.035 [2]
Fluoride	mg/L	0.680	4.0
Lead	mg/L	0.0013	0.015
Lithium	mg/L	0.030	0.040
Mercury	mg/L	0.00064	0.002
Molybdenum	mg/L	0.030	0.100
Selenium	mg/L	0.005	0.050
Thallium	mg/L	0.001	0.002
Combined Radium - 226/228	pCi/L	6.92	6.92 [2]

Notes:

1. Site background: Tolerance limits calculated from pooled upgradient well data.

2. Background concentration is higher than the federally promulgated value (0.006 mg/L for Cobalt). Background is higher than radium MCL (5 mg/L). Therefore, background is the GWPS.

Acronyms and Abbreviations:

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

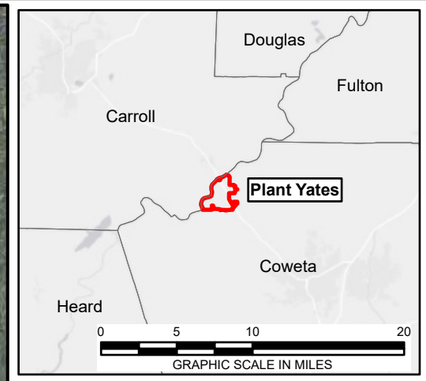
CFR = Code of Federal Regulations

MCL = Maximum Contaminant Level

mg/L = millgrams per liter

pCi/L = picocuries per liter

Figures



LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- PERMITTED UNIT BOUNDARY

NOTE:
AERIAL IMAGE SOURCES: JANUARY 22, 2024; JUNE 20, 2024 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2023 IMAGERY.

0 650 1,300 2,600
GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

Georgia Power

PLANT YATES AP-3, A, B, B', AND R6 CCR LANDFILL
NEWNAN, GA
2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

SITE LOCATION MAP

ARCADIS

FIGURE
1

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

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

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

LEGEND

- SAPROLITE DETECTION MONITORING WELL LOCATION
- TRANSITION DETECTION MONITORING WELL LOCATION
- BEDROCK DETECTION MONITORING WELL LOCATION
- SAPROLITE ASSESSMENT WELL/ PIEZOMETER
- TRANSITION ASSESSMENT WELL/ PIEZOMETER
- BEDROCK ASSESSMENT WELL/ PIEZOMETER
- PERMITTED UNIT BOUNDARY
- AREA WHERE ASH HAS BEEN CERTIFIED REMOVED AS OF 1/31/2024

NOTE:
AERIAL IMAGE SOURCES: JANUARY 22, 2024; JUNE 20, 2024 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2023 IMAGERY.

0 450 900 1,800
GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

Georgia Power
PLANT YATES AP-3, A, B, B', AND R6 CCR LANDFILL
NEWNAN, GA
2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

PLANT YATES CCR REMOVAL AREAS

ARCADIS

FIGURE
2

LEGEND

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

NOTE:
AERIAL IMAGE SOURCES: JANUARY 22, 2024; JUNE 20, 2024 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2023 IMAGERY.

0 350 700 1,400
GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

Georgia Power

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

2024 ANNUAL 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-47 721.97
YGWC-52 717.08
PZ-09I 693.24
PZ-09S 693.40
YGWC-44 707.25
YGWC-45 696.51
FORMER ASH POND 1
PZ-53 693.39
YGWC-46A 693.42
PZ-10I 688.20
PZ-10S 692.58
GWC-4R 740.17
GWC-2R 739.61
GWC-3R 745.02
GWC-6R 751.33
GWC-5R 750.99
GWC-1R 748.19
Former Gypsum Stack Landfill
GWA-2 767.51
YGWA-6S 760.45
PZ-06D 757.28
YGWA-6I 760.71
PZ-48 756.52
YGWC-49 748.63
YGWC-24SB 737.25
PZ-24IB 736.86
FORMER ASH POND A
YGWC-26S 690.28
YGWC-26I 689.19
YGWC-27S 688.20
YGWC-27I 687.81
YGWC-28I 690.17
YGWC-28S 690.67
YGWC-29IB 687.28
PZ-25I 754.84
PZ-25S 723.90
PZ-35 732.99
YAMW-1 733.17
ASH POND 2
YGWA-30I 717.35
YGWC-36A 729.86
PZ-31S 715.78
YGWC-50 722.09
ASH POND B
PZ-13S 770.34
PZ-13I 766.02
YGWA-14S 730.23
PZ-14I 729.64
PZ-51 733.78
YGWC-43 725.14
ASH POND B'
YGWA-17S 770.84
YGWA-18S 768.46
YGWA-18I 765.79
PZ-01S 802.48
YGWA-1I 797.04
YGWA-1D 786.15
PZ-55 742.52
PZ-54D 666.64
PZ-56D 750.61
R6 ASH DISPOSAL AREA
YAMW-3 757.09
YGWC-42 767.90
YAMW-2 756.09
YAMW-4 771.46
YGWC-41 773.52
YGWA-3I 744.14
PZ-03S 758.14
YGWA-3D 763.63
PZ-52D 756.26
PZ-53D 757.84
PZ-37 749.24
PZ-37D 757.76
YGWC-23S 748.32
ASH POND 3
YGWA-2I 819.33
YGWC-38 767.78
YAMW-5 772.36
YGWA-40 790.74
YGWA-39 797.16
ASH MANAGEMENT AREA
YGWA-21I 752.09
YGWA-20S 755.87
YGWA-4I 759.01
PZ-04S 757.63
PZ-05S 763.65
YGWA-5I 763.54
YGWA-5D 764.46

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

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

757.11 GROUNDWATER ELEVATION (FEET)

GEORGIA REGISTERED No. PE027801 PROFESSIONAL ENGINEER

NOTES:

1. SHALLOW GROUNDWATER CONTOURS 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 22, 2024 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 19, 2024.

0 450 900 1,800
GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

Georgia Power

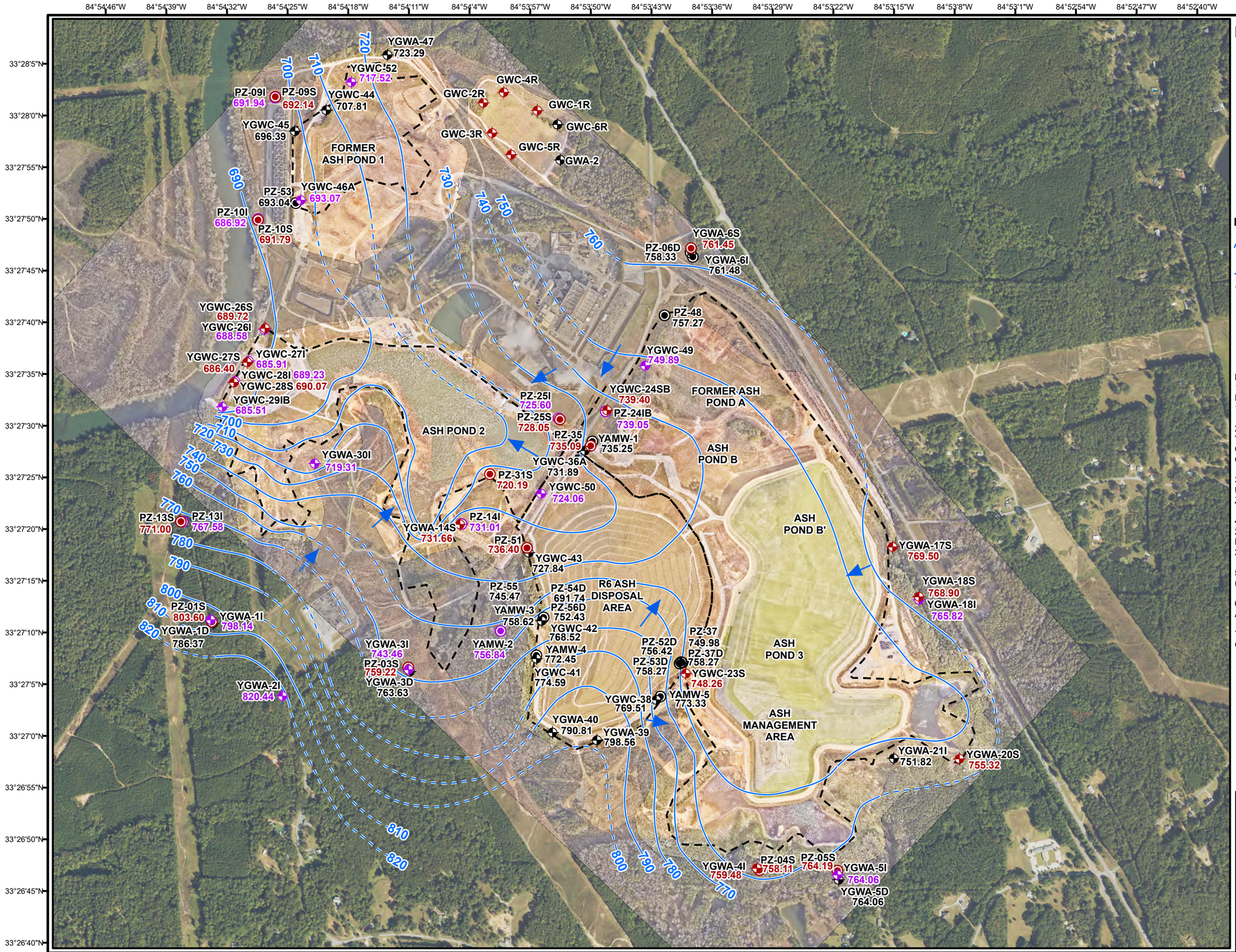
PLANT YATES AP-3, A, B, B', AND R6 CCR LANDFILL
NEWNAN, GA

2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

SITEWIDE GROUNDWATER ELEVATION MAP FEBRUARY 2024

ARCADIS

FIGURE **4**



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
- <ALL OTHER VALUES>
- PERMITTED UNIT BOUNDARY
- APPROXIMATE POTENTIOMETRIC CONTOUR (FEET) DASHED WHERE INFERRED
- FLOW LINE
- **757.11** GROUNDWATER ELEVATION (FEET)

NOTES:

1. SHALLOW GROUNDWATER ELEVATIONS 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 22, 2024; JUNE 20, 2024 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 AUGUST 19, 2024.

7. WELL LOCATIONS AT FORMER GYPSUM LANDFILL NOT GAUGED.

GEORGIA REGISTERED No. PE027801 PROFESSIONAL ENGINEER

0 450 900 1,800

GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

Georgia Power

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

2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

SITEWIDE GROUNDWATER ELEVATION MAP AUGUST 2024

ARCADIS

FIGURE **5**

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

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

PZ-06D 757.28
YGWA-6S 760.45
YGWA-6I 760.71
PZ-48 756.52
YGWC-49 748.63
FORMER ASH POND A
ASH POND 2
PZ-24IB 736.86
YGWC-24SB 737.25
PZ-35 732.99
YAMW-1 733.17
YGWC-36A 729.86
ASH POND B
YGWC-50 722.09
ASH POND B'
PZ-51 733.78
YGWC-43 725.14
YGWA-17S 770.84
R6 ASH DISPOSAL AREA
PZ-55 742.52
PZ-56D 750.61
PZ-54D 666.64
YAMW-3 757.09
YGWC-42 767.90
YGWA-18S 768.46
YGWA-18I 765.79
YAMW-2 756.09
PZ-52D 756.26
PZ-53D 757.84
PZ-37 749.24
PZ-37D 757.76
YGWC-23S 748.32
ASH POND 3
YAMW-4 771.46
YGWC-41 773.52
YAMW-5 772.36
YGWC-38 767.78
YGWA-40 790.74
YGWA-39 797.16
ASH MANAGEMENT AREA
YGWA-21I 752.09
YGWA-20S 755.87
YGWA-4I 759.01
PZ-04S 757.63
PZ-05S 763.65
YGWA-5I 763.54
YGWA-5D 764.46

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

LEGEND

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

757.11 GROUNDWATER ELEVATION (FEET)

GEORGIA REGISTERED No. PE027801 PROFESSIONAL ENGINEER GEOTECHNICAL

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 22, 2024 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 19, 2024.

0 350 700 1,400
GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

Georgia Power

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

2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

GROUNDWATER ELEVATION MAP FEBRUARY 2024

ARCADIS

FIGURE **6**

LEGEND

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

GEORGIA REGISTERED No. PE027801 PROFESSIONAL ENGINEER

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 22, 2024; JUNE 20, 2024 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 AUGUST 19, 2024.

0 350 700 1,400

GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

Georgia Power

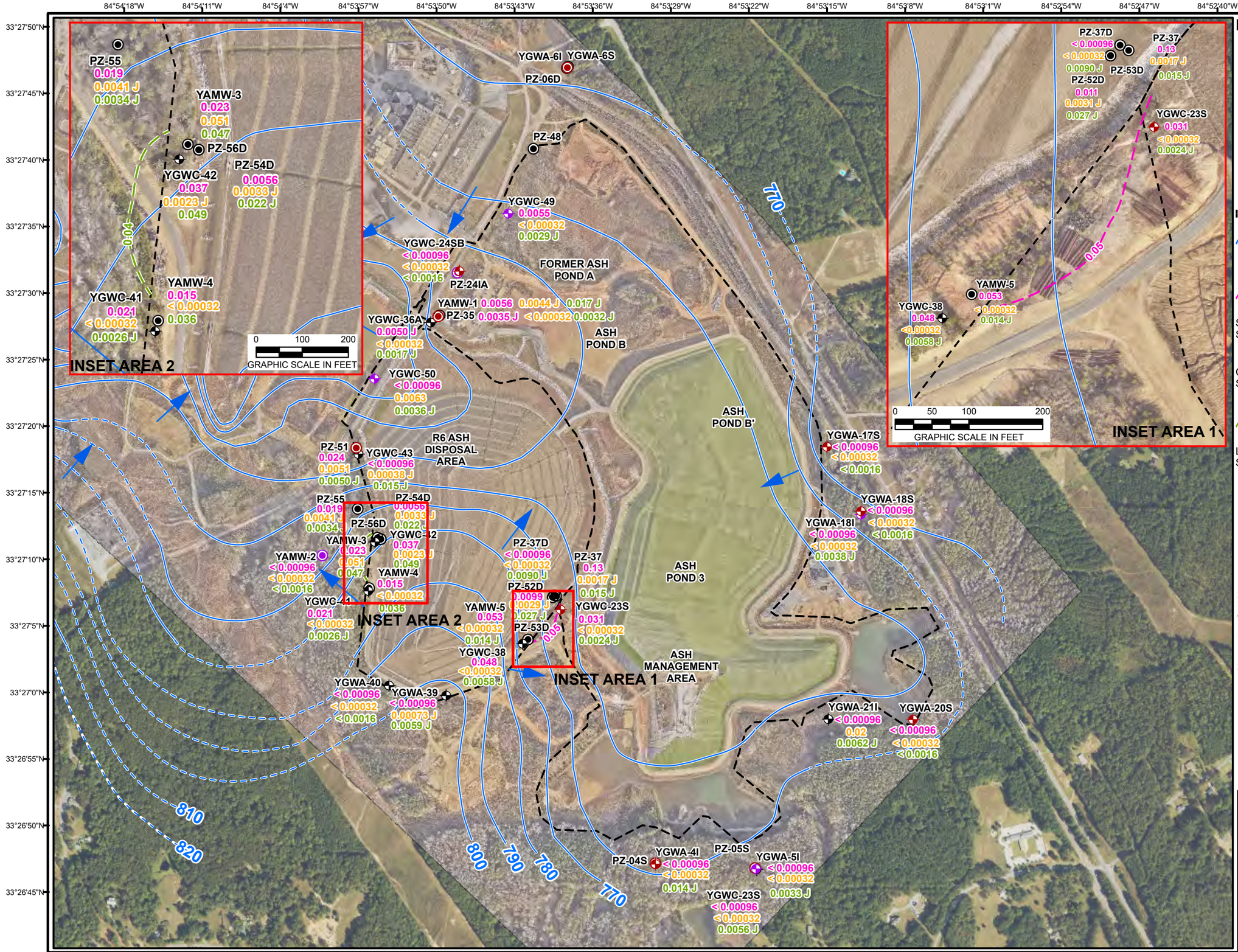
PLANT YATES AP-3, A, B, B', AND R6 CCR LANDFILL
NEWNAN, GA

2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

GROUNDWATER ELEVATION MAP AUGUST 2024

ARCADIS

FIGURE **7**



LEGEND

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

SELENIUM GROUNDWATER PROTECTION STANDARD VALUE = 0.050 mg/L

0.046 SELENIUM CONCENTRATION VALUES (mg/L)

COBALT GROUNDWATER PROTECTION STANDARD VALUE = 0.035 mg/L

0.011 COBALT CONCENTRATION VALUES (mg/L)

- LITHIUM ISOCONTOUR LINE (DASHED WHERE INFERRED)

LITHIUM GROUNDWATER PROTECTION STANDARD VALUE = 0.04 mg/L

0.049 LITHIUM CONCENTRATION VALUES (mg/L)

NOTES:

1. RESULTS ARE PROVIDED IN MILLIGRAMS PER LITER (mg/L)
2. J = ESTIMATED VALUE
3. SAMPLES WERE COLLECTED FEBRUARY 20-23, 2024.
4. APPROXIMATE POTENTIOMETRIC CONTOURS DATED FEBRUARY 19, 2024.
5. AERIAL IMAGE SOURCES: JANUARY 22, 2024 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2023 IMAGERY.

0 350 700 1,400
GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

Georgia Power

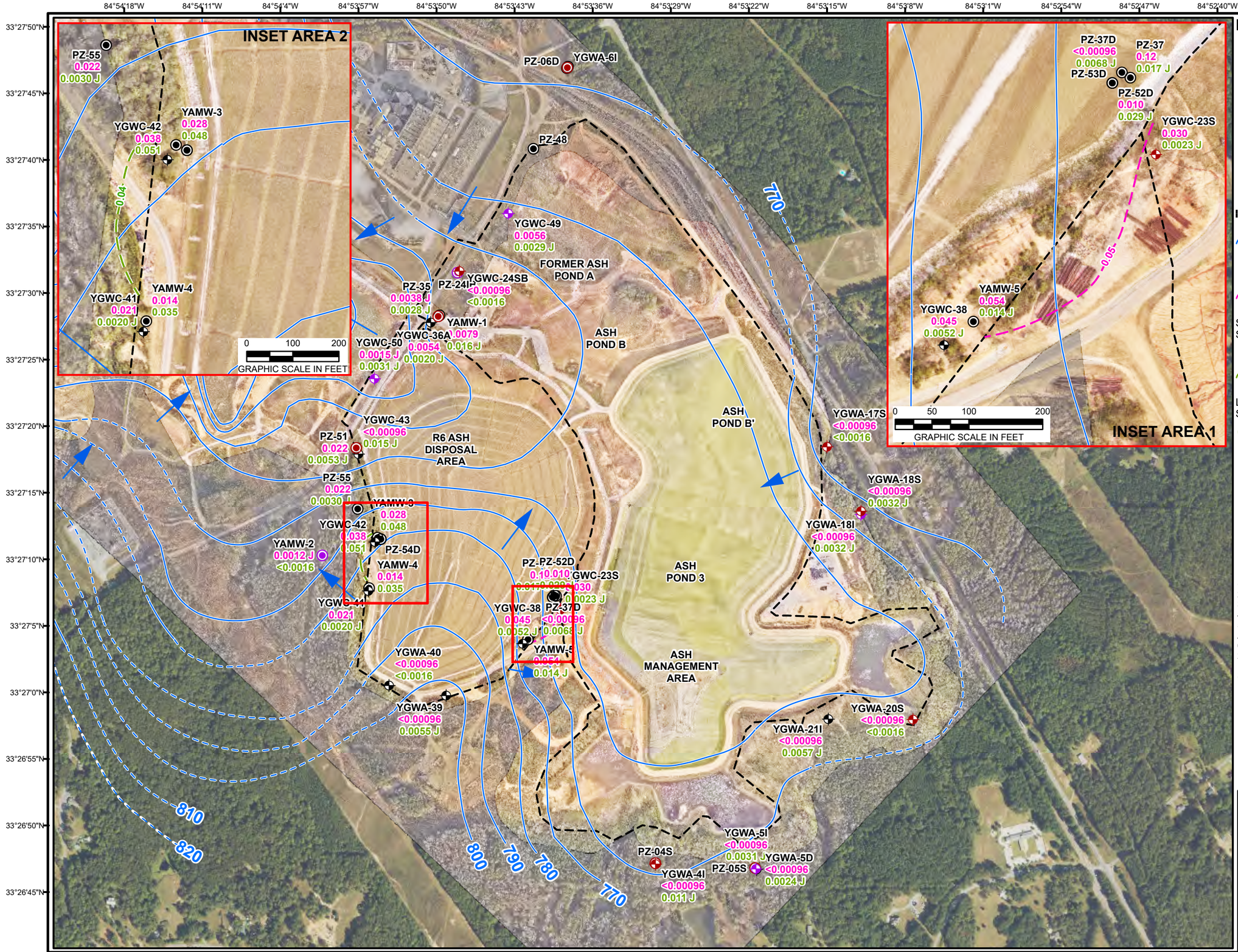
PLANT YATES AP-3, A, B, B', AND R6 CCR LANDFILL
NEWNAN, GA

2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

SELENIUM, COBALT AND LITHIUM ISOCONCENTRATION MAP – FEBRUARY 2024

ARCADIS

FIGURE
8



LEGEND

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

SELENIUM GROUNDWATER PROTECTION STANDARD VALUE = 0.050 mg/L

0.045 SELENIUM CONCENTRATION VALUES (mg/L)

- LITHIUM ISOCONTOUR LINE (DASHED WHERE INFERRED)

LITHIUM GROUNDWATER PROTECTION STANDARD VALUE = 0.04 mg/L

0.029 LITHIUM CONCENTRATION VALUES (mg/L)

NOTES:

1. RESULTS ARE PROVIDED IN MILLIGRAMS PER LITER (mg/L)
2. J = ESTIMATED VALUE
3. < = LESS THAN
4. SAMPLES WERE COLLECTED AUGUST 20-23, 2024.
5. APPROXIMATE POTENTIOMETRIC CONTOURS DATED AUGUST 19, 2024.
6. AERIAL IMAGE SOURCES: JANUARY 22, 2024; JUNE 20, 2024 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2023 IMAGERY.

0 350 700 1,400

GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

Georgia Power

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

2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

SELENIUM AND LITHIUM ISOCONCENTRATION MAP – AUGUST 2024

ARCADIS

FIGURE
9

Appendix A

Field Sampling and Well Inspection Forms

February 2024

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/20/2024

Calibrated By: Mark Chest

Field Conditions: Sunny, Cold

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	747642
Turbidity Meter	Geotech	--

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	3G01148	Apr-24	Insitu
pH (SU)	4.00	3GD708	Apr-25	Insitu
pH (SU)	7.00	3GE0720	May-25	Insitu
pH (SU)	10.00	3GD1219	Apr-25	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	3GF0202	Mar-24	Insitu

Calibration					
Time Start: 8:00			**Time Finish: 8:25**		
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	8.28	± 0.1	GWMP
pH (SU)	7.00	7.06	7.79	± 0.1	GWMP
pH (SU)	10.00	10.14	10.54	± 0.1	GWMP
D.O. (%)	N/A	100.00	13.48	± 10%	NA
ORP (mV)	240.0	244.9	12.87	± 10	EPA 2024

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.4	± 10% of standard	EPA 2023
	100	111		
	800	815		
	<0.10	0.02		

Calibration Check					
Time Start: 13:55			**Time Finish: 14:10**		
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	16.51	± 0.1	GWMP
pH (SU)	7.00	7.04	16.01	± 0.1	GWMP
pH (SU)	10.00	10.11	15.98	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	19.7	± 10% of standard	EPA 2023
	100	101		
	800	800		
	<0.10	0.02		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/21/2024

Calibrated By: Mark Chest

Field Conditions: Sunny, Cold

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	747642
Turbidity Meter	Geotech	--

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	3G01148	Apr-24	Insitu
pH (SU)	4.00	3GD708	Apr-25	Insitu
pH (SU)	7.00	3GE0720	May-25	Insitu
pH (SU)	10.00	3GD1219	Apr-25	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	3GF0202	Mar-24	Insitu

Calibration					
Time Start 8:25			**Time Finish 8:50**		
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	15.78	± 0.1	GWMP
pH (SU)	7.00	7.04	16.07	± 0.1	GWMP
pH (SU)	10.00	10.11	16.02	± 0.1	GWMP
D.O. (%)	N/A	100.00	16.22	± 10%	NA
ORP (mV)	240.0	238.8	17.55	± 10	EPA 2024

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.1	± 10% of standard	EPA 2023
	100	101		
	800	800		
	<0.10	0.02		

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

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

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/20/2024

Calibrated By: Kim Lapszynski

Field Conditions: Sunny, Cold

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	867050
Turbidity Meter	Geotech	1069473

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	3G01148	Apr-24	Insitu
pH (SU)	4.00	3GD708	Apr-25	Insitu
pH (SU)	7.00	3GE0720	May-25	Insitu
pH (SU)	10.00	3GD1219	Apr-25	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	3GF0202	Mar-24	Insitu

Calibration					
Time Start 7:35		**Time Finish 8:05**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (^{o}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	11.72	± 0.1	GWMP
pH (SU)	7.00	7.06	12.20	± 0.1	GWMP
pH (SU)	10.00	10.14	11.99	± 0.1	GWMP
D.O. (%)	N/A	100.00	12.58	± 10%	NA
ORP (mV)	229.0	229.0	12.09	± 10	EPA 2024

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	18.2	± 10% of standard	EPA 2023
	100	105		
	800	800		
	<0.10	0.11		

Calibration Check					
Time Start 13:45		**Time Finish 14:00**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (^{o}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	14.23	± 0.1	GWMP
pH (SU)	7.00	7.04	14.13	± 0.1	GWMP
pH (SU)	10.00	10.11	14.48	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.4	± 10% of standard	EPA 2023
	100	100		
	800	813		
	<0.10	0.02		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/21/2024

Calibrated By: Kim Lapszynski

Field Conditions: Sunny, Cold

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	867050
Turbidity Meter	Geotech	1069473

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	3G01148	Apr-24	Insitu
pH (SU)	4.00	3GD708	Apr-25	Insitu
pH (SU)	7.00	3GE0720	May-25	Insitu
pH (SU)	10.00	3GD1219	Apr-25	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	3GF0202	Mar-24	Insitu

Calibration					
Time Start 7:20			**Time Finish 7:40**		
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	15.93	± 0.1	GWMP
pH (SU)	7.00	7.04	16.46	± 0.1	GWMP
pH (SU)	10.00	10.11	15.98	± 0.1	GWMP
D.O. (%)	N/A	100.00	15.92	± 10%	NA
ORP (mV)	229.0	229.0	15.51	± 10	EPA 2024

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	22.2	± 10% of standard	EPA 2023
	100	100		
	800	793		
	<0.10	0.12		

Calibration Check					
Time Start 14:35			**Time Finish 14:50**		
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	22.79	± 0.1	GWMP
pH (SU)	7.00	7.02	21.90	± 0.1	GWMP
pH (SU)	10.00	10.05	21.47	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.4	± 10% of standard	EPA 2023
	100	110		
	800	808		
	<0.10	0.11		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/22/2024

Calibrated By: Kim Lapszynski

Field Conditions: Sunny, Cold

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	867050
Turbidity Meter	Geotech	1069473

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	3G01148	Apr-24	Insitu
pH (SU)	4.00	3GD708	Apr-25	Insitu
pH (SU)	7.00	3GE0720	May-25	Insitu
pH (SU)	10.00	3GD1219	Apr-25	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	3GF0202	Mar-24	Insitu

Calibration					
Time Start 7:15			**Time Finish 7:35**		
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	16.18	± 0.1	GWMP
pH (SU)	7.00	7.04	16.64	± 0.1	GWMP
pH (SU)	10.00	10.11	16.31	± 0.1	GWMP
D.O. (%)	N/A	100.00	16.09	± 10%	NA
ORP (mV)	229.0	229.0	16.30	± 10	EPA 2024

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	21.4	± 10% of standard	EPA 2023
	100	114		
	800	816		
	<0.10	0.14		

Calibration Check					
Time Start 12:30			**Time Finish 12:50**		
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	19.66	± 0.1	GWMP
pH (SU)	7.00	7.02	20.72	± 0.1	GWMP
pH (SU)	10.00	10.05	20.80	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	19.3	± 10% of standard	EPA 2023
	100	102		
	800	814		
	<0.10	0.02		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/23/2024

Calibrated By: Kim Lapszynski

Field Conditions: Sunny, Cold

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	867050
Turbidity Meter	Geotech	1069473

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	3G01148	Apr-24	Insitu
pH (SU)	4.00	3GD708	Apr-25	Insitu
pH (SU)	7.00	3GE0720	May-25	Insitu
pH (SU)	10.00	3GD1219	Apr-25	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	3GF0202	Mar-24	Insitu

Calibration					
Time Start 7:30		**Time Finish 7:50**			
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	18.42	± 0.1	GWMP
pH (SU)	7.00	7.02	18.59	± 0.1	GWMP
pH (SU)	10.00	10.05	10.05	± 0.1	GWMP
D.O. (%)	N/A	100.00	17.97	± 10%	NA
ORP (mV)	240.0	238.1	18.09	± 10	EPA 2024

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	20	22.9	± 10% of standard	EPA 2023
	100	101		
	800	805		
	<0.10	0.08		

Calibration Check					
Time Start 11:35		**Time Finish 11:50**			
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	17.91	± 0.1	GWMP
pH (SU)	7.00	7.02	18.11	± 0.1	GWMP
pH (SU)	10.00	10.05	17.75	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	20	21.1	± 10% of standard	EPA 2023
	100	101		
	800	810		
	<0.10	0.02		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/20/2024

Calibrated By: Jake Swanson

Field Conditions: Sunny, Cold

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	808988
Turbidity Meter	Geotech	--

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	3G01148	Apr-24	Insitu
pH (SU)	4.00	3GD708	Apr-25	Insitu
pH (SU)	7.00	3GE0720	May-25	Insitu
pH (SU)	10.00	3GD1219	Apr-25	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	3GF0202	Mar-24	Insitu

Calibration					
Time Start 7:40			**Time Finish 8:05**		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,409	1,409	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	7.70	± 0.1	GWMP
pH (SU)	7.00	7.06	6.92	± 0.1	GWMP
pH (SU)	10.00	10.14	10.74	± 0.1	GWMP
D.O. (%)	N/A	100.00	12.31	± 10%	NA
ORP (mV)	240.0	246.1	11.99	± 10	EPA 2024

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20	± 10% of standard	EPA 2023
	100	100		
	800	800		
	<0.10	0.02		

Calibration Check					
Time Start 12:10			**Time Finish 12:35**		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,409	1,409	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	16.08	± 0.1	GWMP
pH (SU)	7.00	7.04	16.04	± 0.1	GWMP
pH (SU)	10.00	10.11	15.74	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20	± 10% of standard	EPA 2023
	100	100		
	800	800		
	<0.10	0.02		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/20/2024

Calibrated By: David Prouty

Field Conditions: Sunny, Cold

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	865176
Turbidity Meter	Geotech	19022029

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	3G01148	Apr-24	Insitu
pH (SU)	4.00	3GD708	Apr-25	Insitu
pH (SU)	7.00	3GE0720	May-25	Insitu
pH (SU)	10.00	3GD1219	Apr-25	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	3GF0202	Mar-24	Insitu

Calibration					
Time Start 8:45		**Time Finish 9:10**			
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	12.12	± 0.1	GWMP
pH (SU)	7.00	7.06	12.15	± 0.1	GWMP
pH (SU)	10.00	10.14	12.19	± 0.1	GWMP
D.O. (%)	N/A	100.00	13.10	± 10%	NA
ORP (mV)	240.0	245.2	12.71	± 10	EPA 2024

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.2	± 10% of standard	EPA 2023
	100	101		
	800	799		
	<0.10	0.12		

Calibration Check					
Time Start 14:50		**Time Finish 15:15**			
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	17.31	± 0.1	GWMP
pH (SU)	7.00	7.04	17.22	± 0.1	GWMP
pH (SU)	10.00	10.11	16.97	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20	± 10% of standard	EPA 2023
	100	100		
	800	799		
	<0.10	0.17		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/21/2024

Calibrated By: David Prouty

Field Conditions: Sunny, Cold

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	865176
Turbidity Meter	Geotech	19022029

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	3G01148	Apr-24	Insitu
pH (SU)	4.00	3GD708	Apr-25	Insitu
pH (SU)	7.00	3GE0720	May-25	Insitu
pH (SU)	10.00	3GD1219	Apr-25	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	3GF0202	Mar-24	Insitu

Calibration					
Time Start 7:15		**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	17.22	± 0.1	GWMP
pH (SU)	7.00	7.04	16.99	± 0.1	GWMP
pH (SU)	10.00	10.11	16.16	± 0.1	GWMP
D.O. (%)	N/A	100.00	18.01	± 10%	NA
ORP (mV)	240.0	240.9	15.98	± 10	EPA 2024

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	20	20.1	± 10% of standard	EPA 2023
	100	101		
	800	801		
	<0.10	0.1		

Calibration Check					
Time Start 11:50		**Time Finish 12:15**			
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	17.35	± 0.1	GWMP
pH (SU)	7.00	7.02	19.96	± 0.1	GWMP
pH (SU)	10.00	10.05	18.05	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	20	20.0	± 10% of standard	EPA 2023
	100	101		
	800	800		
	<0.10	0.11		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/22/2024

Calibrated By: David Prouty

Field Conditions: Sunny, Cold

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	865176
Turbidity Meter	Geotech	19022029

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	3G01148	Apr-24	Insitu
pH (SU)	4.00	3GD708	Apr-25	Insitu
pH (SU)	7.00	3GE0720	May-25	Insitu
pH (SU)	10.00	3GD1219	Apr-25	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	3GF0202	Mar-24	Insitu

Calibration					
Time Start 7:30		**Time Finish 7:50**			
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	17.46	± 0.1	GWMP
pH (SU)	7.00	7.02	17.75	± 0.1	GWMP
pH (SU)	10.00	10.05	17.55	± 0.1	GWMP
D.O. (%)	N/A	100.00	18.61	± 10%	NA
ORP (mV)	240.0	239.4	17.13	± 10	EPA 2024

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.2	± 10% of standard	EPA 2023
	100	101		
	800	802		
	<0.10	0.12		

Calibration Check					
Time Start 13:05		**Time Finish 13:20**			
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	16.93	± 0.1	GWMP
pH (SU)	7.00	7.02	18.72	± 0.1	GWMP
pH (SU)	10.00	10.11	17.40	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.1	± 10% of standard	EPA 2023
	100	100		
	800	800		
	<0.10	0.12		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/23/2024

Calibrated By: David Prouty

Field Conditions: Sunny, Cold

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	865176
Turbidity Meter	Geotech	19022029

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	3G01148	Apr-24	Insitu
pH (SU)	4.00	3GD708	Apr-25	Insitu
pH (SU)	7.00	3GE0720	May-25	Insitu
pH (SU)	10.00	3GD1219	Apr-25	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	3GF0202	Mar-24	Insitu

Calibration					
Time Start 7:15		**Time Finish 7:50**			
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	18.36	± 0.1	GWMP
pH (SU)	7.00	7.02	18.74	± 0.1	GWMP
pH (SU)	10.00	10.05	19.30	± 0.1	GWMP
D.O. (%)	N/A	100.00	19.19	± 10%	NA
ORP (mV)	240.0	240.4	16.35	± 10	EPA 2024

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	20	20.2	± 10% of standard	EPA 2023
	100	100		
	800	800		
	<0.10	0.09		

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

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

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/20/2024

Calibrated By: Jessica Ware

Field Conditions: Sunny, Cold

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	963011
Turbidity Meter	Geotech	23064780

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	3G01148	Apr-24	Insitu
pH (SU)	4.00	3GD708	Apr-25	Insitu
pH (SU)	7.00	3GE0720	May-25	Insitu
pH (SU)	10.00	3GD1219	Apr-25	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	3GF0202	Mar-24	Insitu

Calibration					
Time Start 7:35		**Time Finish 8:00**			
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	11.60	± 0.1	GWMP
pH (SU)	7.00	7.06	11.98	± 0.1	GWMP
pH (SU)	10.00	10.14	11.83	± 0.1	GWMP
D.O. (%)	N/A	100.00	11.44	± 10%	NA
ORP (mV)	229.0	229.0	12.04	± 10	EPA 2024

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	20	20.2	± 10% of standard	EPA 2023
	100	97.1		
	800	805		
	<0.10	0.02		

Calibration Check					
Time Start 12:10		**Time Finish 12:20**			
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	12.06	± 0.1	GWMP
pH (SU)	7.00	7.06	12.01	± 0.1	GWMP
pH (SU)	10.00	10.14	11.90	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	20	19.4	± 10% of standard	EPA 2023
	100	99.5		
	800	799		
	<0.10	0.02		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/21/2024

Calibrated By: Jessica Ware

Field Conditions: Sunny, Cold

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	963011
Turbidity Meter	Geotech	23064780

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	3G01148	Apr-24	Insitu
pH (SU)	4.00	3GD708	Apr-25	Insitu
pH (SU)	7.00	3GE0720	May-25	Insitu
pH (SU)	10.00	3GD1219	Apr-25	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	3GF0202	Mar-24	Insitu

Calibration					
Time Start 7:35		**Time Finish 8:00**			
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	15.39	± 0.1	GWMP
pH (SU)	7.00	7.04	15.88	± 0.1	GWMP
pH (SU)	10.00	10.11	15.67	± 0.1	GWMP
D.O. (%)	N/A	100.00	15.75	± 10%	NA
ORP (mV)	229.0	229.0	15.62	± 10	EPA 2024

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	20	19.9	± 10% of standard	EPA 2023
	100	101		
	800	803		
	<0.10	0.02		

Calibration Check					
Time Start 14:30		**Time Finish 14:50**			
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	26.84	± 0.1	GWMP
pH (SU)	7.00	7.00	26.96	± 0.1	GWMP
pH (SU)	10.00	10.00	24.75	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	20	20.2	± 10% of standard	EPA 2023
	100	100		
	800	800		
	<0.10	0.02		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/22/2024

Calibrated By: Jessica Ware

Field Conditions: Sunny, Cold

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	963011
Turbidity Meter	Geotech	23064780

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	3G01148	Apr-24	Insitu
pH (SU)	4.00	3GD708	Apr-25	Insitu
pH (SU)	7.00	3GE0720	May-25	Insitu
pH (SU)	10.00	3GD1219	Apr-25	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	3GF0202	Mar-24	Insitu

Calibration					
Time Start 7:25		**Time Finish 7:50**			
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	16.53	± 0.1	GWMP
pH (SU)	7.00	7.04	16.63	± 0.1	GWMP
pH (SU)	10.00	10.11	16.62	± 0.1	GWMP
D.O. (%)	N/A	100.00	16.71	± 10%	NA
ORP (mV)	229.0	229.0	16.75	± 10	EPA 2024

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.9	± 10% of standard	EPA 2023
	100	99.7		
	800	800		
	<0.10	0.04		

Calibration Check					
Time Start 15:05		**Time Finish 15:25**			
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	22.06	± 0.1	GWMP
pH (SU)	7.00	7.02	22.50	± 0.1	GWMP
pH (SU)	10.00	10.05	22.26	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.5	± 10% of standard	EPA 2023
	100	100		
	800	806		
	<0.10	0.02		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/23/2024

Calibrated By: Jessica Ware

Field Conditions: Sunny, Cold

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	963011
Turbidity Meter	Geotech	23064780

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	3G01148	Apr-24	Insitu
pH (SU)	4.00	3GD708	Apr-25	Insitu
pH (SU)	7.00	3GE0720	May-25	Insitu
pH (SU)	10.00	3GD1219	Apr-25	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	3GF0202	Mar-24	Insitu

Calibration					
Time Start 7:25		**Time Finish 8:05**			
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	18.60	± 0.1	GWMP
pH (SU)	7.00	7.02	18.35	± 0.1	GWMP
pH (SU)	10.00	10.05	18.42	± 0.1	GWMP
D.O. (%)	N/A	100.00	18.18	± 10%	NA
ORP (mV)	240.0	240.0	17.94	± 10	EPA 2024

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	19.6	± 10% of standard	EPA 2023
	100	101		
	800	806		
	<0.10	0.03		

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	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	23.58	± 0.1	GWMP
pH (SU)	7.00	7.00	23.82	± 0.1	GWMP
pH (SU)	10.00	10.00	23.67	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	19.9	± 10% of standard	EPA 2023
	100	101		
	800	806		
	<0.10	0.02		

Notes:

Groundwater Gauging Log

Client:	Georgia Power
Project Location:	AMA R6 CCR Landfill
Date:	2/19/2024
Sampler:	Jessica Ware Jake Swanson
Equipment:	water probe

Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
PZ-24IB	2/19/2024	11:08:00	28.06	73.42	--
YGWC-24SB	2/19/2024	11:09:00	27.64	57.79	--
PZ-52D	2/19/2024	11:39:00	6.53	92.00	--
PZ-53D	2/19/2024	11:41:00	4.96	160.00	--
PZ-37D	2/19/2024	11:42:00	3.36	202.44	--
PZ-37	2/19/2024	11:46:00	11.54	49.78	--
YGWC-23S	2/19/2024	11:58:00	16.59	38.91	--
YAMW-5	2/19/2024	12:02:00	16.54	90.34	--
YGWC-38	2/19/2024	12:05:00	31.91	50.59	--
YAMW-2	2/19/2024	12:18:00	24.95	46.48	--
YAMW-4	2/19/2024	12:21:00	34.13	96.55	--
YGWC-41	2/19/2024	12:26:00	30.40	67.32	--
YAMW-3	2/19/2024	12:32:00	38.96	91.44	--
PZ-54D	2/19/2024	12:34:00	128.92	137.06	--
PZ-56D	2/19/2024	12:38:00	44.95	198.06	--
YGWC-42	2/19/2024	12:41:00	29.96	59.76	--
PZ-55	2/19/2024	12:49:00	31.50	--	--
YGWC-43	2/19/2024	12:53:00	19.82	79.66	--
PZ-51	2/19/2024	12:56:00	10.52	36.00	--
PZ-35	2/19/2024	13:07:00	10.82	50.01	--
YAMW-1	2/19/2024	13:08:00	10.66	69.93	--
YGWC-36A	2/19/2024	13:10:00	9.75	51.20	--
PZ-48	2/19/2024	13:16:00	23.31	58.73	--
YGWC-49	2/19/2024	13:20:00	34.10	78.53	--
PZ-06D	2/19/2024	13:26:00	24.74	134.02	--

Groundwater Gauging Log

Client:	Georgia Power
Project Location:	AMA R6 CCR Landfill
Date:	2/19/2024
Sampler:	Jessica Ware Jake Swanson
Equipment:	water probe

Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
YGWA-6S	2/19/2024	13:28:00	22.02	39.87	--
YGWA-6I	2/19/2024	13:30:00	22.02	69.03	--
YGWC-50	2/19/2024	13:56:00	7.69	39.28	--
PZ-05S	2/19/2024	14:22:00	20.99	41.94	--
PZ-04S	2/19/2024	14:27:00	26.62	33.33	--

Groundwater Sampling Form

Updated : 2/21/2024 4:06:34 PM +00:00

Project Number	30143622	**Well ID**	PZ-52D			**Date**	2/21/2024
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	It is Clear. The wind is blowing S/SE at 4.7 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	82	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	6.55	**Total Depth (ft-bmp)**	92	**Water Column(ft)**	85.45	**Gallons in Well**	13.88
MP Elevation	762.79	**Pump Intake (ft-bmp)**	87	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	10:58	**Well Volumes Purged**		**Sample ID**	YAT-PZ-52D	**Sampled by**	Jessica Ware
Purge Start	10:31	**Gallons Purged**		**Replicate/ Code No.**		**Color**	Clear
Purge End	10:57						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
10:31:00	00:00	300	7.38	6.62	641.61	3.22	8.22	15.20	62.80
10:36:00	05:00	250	8.88	6.06	776.59	9.05	0.37	16.80	-27.88
10:41:00	10:00	200	9.76	6.04	778.95	7.89	0.29	16.80	-44.52
10:46:00	15:00	150	10.26	6.02	784.80	4.91	0.25	17.00	-49.41
10:51:00	20:00	125	10.37	6.00	789.14	3.90	0.26	17.20	-51.53
10:56:00	25:00	125	10.39	5.98	794.49	3.30	0.26	17.40	-47.49

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
App III/IV, Ca, Na, K, Mg	250 mL Plastic	1	HNO3
Cl, F, SO4	250 mL Plastic	1	None
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 : 2/21/2024 6:02:59 PM +00:00

Project Number	30052922	**Well ID**	YAMW-3			**Date**	2/21/2024
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	62.1 degrees F and Clear. The wind is blowing S/SW at 8.1 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	81.45	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	38.92	**Total Depth (ft-bmp)**	91.44	**Water Column(ft)**	52.52	**Gallons in Well**	8.53
MP Elevation	796.05	**Pump Intake (ft-bmp)**	86.5	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	12:02	**Well Volumes Purged**	0.29	**Sample ID**	YAT-YAMW-3	**Sampled by**	Mark Chest
Purge Start	10:59	**Gallons Purged**	2.44	**Replicate/ Code No.**		**Color**	Clear
Purge End	11:59						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
10:59:00	00:00	200	38.91	5.71	894.08	15.10	1.60	17.80	215.83
11:04:00	05:00	150	41.93	5.71	884.55	7.23	0.50	17.80	218.69
11:09:00	10:00	150	42.8	5.71	875.80	9.51	0.56	17.90	216.95
11:14:00	15:00	150	43.89	5.72	848.36	4.52	0.55	17.90	217.52
11:19:00	20:00	150	44.35	5.71	831.98	2.59	0.72	18.60	213.51
11:24:00	25:00	150	44.4	5.70	817.26	3.03	0.63	18.70	216.07
11:29:00	30:00	150	44.51	5.73	809.29	2.31	0.60	18.60	213.62
11:34:00	35:00	150	44.62	5.73	788.07	1.37	0.57	18.50	213.41
11:39:00	40:00	150	44.69	5.73	766.07	1.18	0.54	18.70	213.83
11:44:00	45:00	150	44.78	5.73	769.66	0.81	0.51	18.80	212.75
11:49:00	50:00	150	44.81	5.69	822.80	0.02	0.48	18.90	214.09
11:54:00	55:00	150	44.91	5.66	832.14	0.02	0.46	18.80	214.33
11:59:00	00:00	150	44.94	5.65	844.86	0.02	0.44	18.90	213.42

Constituent Sampled	Container	Number	Preservative
ALK	250 mL Plastic	1	None
Cl, F, SO4	250 mL Plastic	1	None
Metals	250 mL Plastic	1	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

Groundwater Sampling Form

Updated : 2/21/2024 7:20:50 PM +00:00

Project Number	30143622	**Well ID**	PZ-37D			**Date**	2/21/2024
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	It is Clear. The wind is blowing S/SE at 4.7 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	192.44	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	3.41	**Total Depth (ft-bmp)**	202.44	**Water Column(ft)**	199.03	**Gallons in Well**	32.34
MP Elevation	761.12	**Pump Intake (ft-bmp)**	197	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	14:13	**Well Volumes Purged**		**Sample ID**	YAT-PZ-37D	**Sampled by**	Jessica Ware
Purge Start	13:20	**Gallons Purged**		**Replicate/ Code No.**		**Color**	Clear
Purge End	14:12						

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)
13:20:00	00:00	200		7.05	595.97		7.53	20.40	17.44
13:25:00	05:00	150	3.43	7.54	604.12	1.84	2.24	17.90	-162.26
13:30:00	10:00	150	4.96	7.76	830.75	1.31	0.99	17.60	-213.57
13:35:00	15:00	125	6.13	8.18	1400.28	1.60	0.54	17.70	-219.90
13:40:00	20:00	100	6.63	8.28	1486.14	1.22	0.53	17.90	-215.45
13:45:00	25:00	100	7.1	8.31	1465.57	1.72	0.50	18.00	-220.88
13:50:00	30:00	100	7.51	8.28	1374.32	1.66	0.45	18.30	-234.63
13:55:00	35:00	100	7.91	8.23	1265.48	1.32	0.39	18.20	-247.06
14:00:00	40:00	100	8.25	8.19	1194.59	1.37	0.35	18.40	-255.30
14:05:00	45:00	75	8.34	8.18	1167.43	1.36	0.34	18.60	-256.97
14:10:00	50:00	75	8.42	8.17	1156.27	1.42	0.33	18.60	-259.10

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
App III/IV Metals, Ca, Na, K, Mg	250 mL Plastic	1	HNO3
Cl, F, SO4	250 mL Plastic	1	None
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None

Comments: Approved to purge and sample under 100mL/min from G. Gay at 1357

Well Casing Volume Conversion

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

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Groundwater Sampling Form

Updated : 2/21/2024 9:51:40 PM +00:00

Project Number	30143622	**Well ID**	YGWC-23S			**Date**	2/21/2024
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	66.9 degrees F and Clear. The wind is blowing W at 4.7 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	28.61	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	16.36	**Total Depth (ft-bmp)**	38.91	**Water Column(ft)**	22.55	**Gallons in Well**	3.66
MP Elevation	764.91	**Pump Intake (ft-bmp)**	34	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	16:37	**Well Volumes Purged**	0.57	**Sample ID**	YAT-YGWC-23S	**Sampled by**	Jessica Ware
Purge Start	15:34	**Gallons Purged**	2.08	**Replicate/ Code No.**		**Color**	Clear
Purge End	16:36						

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)
15:34:00	00:00	150	16.36	6.67	205.53	10.50	8.29	19.40	179.20
15:39:00	05:00	150	16.75	5.49	220.49	16.50	7.80	18.50	204.44
15:44:00	10:00	150	16.65	5.46	221.49	12.90	7.65	18.40	204.05
15:49:00	15:00	125	16.68	5.46	223.05	15.10	7.56	18.70	203.57
15:54:00	20:00	125	16.65	5.43	221.01	14.40	7.52	18.50	207.05
15:59:00	25:00	125	16.64	5.42	222.23	12.90	7.50	18.40	208.34
16:04:00	30:00	125	16.64	5.42	220.75	8.92	7.49	18.40	208.20
16:09:00	35:00	125	16.66	5.41	220.78	7.29	7.52	18.30	208.99
16:14:00	40:00	125	16.67	5.41	219.61	5.95	7.50	18.40	208.67
16:19:00	45:00	125	16.66	5.42	219.57	5.31	7.52	18.40	208.65
16:24:00	50:00	125	16.63	5.42	218.25	4.97	7.48	18.40	208.68
16:29:00	55:00	125	16.65	5.43	218.41	4.52	7.50	18.40	208.60
16:34:00	00:00	125	16.63	5.43	217.61	4.35	7.50	18.20	208.84

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

Groundwater Sampling Form

Updated : 2/21/2024 10:47:14 PM +00:00

Project Number	30143623	**Well ID**	YGWC-49			**Date**	2/21/2024
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	66.9 degrees F and Clear. The wind is blowing S at 4.7 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	68.03	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	34.05	**Total Depth (ft-bmp)**	78.53	**Water Column(ft)**	44.48	**Gallons in Well**	7.23
MP Elevation	782.73	**Pump Intake (ft-bmp)**	73	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	17:25	**Well Volumes Purged**	0.15	**Sample ID**	YAT-YGWC-49	**Sampled by**	Kim Lapszynski
Purge Start	17:01	**Gallons Purged**	1.06	**Replicate/ Code No.**		**Color**	Clear
Purge End	17:22						

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)
17:01:00	00:00	200	34.05	7.01	200.64	2.63	8.44	19.60	131.94
17:06:00	05:00	200	34.61	5.35	165.17	0.81	3.16	17.80	150.54
17:11:00	10:00	200	34.62	5.30	200.82	0.75	3.05	17.60	159.05
17:16:00	15:00	200	34.68	5.29	200.95	0.54	3.01	17.50	165.59
17:21:00	20:00	200	34.69	5.29	202.33	0.61	2.98	17.50	169.44

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
App III/IV, Ca, Na, K, Mg	250 mL Plastic	1	HNO3
Cl, F, SO4	250 mL Plastic	1	None
RAD 226/228	1L Plastic	2	HNO3
Total Dissolved Solids	500 mL Plastic	1	None

Comments: No comments.

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 : 2/22/2024 12:48:59 AM +00:00

Project Number	30143622	**Well ID**	PZ-37			**Date**	2/21/2024
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	It is Clear. The wind is blowing S/SE at 4.7 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	39.28	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	11.49	**Total Depth (ft-bmp)**	49.78	**Water Column(ft)**	38.29	**Gallons in Well**	6.22
MP Elevation	760.78	**Pump Intake (ft-bmp)**	45	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	09:54	**Well Volumes Purged**		**Sample ID**	YAT-PZ-37	**Sampled by**	Jessica Ware
Purge Start	09:31	**Gallons Purged**		**Replicate/ Code No.**		**Color**	Clear
Purge End	09:53						

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)
9:31:00	00:00	250	11.68	6.35	1123.94	2.72	8.17	13.30	249.55
9:36:00	05:00	250	11.85	5.31	1056.64	2.42	2.92	16.60	212.10
9:41:00	10:00	250	11.86	5.20	1066.15	2.03	2.51	17.00	199.87
9:46:00	15:00	250	11.85	5.15	1064.51	2.36	2.44	17.00	195.63
9:51:00	20:00	250	11.83	5.12	1063.73	2.33	2.44	17.00	194.52

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
App III/IV, Ca, Na, K, Mg	250 mL Plastic	1	HNO3
Cl, F, SO4	250 mL Plastic	1	None
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 : 2/22/2024 3:33:39 PM +00:00

Project Number	30143623	**Well ID**	YGWC-38			**Date**	2/22/2024
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	It is Clear. The wind is blowing S/SW at 4.7 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	39.59	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	31.79	**Total Depth (ft-bmp)**	50.59	**Water Column(ft)**	18.80	**Gallons in Well**	3.05
MP Elevation	799.69	**Pump Intake (ft-bmp)**	45	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	09:48	**Well Volumes Purged**	0.39	**Sample ID**	YAT-YGWC-38	**Sampled by**	Kim Lapszynski
Purge Start	09:15	**Gallons Purged**	1.19	**Replicate/ Code No.**	YAT-AMA-R6-FD-2	**Color**	Clear
Purge End	09:46						

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)
9:15:00	00:00	150	31.79	7.12	564.27	1.43	10.16	13.50	203.86
9:20:00	05:00	150	32.66	5.19	555.83	12.40	3.81	16.40	201.99
9:25:00	10:00	150	32.84	5.08	546.01	10.40	3.53	16.30	199.78
9:30:00	15:00	150	32.93	5.04	543.23	5.59	3.57	16.30	199.16
9:35:00	20:00	150	32.95	5.03	542.17	2.02	3.58	16.40	196.90
9:40:00	25:00	150	32.95	5.03	542.59	1.14	3.60	16.40	196.56
9:45:00	30:00	150	32.94	5.03	542.99	1.27	3.73	16.40	194.99

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	2	None
App III/IV Metals, Ca, Na, K, Mg	250 mL Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	2	None
RAD 226/228	1L Plastic	4	HNO3
Total Dissolved Solids	500 mL Plastic	2	None

Comments: No transducer in well.

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 : 2/22/2024 3:49:18 PM +00:00

Project Number	30143622	**Well ID**	YGWC-50			**Date**	2/22/2024
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	It is Clear. The wind is blowing S/SW at 4.7 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	27.98	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	7.71	**Total Depth (ft-bmp)**	39.28	**Water Column(ft)**	31.57	**Gallons in Well**	5.13
MP Elevation	729.78	**Pump Intake (ft-bmp)**	36	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	10:20	**Well Volumes Purged**		**Sample ID**	YAT-YGWC-50	**Sampled by**	Jessica Ware
Purge Start	09:51	**Gallons Purged**		**Replicate/ Code No.**		**Color**	Clear
Purge End	10:19						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
9:51:00	00:00	150	7.71	5.28	2021.10	9.27	5.20	14.90	222.41
9:56:00	05:00	125	7.89	5.22	2017.66	8.43	4.43	15.40	241.48
10:01:00	10:00	125	7.92	5.07	2044.76	4.17	0.63	15.50	226.24
10:06:00	15:00	125	7.94	5.04	2057.37	3.75	0.31	15.80	217.24
10:11:00	20:00	125	7.94	5.00	2043.40	3.29	0.20	15.90	214.75
10:16:00	25:00	125	7.94	5.00	2027.28	2.37	0.12	16.00	214.21

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
App III/IV Metals, Ca, Na, K, Mg	250 mL Plastic	1	HNO3
Cl, F, SO4	250 mL Plastic	1	None
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 : 7/11/2024 7:56:04 PM +00:00

Project Number	30143623	**Well ID**	YAMW-5			**Date**	2/22/2024
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	57.0 degrees F and Clear. The wind is blowing SW at 5.8 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	80.3	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	16.42	**Total Depth (ft-bmp)**	90.34	**Water Column(ft)**	73.92	**Gallons in Well**	12.01
MP Elevation	788.9	**Pump Intake (ft-bmp)**	86.3	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	11:15	**Well Volumes Purged**	0.08	**Sample ID**	YAT-YAMW-5	**Sampled by**	Kim Lapszynski
Purge Start	10:47	**Gallons Purged**	0.99	**Replicate/ Code No.**	YAT-AMA-R6-FB-1	**Color**	Clear
Purge End	11:12						

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)
10:47:00	00:00	150	16.42	6.35	795.95	1.28	9.39	16.40	182.54
10:52:00	05:00	150	17.01	5.40	890.11	0.61	2.11	17.10	183.56
10:57:00	10:00	150	17.21	5.41	915.44	0.75	1.50	17.00	179.23
11:02:00	15:00	150	17.39	5.42	890.96	1.37	1.52	17.10	177.74
11:07:00	20:00	150	17.5	5.41	881.09	0.49	1.51	17.10	177.30
11:12:00	25:00	150	17.57	5.41	874.98	1.38	1.51	17.20	176.39

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	2	None
App III/IV Metals, Ca, Na, K, Mg	250 mL Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	2	None
RAD 226/228	1L Plastic	4	HNO3
Total Dissolved Solids	500 mL Plastic	2	None

Comments: No comments.

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 : 2/22/2024 5:48:32 PM +00:00

Project Number	30143623	**Well ID**	YAMW-2			**Date**	2/22/2024
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	63.9 degrees F and Clear. The wind is blowing W/SW at 9.2 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	36.44	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	24.72	**Total Depth (ft-bmp)**	46.48	**Water Column(ft)**	21.76	**Gallons in Well**	3.54
MP Elevation	781.04	**Pump Intake (ft-bmp)**	41.44	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	12:20	**Well Volumes Purged**	0.30	**Sample ID**	YAT-YAMW-2	**Sampled by**	Kim Lapszynski
Purge Start	11:57	**Gallons Purged**	1.06	**Replicate/ Code No.**		**Color**	Clear
Purge End	12:17						

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)
11:57:00	00:00	200	24.72	6.74	76.78	1.38	9.50	16.80	137.95
12:02:00	05:00	200	24.82	5.21	60.47	5.40	3.84	17.30	180.19
12:07:00	10:00	200	24.82	5.35	59.85	2.91	3.58	17.40	173.85
12:12:00	15:00	200	24.83	5.41	59.49	1.87	3.61	17.30	172.87
12:17:00	20:00	200	24.83	5.42	59.21	1.64	3.66	17.40	178.71

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
App III/IV Metals, Ca, Na, K, Mg	250 mL Plastic	1	HNO3
Cl, F, SO4	250 mL Plastic	1	None
RAD 226/228	1L Plastic	2	HNO3
Total Dissolved Solids	500 mL Plastic	1	None

Comments: No comments.

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 : 2/22/2024 7:43:30 PM +00:00

Project Number	30143623	**Well ID**	YAMW-4			**Date**	2/22/2024
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	65.3 degrees F and Clear. The wind is blowing S/SW at 9.2 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	86.59	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	33.98	**Total Depth (ft-bmp)**	96.55	**Water Column(ft)**	62.57	**Gallons in Well**	10.17
MP Elevation	805.59	**Pump Intake (ft-bmp)**	91.55	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	13:52	**Well Volumes Purged**	0.14	**Sample ID**	YAT-YAMW-4	**Sampled by**	Kim Lapszynski
Purge Start	13:05	**Gallons Purged**	1.45	**Replicate/ Code No.**		**Color**	Clear
Purge End	13:50						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
13:05:00	00:00	150	33.98	7.08	666.71	1.90	9.00	19.70	198.60
13:10:00	05:00	150	34.96	6.11	630.56	0.45	4.05	19.50	192.61
13:15:00	10:00	150	35.1	6.00	655.98	1.23	2.74	19.20	195.09
13:20:00	15:00	150	35.84	5.91	720.46	0.70	0.83	18.30	197.23
13:25:00	20:00	100	36.34	5.94	723.37	0.47	0.49	18.60	190.34
13:30:00	25:00	100	36.56	5.97	720.23	0.53	0.50	18.60	190.09
13:35:00	30:00	100	36.71	5.98	714.39	0.85	0.71	18.50	185.74
13:40:00	35:00	100	36.9	5.99	700.56	0.48	0.95	18.70	185.44
13:45:00	40:00	100	37.04	5.99	696.93	0.75	1.03	18.60	181.60
13:50:00	45:00	100	37.2	5.99	693.18	0.86	1.11	18.90	181.01

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
App III/IV Metals, Ca, Na, K, Mg	250 mL Plastic	1	HNO3
Cl, F, SO4	250 mL Plastic	1	None
RAD 226/228	1L Plastic	2	HNO3
Total Dissolved Solids	500 mL Plastic	1	None

Comments: Collected YAT-AMA-R6-EB-1 after sampling @ 1440.

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 : 2/22/2024 8:45:45 PM +00:00

Project Number	30143622	**Well ID**	PZ-55			**Date**	2/22/2024
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	62.2 degrees F and Clear. The wind is blowing SW at 9.2 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	57.72	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	31.22	**Total Depth (ft-bmp)**	67.72	**Water Column(ft)**	36.50	**Gallons in Well**	5.93
MP Elevation	774.02	**Pump Intake (ft-bmp)**	62.72	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	14:39	**Well Volumes Purged**		**Sample ID**	YAT-PZ-55	**Sampled by**	Jessica Ware
Purge Start	12:20	**Gallons Purged**		**Replicate/ Code No.**		**Color**	Clear
Purge End	14:38						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
12:20:00	00:00	100	32.11	5.79	435.81	6.84	1.88	18.70	136.86
12:25:00	05:00	100	32.74	5.74	394.52	5.76	1.40	18.00	134.87
12:30:00	10:00	100	33.2	5.74	388.65	4.81	1.32	17.80	133.17
12:35:00	15:00	100	33.68	5.73	380.96	4.55	1.28	17.70	135.87
12:40:00	20:00	65	33.96	5.74	378.15	4.81	1.27	18.00	137.92
12:45:00	25:00	65	34.11	5.75	373.36	4.34	1.28	18.90	136.85
12:50:00	30:00	45	34.23	5.77	368.60	4.17	1.29	19.10	138.05
12:55:00	35:00	45	34.35	5.77	367.64	4.96	1.29	19.40	139.90
13:00:00	40:00	45	34.45	5.77	358.84	5.19	1.31	19.30	142.46
13:05:00	45:00	45	34.57	5.76	362.61	4.99	1.31	19.30	144.73
13:10:00	50:00	45	34.69	5.76	355.84	4.23	1.30	19.00	147.79
13:15:00	55:00	45	34.82	5.75	348.13	4.03	1.28	18.80	150.36
13:20:00	00:03	45	34.96	5.75	343.14	4.65	1.27	18.60	151.85
13:25:00	05:03	45	35.07	5.75	338.14	3.99	1.24	18.90	153.61
13:30:00	10:03	45	35.19	5.75	333.23	4.20	1.22	18.90	156.19
13:35:00	15:03	45	35.3	5.74	315.17	4.02	1.22	19.10	157.82
13:40:00	20:03	45	35.43	5.74	354.61	3.93	1.20	19.20	158.11
13:45:00	25:03		35.43	5.78	0.06	0.00	5.35	21.00	152.78
13:50:00	30:03	50	35.68	5.73	390.87	4.11	1.44	19.40	157.08
13:55:00	35:03	50	35.86	5.72	388.37	4.49	1.35	20.10	158.58
14:00:00	40:03		35.86	5.88	0.06	0.00	8.39	21.90	161.48
14:05:00	45:03		35.86	5.80	0.06	0.00	8.04	24.60	160.41
14:10:00	50:03	45	35.88	5.72	394.46	4.67	2.03	22.20	156.67
14:15:00	55:03	45	35.9	5.72	393.04	4.27	1.88	22.60	158.28
14:20:00	00:03	45	36.01	5.71	390.08	4.00	1.76	22.10	160.77
14:25:00	05:03	45	36.1	5.70	383.65	4.67	1.57	21.10	162.99

Groundwater Sampling Form

14:30:00	10:03	45	36.21	5.70	384.18	3.87	1.49	19.80	164.35
14:35:00	15:03	45	36.36	5.69	383.31	4.34	1.39	19.00	165.95

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
App III/IV, Ca, Na, Mg, K	250 mL Plastic	1	HNO3
Cl, F, SO4	250 mL Plastic	1	None
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None

Comments: Approved to sample at 45mL/min by G. Gay

Well Casing Volume Conversion

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

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Well Completion: _____ Key Number To Well: _____

Groundwater Sampling Form

Updated : 2/22/2024 9:08:22 PM +00:00

Project Number	30143623	**Well ID**	YGWC-41			**Date**	2/22/2024
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	68.7 degrees F and Clear. The wind is blowing S/SW at 13.9 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	56.82	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	30.28	**Total Depth (ft-bmp)**	67.32	**Water Column(ft)**	37.04	**Gallons in Well**	6.02
MP Elevation	803.92	**Pump Intake (ft-bmp)**	62	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	15:33	**Well Volumes Purged**	0.16	**Sample ID**	YAT-YGWC-41	**Sampled by**	Kim Lapszynski
Purge Start	15:06	**Gallons Purged**	0.96	**Replicate/ Code No.**		**Color**	Clear
Purge End	15:31						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
15:06:00	00:00	175	30.28	6.67	346.43	2.25	8.80	20.00	147.28
15:11:00	05:00	175	30.92	4.81	416.28	0.81	4.18	18.40	193.13
15:16:00	10:00	125	30.82	4.77	417.53	0.25	4.01	18.50	201.95
15:21:00	15:00	125	30.84	4.79	415.83	0.19	3.91	18.40	206.89
15:26:00	20:00	125	30.84	4.81	415.71	0.25	3.91	18.20	207.24
15:31:00	25:00	125	30.84	4.84	416.29	0.29	3.97	18.30	210.56

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

Comments: No comments.

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 : 2/22/2024 10:44:10 PM +00:00

Project Number	30143623	**Well ID**	YGWC-42			**Date**	2/22/2024
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	69.8 degrees F and Clear. The wind is blowing S/SW at 9.2 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	49.36	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	29.89	**Total Depth (ft-bmp)**	59.76	**Water Column(ft)**	29.87	**Gallons in Well**	4.85
MP Elevation	797.86	**Pump Intake (ft-bmp)**	55	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	17:08	**Well Volumes Purged**	0.22	**Sample ID**	YAT-YGWC-42	**Sampled by**	Kim Lapszynski
Purge Start	16:25	**Gallons Purged**	1.06	**Replicate/ Code No.**		**Color**	Clear
Purge End	17:05						

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)
16:25:00	00:00	100	29.89	6.11	1261.44	2.04	8.06	19.00	177.74
16:30:00	05:00	100	30.65	5.72	1307.79	1.70	2.70	18.50	69.89
16:35:00	10:00	100	30.99	5.61	1287.61	1.43	1.52	18.30	77.96
16:40:00	15:00	100	31.25	5.59	1325.55	2.35	1.31	18.20	96.66
16:45:00	20:00	100	31.47	5.59	1322.78	1.68	1.23	18.10	113.30
16:50:00	25:00	100	31.65	5.60	1328.08	1.21	1.15	18.00	124.60
16:55:00	30:00	100	31.81	5.60	1335.90	1.25	1.09	18.00	133.53
17:00:00	35:00	100	31.96	5.61	1342.09	1.03	1.11	17.90	140.71
17:05:00	40:00	100	32.06	5.61	1345.34	1.21	1.09	18.00	146.38

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
App III/IV Metals, Ca, Na, K, Mg	250 mL Plastic	1	HNO3
Cl, F, SO4	250 mL Plastic	1	None
RAD 226/228	1L Plastic	2	HNO3
Total Dissolved Solids	500 mL Plastic	1	None

Comments: No comments.

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 : 2/23/2024 1:31:53 AM +00:00

Project Number	30143622	**Well ID**	PZ-51			**Date**	2/22/2024
Project Location	AMA R6 CCR Landfill		**Weather(°F)**				
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	26.3	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	10.42	**Total Depth (ft-bmp)**	36	**Water Column(ft)**	25.58	**Gallons in Well**	4.16
MP Elevation	744.3	**Pump Intake (ft-bmp)**	32	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	17:30	**Well Volumes Purged**		**Sample ID**	YAT-PZ-51	**Sampled by**	Jessica Ware
Purge Start	17:08	**Gallons Purged**		**Replicate/ Code No.**		**Color**	Clear
Purge End	17:29						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
17:08:00	00:00	150	10.78	5.17	668.87	4.10	8.20	17.50	105.52
17:13:00	05:00	250	10.91	4.95	683.90	3.15	3.17	16.70	159.23
17:18:00	10:00	250	11	4.91	683.86	3.02	2.94	16.80	187.38
17:23:00	15:00	250	11.05	4.90	683.77	2.68	2.85	16.70	205.88
17:28:00	20:00	250	11.08	4.90	683.90	2.72	2.77	16.80	219.88

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
App III/IV metals, Ca, Mg, Na, K	250 mL Plastic	1	HNO3
Cl, F, SO4	250 mL Plastic	1	None
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 : 2/23/2024 1:32:23 AM +00:00

Project Number	30143622	**Well ID**	YGWC-43			**Date**	2/22/2024
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	69.8 degrees F and Clear. The wind is blowing S/SW at 9.2 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	69.16	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	19.53	**Total Depth (ft-bmp)**	79.66	**Water Column(ft)**	60.13	**Gallons in Well**	9.77
MP Elevation	744.96	**Pump Intake (ft-bmp)**	75	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	16:51	**Well Volumes Purged**		**Sample ID**	YAT-YGWC-43	**Sampled by**	Jessica Ware
Purge Start	16:24	**Gallons Purged**		**Replicate/ Code No.**		**Color**	Clear
Purge End	16:50						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
16:24:00	00:00	250	19.52	6.13	366.00		8.87	18.20	188.48
16:29:00	05:00	250	19.72	5.70	365.33	2.42	0.42	17.50	94.46
16:34:00	10:00	250	19.68	5.73	367.47	1.85	0.21	17.30	86.26
16:39:00	15:00	250	19.76	5.76	401.98	2.02	0.14	17.20	80.49
16:44:00	20:00	250	19.78	5.79	402.87	1.85	0.14	17.20	74.87
16:49:00	25:00	250	19.82	5.81	403.42	1.89	0.14	17.10	70.91

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
App III/IV Metals, Ca, Na, K, Mg	250 mL Plastic	1	HNO3
Cl, F, SO4	250 mL Plastic	1	None
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 : 2/23/2024 3:24:19 PM +00:00

Project Number	30143623	**Well ID**	YAMW-1			**Date**	2/23/2024
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	53.4 degrees F and Clear. The wind is blowing W/NW at 4.7 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	59.6	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	10.48	**Total Depth (ft-bmp)**	69.93	**Water Column(ft)**	59.45	**Gallons in Well**	9.66
MP Elevation	743.83	**Pump Intake (ft-bmp)**	64.6	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	09:20	**Well Volumes Purged**	0.15	**Sample ID**	YAT-YAMW-1	**Sampled by**	Kim Lapszynski
Purge Start	08:42	**Gallons Purged**	1.45	**Replicate/ Code No.**	YAT-AMA-R6-FD-1	**Color**	Clear
Purge End	09:17						

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)
8:42:00	00:00	200	10.48	6.64	445.05	0.62	7.76	15.70	218.82
8:47:00	05:00	150	11.32	5.51	553.47	20.60	1.59	17.10	214.88
8:52:00	10:00	150	11.45	5.49	584.39	14.60	1.40	17.30	218.68
8:57:00	15:00	150	11.5	5.53	588.15	9.00	1.32	17.40	216.36
9:02:00	20:00	150	11.52	5.54	587.37	5.31	1.30	17.40	213.63
9:07:00	25:00	150	11.56	5.52	590.59	3.98	1.31	17.50	209.81
9:12:00	30:00	150	11.6	5.50	593.79	2.50	1.32	17.50	210.91
9:17:00	35:00	150	11.61	5.50	593.88	2.07	1.32	17.50	213.36

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	2	None
App III/IV Metals, Ca, Na, K, Mg	250 mL Plastic	2	HNO3
Cl, F, SO4	250 mL Plastic	2	None
RAD 226/228	1L Plastic	4	HNO3
Total Dissolved Solids	500 mL Plastic	2	None

Comments: No comments.

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 : 2/23/2024 4:30:53 PM +00:00

Project Number	30143623	**Well ID**	PZ-35			**Date**	2/23/2024
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	57.4 degrees F and Partly Cloudy. The wind is blowing NW at 9.2 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	38.91	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	10.67	**Total Depth (ft-bmp)**	50.01	**Water Column(ft)**	39.34	**Gallons in Well**	6.39
MP Elevation	743.81	**Pump Intake (ft-bmp)**	45	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	11:10	**Well Volumes Purged**	0.21	**Sample ID**	YAT-PZ-35	**Sampled by**	Kim Lapszynski
Purge Start	10:34	**Gallons Purged**	1.32	**Replicate/ Code No.**		**Color**	Clear
Purge End	11:09						

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)
10:34:00	00:00	125	10.67	6.42	334.51	1.50	8.10	17.30	177.01
10:39:00	05:00	125	10.78	5.36	336.46	1.80	4.92	17.50	189.96
10:44:00	10:00	150	10.81	5.28	312.55	2.44	4.29	17.70	194.14
10:49:00	15:00	150	10.82	5.26	325.11	3.22	4.17	17.80	200.50
10:54:00	20:00	150	10.83	5.26	353.05	3.21	4.13	17.80	204.60
10:59:00	25:00	150	10.83	5.26	368.41	2.46	4.09	17.80	207.18
11:04:00	30:00	150	10.83	5.25	378.39	2.42	4.07	17.80	213.56
11:09:00	35:00	150	10.84	5.24	386.25	2.92	4.07	17.80	216.26

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
App III/IV Metals, Ca, Na, K, Mg	250 mL Plastic	1	HNO3
Cl, F, SO4	250 mL Plastic	1	None
RAD 226/228	1L Plastic	1	HNO3
Total Dissolved Solids	500 mL Plastic	1	None

Comments: No comments.

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 : 2/23/2024 6:38:26 PM +00:00

Project Number	30143623	**Well ID**	YGWC-24SB			**Date**	2/23/2024
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	59.4 degrees F and Cloudy. The wind is blowing NW at 9.2 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	47.59	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	27.51	**Total Depth (ft-bmp)**	57.79	**Water Column(ft)**	30.28	**Gallons in Well**	4.92
MP Elevation	764.89	**Pump Intake (ft-bmp)**	52	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	13:08	**Well Volumes Purged**	0.48	**Sample ID**	YAT-YGWC-24SB	**Sampled by**	Kim Lapszynski
Purge Start	12:07	**Gallons Purged**	2.38	**Replicate/ Code No.**		**Color**	Clear
Purge End	13:07						

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)
12:07:00	00:00	150	27.51	6.70	83.63	1.69	9.17	16.50	180.14
12:12:00	05:00	150	27.94	5.59	76.81	56.60	7.77	17.90	179.91
12:17:00	10:00	150	27.95	5.61	76.27	42.80	7.80	18.10	174.99
12:22:00	15:00	150	27.95	5.61	76.70	23.20	7.77	18.10	176.18
12:27:00	20:00	150	27.96	5.57	76.77	14.50	7.75	18.10	176.21
12:32:00	25:00	150	27.96	5.61	76.72	11.40	7.73	18.20	174.05
12:37:00	30:00	150	27.96	5.62	76.79	9.03	7.74	18.30	173.04
12:42:00	35:00	150	27.96	5.61	76.71	8.33	7.73	18.40	174.10
12:47:00	40:00	150	27.96	5.63	76.74	7.20	7.76	18.30	171.93
12:52:00	45:00	150	27.96	5.60	76.78	7.12	7.78	18.20	174.76
12:57:00	50:00	150	27.96	5.61	76.63	4.66	7.79	18.30	176.40
13:02:00	55:00	150	27.97	5.61	76.60	4.48	7.80	18.30	176.62
13:07:00	00:00	150	27.97	5.62	76.71	4.03	7.80	18.40	176.78

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
App III/IV Metals, Ca, Na, K, Mg	250 mL Plastic	1	HNO3
Cl, F, SO4	250 mL Plastic	1	None
RAD 226/228	1L Plastic	2	HNO3
Total Dissolved Solids	500 mL Plastic	1	None

Comments: No comments.

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Groundwater Sampling Form

Updated : 2/26/2024 2:11:46 PM +00:00

Project Number	30143623	**Well ID**	YGWC-36A			**Date**	2/23/2024
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	62.2 degrees F and Mostly Cloudy. The wind is blowing W at 9.2 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	689.7	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	9.39	**Total Depth (ft-bmp)**	51.2	**Water Column(ft)**	41.81	**Gallons in Well**	6.79
MP Elevation	739.61	**Pump Intake (ft-bmp)**	46	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	14:24	**Well Volumes Purged**	0.18	**Sample ID**	YAT-YGWC-36A	**Sampled by**	Kim Lapszynski
Purge Start	13:28	**Gallons Purged**	1.19	**Replicate/ Code No.**		**Color**	Clear
Purge End	14:22						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity ()	Turbidity ()	Dissolved Oxygen ()	Temperature	Redox ()

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
App III/IV Metals, Ca, Na, K, Mg	250 mL Plastic	1	HNO3
Cl, F, SO4	250 mL Plastic	1	None
RAD 226/228	1L Plastic	2	HNO3
Total Dissolved Solids	500 mL Plastic	1	None

Comments: No comments.

Well Casing Volume Conversion

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

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Well Completion: _____ Key Number To Well: _____

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	PZ-24IB
Person Gauging:	Jessica Ware
Date:	2/19/2024
Time:	11:08:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWC-24SB
Person Gauging:	Jessica Ware
Date:	2/19/2024
Time:	11:09:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	PZ-52D
Person Gauging:	Jessica Ware
Date:	2/19/2024
Time:	11:39:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	PZ-53D
Person Gauging:	Jessica Ware
Date:	2/19/2024
Time:	11:41:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	PZ-37D
Person Gauging:	Jessica Ware
Date:	2/19/2024
Time:	11:42:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	PZ-37
Person Gauging:	Jessica Ware
Date:	2/19/2024
Time:	11:46:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWC-23S
Person Gauging:	Jessica Ware
Date:	2/19/2024
Time:	11:58:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	YAMW-5
Person Gauging:	Jessica Ware
Date:	2/19/2024
Time:	12:02:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	YGWC-38
Person Gauging:	Jessica Ware
Date:	2/19/2024
Time:	12:05:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	YAMW-2
Person Gauging:	Jessica Ware
Date:	2/19/2024
Time:	12:18:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	YAMW-4
Person Gauging:	Jessica Ware
Date:	2/19/2024
Time:	12:21:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	YGWC-41
Person Gauging:	Jessica Ware
Date:	2/19/2024
Time:	12:26:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	YAMW-3
Person Gauging:	Jessica Ware
Date:	2/19/2024
Time:	12:32:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	PZ-54D
Person Gauging:	Jessica Ware
Date:	2/19/2024
Time:	12:34:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☐	☐	☑
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☐	☑
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	PZ-56D
Person Gauging:	Jessica Ware
Date:	2/19/2024
Time:	12:38:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	YGWC-42
Person Gauging:	Jessica Ware
Date:	2/19/2024
Time:	12:41:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	PZ-55
Person Gauging:	Jessica Ware
Date:	2/19/2024
Time:	12:49:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☐	☐	☑
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☐	☑
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	YGWC-43
Person Gauging:	Jessica Ware
Date:	2/19/2024
Time:	12:53:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	PZ-51
Person Gauging:	Jessica Ware
Date:	2/19/2024
Time:	12:56:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	PZ-35
Person Gauging:	Jessica Ware
Date:	2/19/2024
Time:	13:07:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YAMW-1
Person Gauging:	Jessica Ware
Date:	2/19/2024
Time:	13:08:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	YGWC-36A
Person Gauging:	Jessica Ware
Date:	2/19/2024
Time:	13:10:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☑	☐	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	PZ-48
Person Gauging:	Jessica Ware
Date:	2/19/2024
Time:	13:16:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWC-49
Person Gauging:	Jessica Ware
Date:	2/19/2024
Time:	13:20:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	PZ-06D
Person Gauging:	Jessica Ware
Date:	2/19/2024
Time:	13:26:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-6S
Person Gauging:	Jessica Ware
Date:	2/19/2024
Time:	13:28:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-6I
Person Gauging:	Jessica Ware
Date:	2/19/2024
Time:	13:30:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	YGWC-50
Person Gauging:	Jake Swanson
Date:	2/19/2024
Time:	13:56:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	PZ-05S
Person Gauging:	Jessica Ware
Date:	2/19/2024
Time:	14:22:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	PZ-04S
Person Gauging:	Jessica Ware
Date:	2/19/2024
Time:	14:27:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Upgradient Wells

Groundwater Gauging Log

Client:	Georgia Power
Project Location:	AP-1
Date:	2/19/2024
Sampler:	Jake Swanson Jessica Ware
Equipment:	water probe

Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
YGWA-47	2/19/2024	09:16:00	36.25	59.19	--
GWA-2	2/19/2024	09:57:00	38.11	52.13	--
YGWA-18I	2/19/2024	11:19:00	24.78	79.97	--
YGWA-18S	2/19/2024	11:22:00	22.11	39.97	--
YGWA-17S	2/19/2024	11:27:00	12.21	39.85	--
YGWA-39	2/19/2024	11:51:00	21.03	68.59	--
YGWA-40	2/19/2024	12:12:00	24.99	48.23	--
YGWA-14S	2/19/2024	12:16:00	18.53	34.96	--
YGWA-30I	2/19/2024	13:29:00	45.23	59.48	--
YGWA-3D	2/19/2024	13:43:00	33.15	134.18	--
YGWA-3I	2/19/2024	13:45:00	52.41	59.05	--
YGWA-1I	2/19/2024	13:47:00	39.56	53.60	--
YGWA-1D	2/19/2024	13:52:00	51.10	128.85	--
YGWA-2I	2/19/2024	13:56:00	46.92	63.75	--
YGWA-20S	2/19/2024	14:04:00	11.25	29.52	--
YGWA-21I	2/19/2024	14:10:00	31.61	79.90	--
YGWA-5D	2/19/2024	14:19:00	20.07	129.13	--
YGWA-5I	2/19/2024	14:20:00	21.00	58.94	--
YGWA-4I	2/19/2024	14:26:00	25.20	48.81	--

Groundwater Sampling Form

Updated : 2/20/2024 3:46:54 PM +00:00

Project Number	30143607	**Well ID**	YGWA-47			**Date**	2/20/2024
Project Location	AP-1		**Weather(°F)**	It is Partly Cloudy. The wind is blowing undefined at 0.0 mph. 44 F			
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)	36.23	**Total Depth (ft-bmp)**	59.19	**Water Column(ft)**	22.96	**Gallons in Well**	3.73
MP Elevation	758.22	**Pump Intake (ft-bmp)**	54	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	10:30	**Well Volumes Purged**	0.32	**Sample ID**	YGWA-47	**Sampled by**	Jake Swanson
Purge Start	10:02	**Gallons Purged**	1.20	**Replicate/ Code No.**		**Color**	Clear
Purge End	10:25						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
10:02:00	00:00	200	36.23	5.66	175.18	0.65	3.74	16.80	193.93
10:05:00	02:47	200	37.06	5.63	172.62	0.65	2.91	17.00	199.52
10:10:00	07:47	200	37.23	5.61	174.48	0.22	2.40	16.90	202.31
10:15:00	12:47	200	37.26	5.61	184.07	0.20	2.27	17.00	205.61
10:20:00	17:47	200	37.28	5.61	184.23	0.24	2.19	17.10	207.49
10:25:00	22:47	200	37.27	5.62	184.00	0.02	2.14	17.20	209.74

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
Chloride	250 mL Plastic	1	None
Metals	250 mL Plastic	1	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 : 2/20/2024 4:42:30 PM +00:00

Project Number	30143623	**Well ID**	YGWA-4I			**Date**	2/20/2024
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	It is Mostly Cloudy. The wind is blowing N at 3.4 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)	25.18	**Total Depth (ft-bmp)**	48.81	**Water Column(ft)**	23.63	**Gallons in Well**	3.84
MP Elevation	784.21	**Pump Intake (ft-bmp)**	45	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	11:10	**Well Volumes Purged**	0.16	**Sample ID**	YAT-YGWA-4I	**Sampled by**	Kim Lapszynski
Purge Start	10:47	**Gallons Purged**	0.63	**Replicate/ Code No.**		**Color**	Clear
Purge End	11:08						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
10:47:00	00:00	150	25.18	7.12	126.56	1.43	9.25	12.50	156.51
10:52:00	05:00	125	25.79	6.27	134.90	0.33	3.65	14.10	151.13
10:57:00	10:00	100	25.98	6.23	136.41	0.52	2.17	14.70	147.22
11:02:00	15:00	100	26.08	6.21	136.58	0.35	2.13	14.80	145.79
11:07:00	20:00	100	26.17	6.21	135.74	0.14	2.02	14.90	141.24

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
App III/IV Metals, Ca, Na, K, Mg	250 mL Plastic	1	HNO3
Cl, F, SO4	250 mL Plastic	1	None
RAD 226/228	1L Plastic	2	HNO3
Total Dissolved Solids	500 mL Plastic	1	None

Comments: No comments

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 : 2/20/2024 5:39:30 PM +00:00

Project Number	30052922	**Well ID**	YGWA-1I			**Date**	2/20/2024
Project Location	AP-2		**Weather(°F)**	54.0 degrees F and Mostly Cloudy. The wind is blowing undefined at 0.0 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)	39.54	**Total Depth (ft-bmp)**	53.6	**Water Column(ft)**	14.06	**Gallons in Well**	2.28
MP Elevation	836.6	**Pump Intake (ft-bmp)**	49	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	12:02	**Well Volumes Purged**	1.22	**Sample ID**	YAT-YGWA-1I	**Sampled by**	Mark Chest
Purge Start	10:24	**Gallons Purged**	2.77	**Replicate/ Code No.**		**Color**	Clear
Purge End	11:59						

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)
10:24:00	00:00	200	39.54	6.96	61.29	0.61	10.34	13.30	203.36
10:29:00	05:00	200	44.05	6.23	48.83	0.38	2.10	16.00	79.79
10:34:00	10:00	200	44.75	6.15	47.95	0.45	4.42	16.10	96.60
10:39:00	15:00	200	45.23	6.14	61.70	0.63	1.28	16.20	62.10
10:44:00	20:00	200	45.78	6.08	55.38	0.93	1.34	16.10	89.36
10:49:00	25:00	200	46.25	6.11	57.33	0.23	0.44	16.10	93.81
10:54:00	30:00	100	46.95	6.26	63.76	0.02	0.26	16.00	38.79
10:59:00	35:00	100	47.88	6.46	78.04	0.10	0.23	15.90	-41.72
11:04:00	40:00	100	48.5	6.58	82.00	0.54	0.20	15.80	-86.39
11:09:00	45:00	100	48.5	6.62	78.95	1.30	0.70	15.80	-80.24
11:14:00	50:00	75	48.5	6.63	73.59	13.30	2.09	15.60	-52.91
11:19:00	55:00	75	48.5	6.62	66.93	15.50	3.40	15.70	-32.99
11:24:00	00:00	50	48.5	6.54	59.77	13.40	5.10	15.60	-8.11
11:29:00	05:00	50	48.5	6.45	55.06	10.20	6.12	15.60	8.94
11:34:00	10:00	50	48.5	6.46	51.21	7.88	6.85	15.60	18.49
11:39:00	15:00	50	48.5	6.51	49.19	5.03	7.32	15.70	24.61
11:44:00	20:00	50	48.5	6.49	48.08	4.87	7.63	15.70	33.23
11:49:00	25:00	50	48.5	6.46	47.38	2.75	7.85	15.80	39.43
11:54:00	30:00	50	48.5	6.44	46.89	2.91	8.03	15.70	46.06
11:59:00	35:00	50	48.5	6.42	46.60	2.54	8.16	15.80	51.25

Constituent Sampled	Container	Number	Preservative
ALK	250 mL Plastic	1	None
Cl, F, SO4	250 mL Plastic	1	None
Metals	250 mL Plastic	1	HNO3

Groundwater Sampling Form

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

Comments: Sampling Turbidity 1.35 NTU

Well Casing Volume Conversion

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

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Well Completion: _____ Key Number To Well: _____

Groundwater Sampling Form

Updated : 2/20/2024 5:44:37 PM +00:00

Project Number	30143608	**Well ID**	GWA-2			**Date**	2/20/2024
Project Location	Gypsum Landfill		**Weather(°F)**	It is Mostly Cloudy. The wind is blowing N at 3.4 mph. 48F			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	42.1	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	38.1	**Total Depth (ft-bmp)**	52.13	**Water Column(ft)**	14.03	**Gallons in Well**	2.28
MP Elevation	805.62	**Pump Intake (ft-bmp)**	47	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	11:50	**Well Volumes Purged**	0.48	**Sample ID**	GWA-2	**Sampled by**	Jake Swanson
Purge Start	11:19	**Gallons Purged**	1.09	**Replicate/ Code No.**		**Color**	Clear
Purge End	11:44						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
11:19:00	00:00	200	38.1	6.62	273.64	1.02	8.90	15.20	199.97
11:24:00	05:00	200	39.11	6.16	333.29	0.02	1.47	17.00	99.69
11:29:00	10:00	150	39.47	6.11	321.48	0.02	0.58	17.00	112.65
11:34:00	15:00	150	39.72	6.09	303.94	0.02	0.41	16.80	125.70
11:39:00	20:00	125	39.81	6.08	295.88	0.02	0.33	16.60	130.81
11:44:00	25:00	125	39.82	6.07	291.98	0.02	0.26	16.60	130.98

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
Chloride	250 mL Plastic	1	None
Metals	250 mL Plastic	1	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 : 2/20/2024 5:58:21 PM +00:00

Project Number	30143608	**Well ID**	YGWA-3D			**Date**	2/20/2024
Project Location	AP-2		**Weather(°F)**	55.8 degrees F and Cloudy. 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)	33.25	**Total Depth (ft-bmp)**	134.18	**Water Column(ft)**	100.93	**Gallons in Well**	16.40
MP Elevation	796.78	**Pump Intake (ft-bmp)**	113	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	11:35	**Well Volumes Purged**	0.05	**Sample ID**	YAT-YGWA-3D	**Sampled by**	David Prouty
Purge Start	11:00	**Gallons Purged**	0.79	**Replicate/ Code No.**		**Color**	Clear
Purge End	11:30						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
11:00:00	00:00	100	33.3	7.54	219.66	1.07	7.99	13.80	205.24
11:05:00	05:00	100	33.3	7.15	216.12	2.57	0.93	15.40	-65.65
11:10:00	10:00	100	33.3	7.56	216.72	3.44	0.32	15.40	-67.69
11:15:00	15:00	100	33.3	7.72	216.12	0.91	0.30	15.00	-74.60
11:20:00	20:00	100	33.3	7.79	216.36	2.20	0.25	14.90	-90.38
11:25:00	25:00	100	33.3	7.82	216.35	2.21	0.22	14.90	-105.05
11:30:00	30:00	100	33.3	7.81	216.38	2.99	0.21	15.00	-112.07

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

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

Updated : 2/20/2024 5:59:52 PM +00:00

Project Number	30143622	**Well ID**	YGWA-17S			**Date**	2/20/2024
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**				
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)	12.23	**Total Depth (ft-bmp)**	39.85	**Water Column(ft)**	27.62	**Gallons in Well**	4.49
MP Elevation	783.05	**Pump Intake (ft-bmp)**	35	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	10:37	**Well Volumes Purged**	0.24	**Sample ID**	YAT-YGWA-17S	**Sampled by**	Jessica Ware
Purge Start	10:13	**Gallons Purged**	1.06	**Replicate/ Code No.**		**Color**	Clear
Purge End	10:36						

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)
10:13:00	00:00	200	12.23	5.52	100.84	1.81	3.00	14.90	215.20
10:18:00	05:00	200	12.63	5.61	99.42	0.94	2.11	15.50	201.25
10:23:00	10:00	200	12.6	5.64	100.17	1.63	2.06	15.70	194.62
10:28:00	15:00	200	12.6	5.63	100.45	1.30	2.06	15.70	192.91
10:33:00	20:00	200	12.6	5.64	100.89	1.05	2.06	15.80	191.03

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
App III/IV Metals, Ca, Na, K, Mg	250 mL Plastic	1	HNO3
Cl, F, SO4	250 mL Plastic	1	None
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 : 2/20/2024 6:27:58 PM +00:00

Project Number	30143622	**Well ID**	YGWA-18I			**Date**	2/20/2024
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	55.0 degrees F and Cloudy. The wind is blowing undefined at 0.0 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)	24.78	**Total Depth (ft-bmp)**	79.97	**Water Column(ft)**	55.19	**Gallons in Well**	8.97
MP Elevation	790.57	**Pump Intake (ft-bmp)**	75	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	12:48	**Well Volumes Purged**		**Sample ID**	YAT-YGWA-18I	**Sampled by**	Jessica Ware
Purge Start	12:26	**Gallons Purged**		**Replicate/ Code No.**		**Color**	Clear
Purge End	12:47						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
12:26:00	00:00	200	24.78	6.66	106.99	1.62	8.62	13.80	205.90
12:31:00	05:00	200	24.99	6.10	111.77	1.85	3.93	15.60	200.09
12:36:00	10:00	200	25.01	6.10	112.38	1.16	3.93	15.70	195.32
12:41:00	15:00	200	25.04	6.10	112.58	1.69	3.86	15.80	192.79
12:46:00	20:00	200	25.03	6.11	113.27	1.43	3.84	15.90	189.98

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
App III/IV Metals, Ca, Na, K, Mg	250 mL Plastic	1	HNO3
Cl, F, SO4	250 mL Plastic	1	None
RAD Chem	250 mL 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 : 2/20/2024 6:52:38 PM +00:00

Project Number	30052922	**Well ID**	YGWA-1D			**Date**	2/20/2024
Project Location	AP-2		**Weather(°F)**	55.6 degrees F and Cloudy. The wind is blowing undefined at 0.0 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)	51.11	**Total Depth (ft-bmp)**	128.85	**Water Column(ft)**	77.74	**Gallons in Well**	12.63
MP Elevation	837.25	**Pump Intake (ft-bmp)**	108	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	13:24	**Well Volumes Purged**	0.19	**Sample ID**	YAT-YGWA-1D	**Sampled by**	Mark Chest
Purge Start	12:36	**Gallons Purged**	2.38	**Replicate/ Code No.**		**Color**	Clear
Purge End	13:21						

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)
12:36:00	00:00	200	51.11	6.92	118.93	0.44	9.78	13.90	44.01
12:41:00	05:00	200	51.15	6.97	109.20	0.99	2.38	15.70	-90.07
12:46:00	10:00	200	51.17	7.21	119.64	1.01	1.14	15.80	-115.18
12:51:00	15:00	200	51.21	7.15	115.60	0.52	0.87	15.80	-106.19
12:56:00	20:00	200	51.25	7.12	116.50	2.19	0.79	15.90	-98.20
13:01:00	25:00	200	51.27	7.10	112.07	2.00	0.76	15.90	-91.22
13:06:00	30:00	200	51.29	7.09	105.06	1.80	0.68	15.90	-82.45
13:11:00	35:00	200	51.27	7.07	103.82	1.97	0.74	15.90	-72.13
13:16:00	40:00	200	51.3	7.07	101.39	1.00	0.67	16.00	-65.36
13:21:00	45:00	200	51.32	7.06	106.59	1.42	0.72	16.00	-59.66

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

Comments: No comment

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 : 2/20/2024 6:59:30 PM +00:00

Project Number	30143623	**Well ID**	YGWA-5D			**Date**	2/20/2024
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	55.8 degrees F and Cloudy. The wind is blowing undefined at 0.0 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)	20.13	**Total Depth (ft-bmp)**	129.13	**Water Column(ft)**	109.00	**Gallons in Well**	17.71
MP Elevation	784.53	**Pump Intake (ft-bmp)**	124	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	13:25	**Well Volumes Purged**	0.07	**Sample ID**	YAT-YGWA-5D	**Sampled by**	Kim Lapszynski
Purge Start	13:00	**Gallons Purged**	1.25	**Replicate/ Code No.**		**Color**	Clear
Purge End	13:20						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
13:00:00	00:00	275	20.13	7.10	210.83	0.68	1.50	15.90	-145.07
13:05:00	05:00	275	21.04	7.61	225.10	0.13	0.07	16.30	-208.38
13:10:00	10:00	200	20.96	7.57	218.67	0.26	0.05	16.20	-216.49
13:15:00	15:00	200	20.96	7.57	216.78	0.19	0.03	16.30	-220.90
13:20:00	20:00	200	20.96	7.56	216.06	0.20	0.02	16.30	-222.06

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
App III/IV Metals, Ca, Na, K, Mg	250 mL Plastic	1	HNO3
Cl, F, SO4	250 mL Plastic	1	None
RAD 226/228	1L Plastic	2	HNO3
Total Dissolved Solids	500 mL Plastic	1	None

Comments: No comments.

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 : 2/20/2024 7:06:29 PM +00:00

Project Number	30143622	**Well ID**	YGWA-39			**Date**	2/20/2024
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	55.6 degrees F and Cloudy. The wind is blowing undefined at 0.0 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)	21.01	**Total Depth (ft-bmp)**	68.59	**Water Column(ft)**	47.58	**Gallons in Well**	7.73
MP Elevation	818.19	**Pump Intake (ft-bmp)**	63	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	13:58	**Well Volumes Purged**		**Sample ID**	YAT-YGWA-39	**Sampled by**	Jessica Ware
Purge Start	13:34	**Gallons Purged**		**Replicate/ Code No.**		**Color**	Clear
Purge End	13:57						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
13:34:00	00:00	250	21.01	7.06	359.89	2.39	9.02	16.00	162.15
13:39:00	05:00	250	21.41	6.00	371.93	1.84	0.24	17.90	57.08
13:44:00	10:00	250	21.46	5.99	373.95	0.84	0.12	17.90	48.95
13:49:00	15:00	250	21.42	5.98	374.40	1.09	0.09	17.90	52.10
13:54:00	20:00	250	21.47	5.97	372.43	0.84	0.09	17.90	54.05

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
App III/IV Metals, Ca, Na, K, Mg	250 mL Plastic	1	HNO3
Cl, F, SO4	250 mL Plastic	1	None
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 : 2/20/2024 7:42:15 PM +00:00

Project Number	30143608	**Well ID**	YGWA-3I			**Date**	2/20/2024
Project Location	AP-2		**Weather(°F)**	55.6 degrees F and Cloudy. The wind is blowing undefined at 0.0 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)	52.45	**Total Depth (ft-bmp)**	59.05	**Water Column(ft)**	6.60	**Gallons in Well**	1.07
MP Elevation	796.55	**Pump Intake (ft-bmp)**	54	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	13:50	**Well Volumes Purged**	0.86	**Sample ID**	YAT-YGWA-3I	**Sampled by**	David Prouty
Purge Start	13:12	**Gallons Purged**	0.92	**Replicate/ Code No.**		**Color**	Clear
Purge End	13:47						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
13:12:00	00:00	100	52.45	7.58	244.91	5.19	5.51	15.90	32.40
13:17:00	05:00	100	52.73	7.58	250.10	1.83	4.54	15.80	40.01
13:22:00	10:00	100	52.7	7.58	249.45	2.28	3.67	15.70	-9.65
13:27:00	15:00	100	52.69	7.57	244.67	2.89	2.68	15.70	-44.38
13:32:00	20:00	100	52.67	7.57	238.81	2.00	1.94	15.60	-61.43
13:37:00	25:00	100	52.66	7.58	231.24	0.81	1.37	15.50	-75.91
13:42:00	30:00	100	52.66	7.59	224.58	1.48	1.09	15.50	-84.60
13:47:00	35:00	100	52.66	7.59	220.31	1.65	1.01	15.40	-87.56

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

Comments: None

Well Casing Volume Conversion

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

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Well Completion: _____ Key Number To Well: _____

Groundwater Sampling Form

Updated : 2/20/2024 8:19:41 PM +00:00

Project Number	30143623	**Well ID**	YGWA-20S			**Date**	2/20/2024
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	57.2 degrees F and Mostly Cloudy. The wind is blowing S/SE at 3.4 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)	11.28	**Total Depth (ft-bmp)**	29.52	**Water Column(ft)**	18.24	**Gallons in Well**	2.96
MP Elevation	767.12	**Pump Intake (ft-bmp)**	24.5	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	14:40	**Well Volumes Purged**	0.29	**Sample ID**	YGWA-20S	**Sampled by**	Kim Lapszynski
Purge Start	14:18	**Gallons Purged**	0.86	**Replicate/ Code No.**		**Color**	Clear
Purge End	14:38						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
14:18:00	00:00	200	11.28	6.70	58.05	3.10	8.92	15.90	169.10
14:23:00	05:00	150	11.99	5.99	58.46	4.32	7.77	16.20	158.27
14:28:00	10:00	150	11.92	6.01	58.51	2.33	7.72	16.30	158.38
14:33:00	15:00	150	11.91	6.00	58.44	1.68	7.68	16.30	157.03
14:38:00	20:00	150	11.91	5.99	58.50	1.78	7.71	16.20	157.36

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
App III/IV Metals, Ca, Na, K, Mg	250 mL Plastic	1	HNO3
Cl, F, SO4	250 mL Plastic	1	None
RAD 226/228	1L Plastic	2	HNO3
Total Dissolved Solids	500 mL Plastic	1	None

Comments: No comments.

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 : 2/20/2024 10:01:22 PM +00:00

Project Number	30143608	**Well ID**	YGWA-30I			**Date**	2/20/2024
Project Location	AP-2		**Weather(°F)**	60.3 degrees F and Clear. The wind is blowing undefined at 0.0 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)	45.2	**Total Depth (ft-bmp)**	59.48	**Water Column(ft)**	14.28	**Gallons in Well**	2.32
MP Elevation	762.58	**Pump Intake (ft-bmp)**	54.5	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	16:25	**Well Volumes Purged**	0.23	**Sample ID**	YAT-YGWA-30I	**Sampled by**	David Prouty
Purge Start	16:00	**Gallons Purged**	0.53	**Replicate/ Code No.**		**Color**	Clear
Purge End	16:20						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
16:00:00	00:00	100	45.2	5.76	41.45	2.06	7.36	17.20	211.18
16:05:00	05:00	100	45.2	5.84	43.89	0.49	7.01	18.30	204.26
16:10:00	10:00	100	45.2	5.83	41.09	1.46	7.17	16.70	191.72
16:15:00	15:00	100	45.2	5.80	41.18	0.41	7.21	17.00	193.51
16:20:00	20:00	100	45.2	5.81	40.92	1.39	7.20	16.70	193.81

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

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

Updated : 2/20/2024 10:14:55 PM +00:00

Project Number	30143622	**Well ID**	YGWA-40			**Date**	2/20/2024
Project Location	AMA R6 CCR Landfill		**Weather(°F)**				
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)	25	**Total Depth (ft-bmp)**	48.23	**Water Column(ft)**	23.23	**Gallons in Well**	3.77
MP Elevation	815.73	**Pump Intake (ft-bmp)**	42	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	15:10	**Well Volumes Purged**		**Sample ID**	YAT-YGWA-40	**Sampled by**	Jessica Ware
Purge Start	14:41	**Gallons Purged**		**Replicate/ Code No.**		**Color**	Clear
Purge End	15:09						

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)
14:41:00	00:00	350	25	6.24	115.47	0.89	8.49	16.60	128.06
14:46:00	05:00	300	26	5.27	109.75	1.07	0.14	17.10	149.97
14:51:00	10:00	300	26.33	5.25	109.41	0.02	0.09	17.10	160.94
14:56:00	15:00	200	26.01	5.29	109.66	1.21	0.10	17.00	164.76
15:01:00	20:00	200	25.95	5.31	109.56	0.63	0.08	17.00	169.48
15:06:00	25:00	200	25.94	5.32	109.19	0.51	0.07	16.90	178.49

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
App III/IV, Ca, Na, K, Mg	250 mL Plastic	1	HNO3
Cl, F, SO4	250 mL Plastic	1	None
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 : 2/20/2024 10:27:58 PM +00:00

Project Number	30143623	**Well ID**	YGWA-21I			**Date**	2/20/2024
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	59.4 degrees F and Partly Cloudy. The wind is blowing N at 3.4 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)	31.62	**Total Depth (ft-bmp)**	79.9	**Water Column(ft)**	48.28	**Gallons in Well**	7.85
MP Elevation	783.7	**Pump Intake (ft-bmp)**	75	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	16:38	**Well Volumes Purged**	0.21	**Sample ID**	YGWA-21I	**Sampled by**	Kim Lapszynski
Purge Start	15:24	**Gallons Purged**	1.68	**Replicate/ Code No.**	YAT-UGRD-FB-2	**Color**	Clear
Purge End	16:36						

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)
15:24:00	00:00	150	31.62	7.47	143.12	1.22	9.51	19.20	149.92
15:29:00	05:00	150	32.89	6.52	153.18	1.29	1.94	17.20	-3.92
15:34:00	10:00	100	33.78	6.78	170.51	3.31	0.74	17.30	-55.12
15:39:00	15:00	100	34.42	6.78	171.38	2.80	0.62	17.40	-61.37
15:44:00	20:00	100	34.93	6.81	168.40	1.85	0.56	17.50	-60.99
15:49:00	25:00	100	35.3	6.79	163.66	1.27	0.64	17.40	-57.09
15:54:00	30:00	100	35.71	6.76	158.54	1.05	0.63	17.50	-49.74
15:59:00	35:00	100	36.05	6.75	154.65	1.09	0.69	17.40	-46.59
16:04:00	40:00	75	36.35	6.73	151.99	0.93	0.83	17.70	-42.68
16:09:00	45:00	75	36.75	6.72	151.34	1.15	0.67	17.30	-45.72
16:14:00	50:00	75	37.02	6.73	152.58	0.84	0.79	17.60	-44.31
16:19:00	55:00	50	37.16	6.75	151.55	0.91	1.12	17.70	-39.43
16:24:00	00:00	50	37.34	6.74	151.20	0.77	1.16	17.70	-38.92
16:29:00	05:00	50	37.48	6.77	153.11	1.08	1.23	17.70	-40.66
16:34:00	10:00	50	37.57	6.78	154.48	0.72	1.15	17.70	-42.41

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
App III/IV Metals, Ca, Na, K, Mg	250 mL Plastic	1	HNO3
Cl, F, SO4	250 mL Plastic	1	None
RAD 226/228	1L Plastic	2	HNO3
Total Dissolved Solids	500 mL Plastic	1	None

Comments: Decreased flow rate to 50 mL/min due to drawdown greater than 0.3 ft between 5 minute interval readings.

Well Casing Volume Conversion

Groundwater Sampling Form

Updated : 2/20/2024 10:34:41 PM +00:00

Project Number	30143623	**Well ID**	YGWA-5I			**Date**	2/20/2024
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	54.0 degrees F and Mostly Cloudy. 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)	21.02	**Total Depth (ft-bmp)**	58.94	**Water Column(ft)**	37.92	**Gallons in Well**	6.16
MP Elevation	784.54	**Pump Intake (ft-bmp)**	53	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	12:18	**Well Volumes Purged**	0.13	**Sample ID**	YAT-YGWA-5I	**Sampled by**	Kim Lapszynski
Purge Start	11:56	**Gallons Purged**	0.79	**Replicate/ Code No.**		**Color**	Clear
Purge End	12:16						

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)
11:56:00	00:00	150	21.02	7.07	101.15	1.70	9.71	13.30	126.40
12:01:00	05:00	150	21.19	5.82	86.15	0.64	6.15	15.60	101.56
12:06:00	10:00	150	21.2	5.79	86.35	0.36	6.00	15.60	106.38
12:11:00	15:00	150	21.2	5.78	86.21	0.29	5.99	15.60	113.77
12:16:00	20:00	150	21.2	5.78	86.13	0.11	6.00	15.60	115.68

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
App III/IV Metals, Ca, Na, K, Mg	250 mL Plastic	1	HNO3
Cl, F, SO4	250 mL Plastic	1	None
RAD 226/228	1L Plastic	2	HNO3
Total Dissolved Solids	500 mL Plastic	1	None

Comments: No comments.

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 : 2/20/2024 10:47:52 PM +00:00

Project Number	30052922	**Well ID**	YGWA-2I			**Date**	2/20/2024
Project Location	AP-2		**Weather(°F)**	57.6 degrees F and 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)	46.91	**Total Depth (ft-bmp)**	63.75	**Water Column(ft)**	16.84	**Gallons in Well**	2.74
MP Elevation	866.25	**Pump Intake (ft-bmp)**	60	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	16:02	**Well Volumes Purged**	0.46	**Sample ID**	YAT-YGWA-2I	**Sampled by**	Mark Chest
Purge Start	15:03	**Gallons Purged**	1.25	**Replicate/ Code No.**	YAT-UGRD-FB-1	**Color**	Clear
Purge End	15:58						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
15:03:00	00:00	100	46.91	7.40	208.85	3.38	9.06	16.50	77.13
15:08:00	05:00	100	48.28	7.13	220.70	8.24	2.92	17.30	-66.98
15:13:00	10:00	100	49.1	7.27	223.02	0.50	1.86	16.60	-79.57
15:18:00	15:00	100	49.35	7.29	224.22	0.02	0.81	16.60	-80.74
15:23:00	20:00	100	50.85	7.25	222.82	0.45	0.54	16.80	-72.26
15:28:00	25:00	75	50.89	7.24	219.86	0.40	0.77	16.60	-60.99
15:33:00	30:00	75	51.03	7.22	216.78	0.02	1.17	16.40	-47.79
15:38:00	35:00	75	51.11	7.21	214.70	0.03	1.48	16.40	-39.95
15:43:00	40:00	75	51.23	7.21	213.11	0.03	1.71	16.40	-36.42
15:48:00	45:00	75	51.29	7.22	212.04	0.02	1.84	16.50	-33.55
15:53:00	50:00	75	51.36	7.22	211.56	0.02	1.94	16.50	-33.73
15:58:00	55:00	75	51.43	7.23	211.08	0.02	2.02	16.60	-33.13

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

Comments: No comment

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 : 2/23/2024 3:50:13 PM +00:00

Project Number	30143608	**Well ID**	YGWA-18S			**Date**	2/23/2024
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	54.7 degrees F and Partly Cloudy. The wind is blowing NW at 8.1 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)	22	**Total Depth (ft-bmp)**	39.97	**Water Column(ft)**	17.97	**Gallons in Well**	2.92
MP Elevation	790.57	**Pump Intake (ft-bmp)**	35	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	09:25	**Well Volumes Purged**	0.27	**Sample ID**	YGWA-18S	**Sampled by**	David Prouty
Purge Start	08:49	**Gallons Purged**	0.79	**Replicate/ Code No.**	YAT-UGRD-FD-2	**Color**	Clear
Purge End	09:19						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
8:49:00	00:00	100	22.45	5.68	70.60	1.00	8.45	13.10	220.55
8:54:00	05:00	100	22.48	5.15	55.36	0.55	5.29	15.00	235.69
8:59:00	10:00	100	22.48	5.23	53.89	2.45	4.50	15.20	237.30
9:04:00	15:00	100	22.48	5.26	53.14	0.27	4.53	15.40	239.36
9:09:00	20:00	100	22.48	5.28	52.97	0.25	4.27	15.50	245.11
9:14:00	25:00	100	22.48	5.28	52.94	0.92	4.09	15.50	253.17
9:19:00	30:00	100	22.48	5.30	52.71	0.21	4.08	15.30	256.49

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	2	None
FlChlorideSulfate	250 mL Plastic	2	None
Metals	250 mL Plastic	2	HNO3
RAD Chem	1L Plastic	4	HNO3
TDS	500 mL Plastic	2	None

Comments: None

Well Casing Volume Conversion

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

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Well Completion: _____ Key Number To Well: _____

Groundwater Sampling Form

Updated : 2/23/2024 4:58:48 PM +00:00

Project Number	30143608	**Well ID**	YGWA-14S			**Date**	2/23/2024
Project Location	AP-2		**Weather(°F)**	58.8 degrees F and Mostly Cloudy. The wind is blowing NW at 5.8 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)	18.2	**Total Depth (ft-bmp)**	34.96	**Water Column(ft)**	16.76	**Gallons in Well**	2.72
MP Elevation	748.76	**Pump Intake (ft-bmp)**	30	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	11:00	**Well Volumes Purged**	0.19	**Sample ID**	YAT-YGWA-14S	**Sampled by**	David Prouty
Purge Start	10:34	**Gallons Purged**	0.53	**Replicate/ Code No.**	YAT-UGRD-FD-1	**Color**	Clear
Purge End	10:54						

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)
10:34:00	00:00	100	18.4	5.40	66.50	0.14	5.68	17.30	243.48
10:39:00	05:00	100	18.4	5.39	66.58	1.14	5.55	17.10	257.72
10:44:00	10:00	100	18.4	5.39	66.52	0.36	5.51	17.10	264.49
10:49:00	15:00	100	18.4	5.38	66.54	0.17	5.48	17.10	269.37
10:54:00	20:00	100	18.4	5.39	66.73	0.19	5.39	17.20	270.73

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	2	None
FlChlorideSulfate	250 mL Plastic	2	None
Metals	250 mL Plastic	2	HNO3
RAD Chem	1L Plastic	4	HNO3
TDS	500 mL Plastic	2	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-1
Permit Number:	
Well ID:	YGWA-47
Person Gauging:	Jake Swanson
Date:	2/19/2024
Time:	09:16:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	Gypsum Landfill
Permit Number:	
Well ID:	GWA-2
Person Gauging:	Jake Swanson
Date:	2/19/2024
Time:	09:57:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☐	☑	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
	ants in well				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-18I
Person Gauging:	Jessica Ware
Date:	2/19/2024
Time:	11:19:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-18S
Person Gauging:	Jessica Ware
Date:	2/19/2024
Time:	11:22:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☐	☑	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-17S
Person Gauging:	Jessica Ware
Date:	2/19/2024
Time:	11:27:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	YGWA-39
Person Gauging:	Jessica Ware
Date:	2/19/2024
Time:	11:51:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	YGWA-40
Person Gauging:	Jessica Ware
Date:	2/19/2024
Time:	12:12:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-14S
Person Gauging:	Jake Swanson
Date:	2/19/2024
Time:	12:16:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-30I
Person Gauging:	Jake Swanson
Date:	2/19/2024
Time:	13:29:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-3D
Person Gauging:	Jessica Ware
Date:	2/19/2024
Time:	13:43:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-3I
Person Gauging:	Jessica Ware
Date:	2/19/2024
Time:	13:45:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-1I
Person Gauging:	Jake Swanson
Date:	2/19/2024
Time:	13:47:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-1D
Person Gauging:	Jake Swanson
Date:	2/19/2024
Time:	13:52:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-2I
Person Gauging:	Jake Swanson
Date:	2/19/2024
Time:	13:56:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-20S
Person Gauging:	Jessica Ware
Date:	2/19/2024
Time:	14:04:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-21I
Person Gauging:	Jessica Ware
Date:	2/19/2024
Time:	14:10:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☐	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-5D
Person Gauging:	Jessica Ware
Date:	2/19/2024
Time:	14:19:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-5I
Person Gauging:	Jessica Ware
Date:	2/19/2024
Time:	14:20:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-4I
Person Gauging:	Jessica Ware
Date:	2/19/2024
Time:	14:26:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

YGWC-50 (December 2023 & June 2024)
PZ-54D (June 2024)

Groundwater Sampling Form

Updated : 12/22/2023 10:10:55 AM -05:00

Project Number	30143623	**Well ID**	YGWC-50			**Date**	12/20/2023
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	41.4 degrees F and Clear. The wind is blowing SE at 5.8 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	27.98	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	14.83	**Total Depth (ft-bmp)**	39.28	**Water Column(ft)**	24.45	**Gallons in Well**	3.97
MP Elevation	729.78	**Pump Intake (ft-bmp)**	36.5	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	13:39	**Well Volumes Purged**	0.91	**Sample ID**	YAT-YGWC-50	**Sampled by**	Auguste Parrinello
Purge Start	12:18	**Gallons Purged**	3.60	**Replicate/ Code No.**	YAT-AMA-R6-FD-1	**Color**	Clear
Purge End	14:17						

Time	Total Elapsed Minutes	Rate (gal/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
12:18:00	00:00	0.4	14.81	4.87	1908.18		0.49	17.6	154.77
12:18:00	00:21	0.4	15.6	4.88	1899.21	41.20	0.50	17.0	151.47
12:23:00	05:21	0.4	15.7	4.78	1895.89	56.60	0.07	17.8	151.16
12:28:00	10:21	0.4	15.7	4.69	1879.52	26.60	0.05	17.9	178.90
12:33:00	15:21	0.4	15.7	4.67	1888.44	12.50	0.03	17.9	195.85
12:38:00	20:21	0.4	15.7	4.64	1887.12	11.10	0.03	18.0	208.38
12:43:00	25:21	0.4	15.7	4.65	1875.14	8.20	0.03	17.9	211.96
12:48:00	30:21	0.4	15.7	4.65	1865.17	5.15	0.02	18.0	216.95
12:53:00	35:21	0.4	15.7	4.64	1858.14	5.23	0.02	18.0	221.76
12:58:00	40:21	0.4	15.7	4.63	1867.28	5.81	0.02	17.8	223.05
13:03:00	45:21	0.4	15.7	4.63	1866.01	5.62	0.03	17.7	228.13
13:08:00	50:21	0.4	15.7	4.64	1852.40	3.33	0.02	17.9	227.35
13:13:00	55:21	0.4	15.7	4.64	1860.79	2.41	0.02	17.8	227.07
13:18:00	00:21	0.4	15.7	4.65	1875.42	2.16	0.02	17.8	225.90
13:23:00	05:21	0.4	15.7	4.65	1891.27	2.12	0.02	17.8	226.93
13:28:00	10:21	0.4	15.7	4.62	1867.90	3.13	0.02	17.7	233.34
13:33:00	15:21	0.4	15.7	4.63	1877.86	3.80	0.02	17.8	232.19

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

Comments: NA

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date:12/20/2023

Calibrated By: Augie Parrinello

Field Conditions: Sunny, Cold

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	1034825
Turbidity Meter	Hach2100Q	--

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	3G01148	Apr-24	Insitu
pH (SU)	4.00	3GD708	Apr-25	Insitu
pH (SU)	7.00	3GE0720	May-25	Insitu
pH (SU)	10.00	3GD1219	Apr-25	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	3GF0202	Mar-24	Insitu

Calibration					
Time Start: 9:00			**Time Finish: 9:25**		
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	4.21	± 0.1	GWMP
pH (SU)	7.00	7.06	6.52	± 0.1	GWMP
pH (SU)	10.00	10.14	10.14	± 0.1	GWMP
D.O. (%)	N/A	100.00	11.29	± 10%	NA
ORP (mV)	229.0	229	11.29	± 10	EPA 2024

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.1	± 10% of standard	EPA 2023
	100	101		
	800	799		
	<0.10	0.01		

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	NA	NA	± 10% of standard	EPA 2023
pH (SU)	4.00	NA	NA	± 0.1	GWMP
pH (SU)	7.00	NA	NA	± 0.1	GWMP
pH (SU)	10.00	NA	NA	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	19.7	± 10% of standard	EPA 2023
	100	101		
	800	800		
	<0.10	0.02		

Notes:

Groundwater Sampling Form

ARCADIS

Project Number	30143622	**Well ID**	YGWC-50			**Date**	06/10/2024
Project Name/Location	Yates 2022-2027 LF-R6 GW Consulting Services		**Weather(°F)**	72.0 degrees F and Mostly Cloudy. The wind is blowing N at 5.8 mph.			
Measuring Pt. Description	Top of Inner Casing	**MP Elevation**		**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	5.62	**Total Depth (ft-bmp)**	39	**Water Column (ft)**	33.38	**Gallons in Well**	5.42
Purge Start	11:55	**Pump Intake (ft-bmp)**	36	**Purge Method**	Low-Flow	**Purge Equipment**	Peristaltic
Purge End	14:04	**Volumes Purged**	0.79	**Sample ID**	YAT-YGWC-50	**Sampled by**	Jessica Ware
Sample Time	14:05	**mL Purged**	16250	**Replicate/ Code No.**	YAT-AMA-FD-1	**Sample Type**	Grab

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	mL Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
12:10	0	0	125	5.82	1875	4.9	1.88	33.2	0.27	21.3	158.6	Cloudy	None
12:15	5	5	125	5.84	2500	4.92	1.877	18.2	0.24	21	165.7	Clear	None
12:20	5	10	125	5.84	3125	4.9	1.885	13.5	0.21	20.8	174.4	Clear	None
12:25	5	15	125	5.85	3750	4.88	1.885	9.4	0.18	20.9	184.3	Clear	None
12:30	5	20	125	5.85	4375	4.87	1.883	10.5	0.18	21.1	204.7	Clear	None
12:35	5	25	125	5.85	5000	4.87	1.881	8.68	0.16	20.9	219.9	Clear	None
12:40	5	30	125	5.85	5625	4.87	1.884	8.46	0.16	21.1	219.6	Clear	None
12:45	5	35	125	5.85	6250	4.88	1.879	8.28	0.15	20.7	217.1	Clear	None
12:50	5	40	125	5.85	6875	4.87	1.88	7.97	0.14	21.2	226.1	Clear	None
12:55	5	45	125	5.85	7500	4.87	1.883	7.11	0.14	21	231.8	Clear	None
13:00	5	50	125	5.85	8125	4.87	1.885	7.33	0.14	21.1	22.85	Clear	None
13:05	5	55	125	5.85	8750	4.87	1.886	7.99	0.13	21.3	231.9	Clear	None
13:10	5	60	125	5.85	9375	4.89	1.885	7.27	0.13	21.6	227.2	Clear	None
13:15	5	65	125	5.85	10000	4.87	1.884	7.27	0.13	21.6	223.1	Clear	None
13:20	5	70	125	5.85	10625	4.87	1.885	7.04	0.13	21.6	226.8	Clear	None
13:25	5	75	125	5.85	11250	4.86	1.888	6.54	0.12	21.3	244.5	Clear	None
13:30	5	80	125	5.85	11875	4.85	1.888	5.33	0.12	21.4	264.4	Clear	None
13:35	5	85	125	5.85	12500	4.86	1.887	4.98	0.11	21.1	245.7	Clear	None
13:40	5	90	125	5.85	13125	4.86	1.884	4.8	0.11	20.9	258.1	Clear	None
13:45	5	95	125	5.85	13750	4.87	1.883	5.67	0.1	20.8	251.9	Clear	None
13:50	5	100	125	5.85	14375	4.87	1.888	4.97	0.1	21.6	257.6	Clear	None
13:55	5	105	125	5.85	15000	4.87	1.885	4.94	0.1	21.6	254.1	Clear	None
14:00	5	110	125	5.85	15625	4.86	1.886	4.63	0.1	21.9	265	Clear	None

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Total Dissolved Solids	500 mL Plastic	1	None
App III metals	250 mL Plastic	1	HNO3
Anions	250 mL Plastic	1	None

Comments: FB-1 and EB-1 collected

ft-bmp = feet below measuring point
mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
mV = milliv

Groundwater Sampling Form

ARCADIS

Project Number	30143622	**Well ID**	PZ-54D			**Purge Start Date**	06/10/2024
Project Name/Location	Yates 2022-2027 LF-R6 GW Consulting Services	**Weather(°F)**	70.9 degrees F and Clear. The wind is blowing N at 4.7 mph.			**Sample Date**	6/12/2024
Measuring Pt. Description	Top of Inner Casing	**MP Elevation**		**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	124.5	**Total Depth (ft-bmp)**	137.06	**Water Column (ft)**	12.56	**Gallons in Well**	2.04
Purge Start	10:55	**Pump Intake (ft-bmp)**	136	**Purge Method**	Low-Flow	**Purge Equipment**	Submersible
Purge End	11:12 (6/10/24)	**Volumes Purged**	1.96	**Sample ID**	YAT-PZ-54D	**Sampled by**	Jessica Ware
Sample Time	08:18 (6/12/24)	**Gallons Purged**	4	**Replicate/ Code No.**	NA	**Sample Type**	Grab

Time	Date	Total Elapsed Minutes	Rate gal/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
10:56	6/10/2024	1	0.15	128.41	0.15	7.2	0.658	<1000	3.85	18.9	119.3	Grayish Brown	None
11:01	6/10/2024	5	0.15	129.97	0.9	7.13	0.607	<1000	4.94	19.5	121.1	Grayish Brown	None
11:06	6/10/2024	10	0.25	129.97	2.15	7.14	0.565	628	5.53	20.1	118	Grayish Brown	None
16:27	6/10/2024	1	1.25	132.9	1.7	7.16	0.597	<1000	6.58	20.2	85.3	Grayish Brown	None
08:24	6/12/2024	--	0	133.68	--	7.02	740	<1000	4.49	18.5	139.7	Grayish Brown	None

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	1	HNO3
Total Dissolved Solids	500 mL Plastic	1	None
App III metals	250 mL Plastic	1	HNO3
App III metals	250 mL Plastic (Field filtered)	1	HNO3
Anions	250 mL Plastic	1	None

Comments: Pump struggling, pump off at 11:12. Deployed clean development pump, turned on at 16:25. Purged 1.75gal. Pump off at 16:30. Sampled on 6/12/2024 at 0818

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: Good
Well Completion: Stick-up
Well Locked at Arrival: yes
Well Locked at Departure: yes
Key Number To Well: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute
mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
mV = milliv

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: June 10, 2024

Calibrated By: Jessica Ware

Field Conditions:Sunny

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	YSI DSS	211362
Turbidity Meter	Hach	216549

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413		May-25	
pH (SU)	4.00		May-25	
pH (SU)	7.00		May-25	
pH (SU)	10.00		May-25	
D.O. (%)	N/A		--	
ORP (mV)	229.0		May-25	

Calibration					
Time Start:		**Time Finish:**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413		± 10% of standard	EPA 2023
pH (SU)	4.00	4.00		± 0.1	GWMP
pH (SU)	7.00	7.00		± 0.1	GWMP
pH (SU)	10.00	10.01		± 0.1	GWMP
D.O. (%)	N/A	99.80		± 10%	NA
ORP (mV)	240.0	240.1		± 10	EPA 2024

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	9.96	± 10% of standard	EPA 2023
	100	19.8		
	800	100		
	<0.10	801		

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

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

Notes:

June 2024
YGWC-50 and PZ-54D

Groundwater Sampling Form

ARCADIS

Project Number	30143622	**Well ID**	YGWC-50			**Date**	06/10/2024
Project Name/Location	Yates 2022-2027 LF-R6 GW Consulting Services		**Weather(°F)**	72.0 degrees F and Mostly Cloudy. The wind is blowing N at 5.8 mph.			
Measuring Pt. Description	Top of Inner Casing	**MP Elevation**		**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	5.62	**Total Depth (ft-bmp)**	39	**Water Column (ft)**	33.38	**Gallons in Well**	5.42
Purge Start	11:55	**Pump Intake (ft-bmp)**	36	**Purge Method**	Low-Flow	**Purge Equipment**	Peristaltic
Purge End	14:04	**Volumes Purged**	0.79	**Sample ID**	YAT-YGWC-50	**Sampled by**	Jessica Ware
Sample Time	14:05	**mL Purged**	16250	**Replicate/ Code No.**	YAT-AMA-FD-1	**Sample Type**	Grab

Time	Minutes Elapsed	Total Elapsed Minutes	Rate mL/min	Depth to Water (ft)	mL Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
12:10	0	0	125	5.82	1875	4.9	1.88	33.2	0.27	21.3	158.6	Cloudy	None
12:15	5	5	125	5.84	2500	4.92	1.877	18.2	0.24	21	165.7	Clear	None
12:20	5	10	125	5.84	3125	4.9	1.885	13.5	0.21	20.8	174.4	Clear	None
12:25	5	15	125	5.85	3750	4.88	1.885	9.4	0.18	20.9	184.3	Clear	None
12:30	5	20	125	5.85	4375	4.87	1.883	10.5	0.18	21.1	204.7	Clear	None
12:35	5	25	125	5.85	5000	4.87	1.881	8.68	0.16	20.9	219.9	Clear	None
12:40	5	30	125	5.85	5625	4.87	1.884	8.46	0.16	21.1	219.6	Clear	None
12:45	5	35	125	5.85	6250	4.88	1.879	8.28	0.15	20.7	217.1	Clear	None
12:50	5	40	125	5.85	6875	4.87	1.88	7.97	0.14	21.2	226.1	Clear	None
12:55	5	45	125	5.85	7500	4.87	1.883	7.11	0.14	21	231.8	Clear	None
13:00	5	50	125	5.85	8125	4.87	1.885	7.33	0.14	21.1	22.85	Clear	None
13:05	5	55	125	5.85	8750	4.87	1.886	7.99	0.13	21.3	231.9	Clear	None
13:10	5	60	125	5.85	9375	4.89	1.885	7.27	0.13	21.6	227.2	Clear	None
13:15	5	65	125	5.85	10000	4.87	1.884	7.27	0.13	21.6	223.1	Clear	None
13:20	5	70	125	5.85	10625	4.87	1.885	7.04	0.13	21.6	226.8	Clear	None
13:25	5	75	125	5.85	11250	4.86	1.888	6.54	0.12	21.3	244.5	Clear	None
13:30	5	80	125	5.85	11875	4.85	1.888	5.33	0.12	21.4	264.4	Clear	None
13:35	5	85	125	5.85	12500	4.86	1.887	4.98	0.11	21.1	245.7	Clear	None
13:40	5	90	125	5.85	13125	4.86	1.884	4.8	0.11	20.9	258.1	Clear	None
13:45	5	95	125	5.85	13750	4.87	1.883	5.67	0.1	20.8	251.9	Clear	None
13:50	5	100	125	5.85	14375	4.87	1.888	4.97	0.1	21.6	257.6	Clear	None
13:55	5	105	125	5.85	15000	4.87	1.885	4.94	0.1	21.6	254.1	Clear	None
14:00	5	110	125	5.85	15625	4.86	1.886	4.63	0.1	21.9	265	Clear	None

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Total Dissolved Solids	500 mL Plastic	1	None
App III metals	250 mL Plastic	1	HNO3
Anions	250 mL Plastic	1	None

Comments: FB-1 and EB-1 collected

ft-bmp = feet below measuring point
mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
mV = milliv

Groundwater Sampling Form

ARCADIS

Project Number	30143622	**Well ID**	PZ-54D			**Purge Start Date**	06/10/2024
Project Name/Location	Yates 2022-2027 LF-R6 GW Consulting Services	**Weather(°F)**	70.9 degrees F and Clear. The wind is blowing N at 4.7 mph.			**Sample Date**	6/12/2024
Measuring Pt. Description	Top of Inner Casing	**MP Elevation**		**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	124.5	**Total Depth (ft-bmp)**	137.06	**Water Column (ft)**	12.56	**Gallons in Well**	2.04
Purge Start	10:55	**Pump Intake (ft-bmp)**	136	**Purge Method**	Low-Flow	**Purge Equipment**	Submersible
Purge End	11:12 (6/10/24)	**Volumes Purged**	1.96	**Sample ID**	YAT-PZ-54D	**Sampled by**	Jessica Ware
Sample Time	08:18 (6/12/24)	**Gallons Purged**	4	**Replicate/ Code No.**	NA	**Sample Type**	Grab

Time	Date	Total Elapsed Minutes	Rate gal/min	Depth to Water (ft)	Gallons Purged	pH (standard units)	Conductivity (mS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)	Appearance	
												Color	Odor
10:56	6/10/2024	1	0.15	128.41	0.15	7.2	0.658	<1000	3.85	18.9	119.3	Grayish Brown	None
11:01	6/10/2024	5	0.15	129.97	0.9	7.13	0.607	<1000	4.94	19.5	121.1	Grayish Brown	None
11:06	6/10/2024	10	0.25	129.97	2.15	7.14	0.565	628	5.53	20.1	118	Grayish Brown	None
16:27	6/10/2024	1	1.25	132.9	1.7	7.16	0.597	<1000	6.58	20.2	85.3	Grayish Brown	None
08:24	6/12/2024	--	0	133.68	--	7.02	0.740	<1000	4.49	18.5	139.7	Grayish Brown	None

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	1	HNO3
Total Dissolved Solids	500 mL Plastic	1	None
App III metals	250 mL Plastic	1	HNO3
App III metals	250 mL Plastic (Field filtered)	1	HNO3
Anions	250 mL Plastic	1	None

Comments: Pump struggling, pump off at 11:12. Deployed clean development pump, turned on at 16:25. Purged 1.75gal. Pump off at 16:30. Sampled on 6/12/2024 at 0818

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: Good
Well Completion: Stick-up
Well Locked at Arrival: yes
Well Locked at Departure: yes
Key Number To Well: NA

ft-bmp = feet below measuring point
in = inches
ft = feet
mL/min = milliliters per minute
mS/cm = milliSiemens per centimeter
NTU = Nephelometric Turbidity Unit
mg/L = milligrams per liter
mV = milliv

ARCADIS Design & Consultancy for natural and built assets

Instrument Calibration

Project Name: Yates

Project Number:

Date/s: 6/10/24 - W

Calibrating Personnel: J Wan
G Wilford

Date / Time : 6/10/24 0720 Instrument/s: YSI DSS
Weather : Cloudy 69°F HACH

CALIBRANT	Pre-Calibration	Value Entered	Post-Calibration
pH 7.0	7.02	7.0	7.00
pH 4.0	4.00	4.0	4.00
pH 10.0	9.92	10.0	10.01
Sp. Conductivity (ms/cm)	1.501	1.413	1.414
ORP (mV)	238.1	240	240.0
Dissolved Oxygen (%)	96.1	100%	99.9
Turbidity (NTU)	984	10	9.89
		17.6	19.8
		20	
		100	100
		780 800	804

Notes: YSI DSS SN: 21136021
HACH SN: 21654901

Barometric Pressure = ——— mm Hg

Date / Time : _____ Instrument/s: _____
Weather : _____

CALIBRANT	Pre-Calibration	Value Entered	Post-Calibration
pH 7.0		7.0	
pH 4.0		4.0	
pH 10.0		10.0	
Sp. Conductivity (ms/cm)		1.413	
ORP (mV)		240	
Dissolved Oxygen (%)		100%	
Turbidity (NTU)			

Notes:

Barometric Pressure = _____ mm Hg

Date / Time : _____ Instrument/s : _____
Weather : _____

CALIBRANT	Pre-Calibration	Value Entered	Post-Calibration
pH 7.0		7.0	
pH 4.0		4.0	
pH 10.0		10.0	
Sp. Conductivity (ms/cm)		1.413	
ORP (mV)		240	
Dissolved Oxygen (%)		100%	
Turbidity (NTU)			

Notes:

Barometric Pressure = _____ mm Hg

Date / Time : _____ Instrument/s : _____
Weather : _____

CALIBRANT	Pre-Calibration	Value Entered	Post-Calibration
pH 7.0		7.0	
pH 4.0		4.0	
pH 10.0		10.0	
Sp. Conductivity (ms/cm)		1.413	
ORP (mV)		240	
Dissolved Oxygen (%)		100%	
Turbidity (NTU)			

Notes:

Barometric Pressure = _____ mm Hg

August 2024

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 8/20/2024

Calibrated By: Kim Lapszynski

Field Conditions: Clear

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	1034834
Turbidity Meter	HACH 2100Q	24030D000311

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 10:35		**Time Finish 11:05**			
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	4.01	31.96	± 0.1	GWMP
pH (SU)	7.00	6.99	31.77	± 0.1	GWMP
pH (SU)	10.00	9.95	32.31	± 0.1	GWMP
D.O. (%)	N/A	100.00	34.35	± 10%	NA
ORP (mV)	229.0	229.0	33.01	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	9.99	± 10% of standard	EPA 2023
	20	20.0		
	100	101		
	800	807		

Calibration Check					
Time Start 15:00		**Time Finish 15:45**			
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	26.00	± 0.1	GWMP
pH (SU)	7.00	7.00	25.46	± 0.1	GWMP
pH (SU)	10.00	10.00	26.31	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	10.2	± 10% of standard	EPA 2023
	20	19.9		
	100	103		
	800	789		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 8/21/2024

Calibrated By: Kim Lapszynski

Field Conditions: Clear

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	1034834
Turbidity Meter	HACH 2100Q	24030D000311

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 7:25		**Time Finish 7:50**			
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	21.43	± 0.1	GWMP
pH (SU)	7.00	7.02	21.98	± 0.1	GWMP
pH (SU)	10.00	10.00	21.38	± 0.1	GWMP
D.O. (%)	N/A	100.00	20.12	± 10%	NA
ORP (mV)	229.0	229.0	20.33	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	10.0	± 10% of standard	EPA 2023
	20	20.1		
	100	96.2		
	800	797		

Calibration Check					
Time Start 15:30		**Time Finish 15:55**			
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	25.15	± 0.1	GWMP
pH (SU)	7.00	7.00	25.48	± 0.1	GWMP
pH (SU)	10.00	10.00	27.11	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	10.1	± 10% of standard	EPA 2023
	20	19.6		
	100	94.9		
	800	786		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 8/22/2024

Calibrated By: Kim Lapszynski

Field Conditions: Cloudy

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	1034834
Turbidity Meter	HACH 2100Q	24030D000311

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 7:00		**Time Finish 7:35**			
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	24.54	± 0.1	GWMP
pH (SU)	7.00	7.00	24.70	± 0.1	GWMP
pH (SU)	10.00	10.00	24.17	± 0.1	GWMP
D.O. (%)	N/A	100.00	29.40	± 10%	NA
ORP (mV)	229.0	229.0	27.99	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	10	± 10% of standard	EPA 2023
	20	20.1		
	100	99.5		
	800	794		

Calibration Check					
Time Start 12:28		**Time Finish 13:00**			
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	24.54	± 0.1	GWMP
pH (SU)	7.00	7.00	24.70	± 0.1	GWMP
pH (SU)	10.00	10.00	24.17	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	10.8	± 10% of standard	EPA 2023
	20	20.2		
	100	101		
	800	793		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 8/23/2024

Calibrated By: Kim Lapszynski

Field Conditions: Clear

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	1034834
Turbidity Meter	HACH 2100Q	24030D000311

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 7:45**

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	1,413	1413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	22.08	± 0.1	GWMP
pH (SU)	7.00	7.00	21.92	± 0.1	GWMP
pH (SU)	10.00	10.00	21.51	± 0.1	GWMP
D.O. (%)	N/A	100.00	17.97	± 10%	NA
ORP (mV)	229.0	229.0	20.31	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	10.0	± 10% of standard	EPA 2023
	20	20.1		
	100	99.1		
	800	795		

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: 8/20/2024

Calibrated By: Perry Studebaker

Field Conditions: Clear

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	963008
Turbidity Meter	HACH 2100Q	211100000427

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 7:46**

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	22.18	± 0.1	GWMP
pH (SU)	7.00	7.02	21.90	± 0.1	GWMP
pH (SU)	10.00	10.05	21.98	± 0.1	GWMP
D.O. (%)	N/A	100.00	22.21	± 10%	NA
ORP (mV)	229.0	232.9	22.13	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	10.2	± 10% of standard	EPA 2023
	20	20.0		
	100	99.7		
	800	800		

Calibration Check

Time Start 12:30 **Time Finish 12:55**

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	24.84	± 0.1	GWMP
pH (SU)	7.00	7.00	24.66	± 0.1	GWMP
pH (SU)	10.00	10.00	24.64	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	10.0	± 10% of standard	EPA 2023
	20	20.0		
	100	100		
	800	802		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 8/21/2024

Calibrated By: Perry Studebaker

Field Conditions: Clear

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	963008
Turbidity Meter	HACH 2100Q	211100000427

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 7:00		**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	20.77	± 0.1	GWMP
pH (SU)	7.00	7.02	20.91	± 0.1	GWMP
pH (SU)	10.00	10.03	20.82	± 0.1	GWMP
D.O. (%)	N/A	100.00	20.87	± 10%	NA
ORP (mV)	229.0	234.5	20.88	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	9.84	± 10% of standard	EPA 2023
	20	20.2		
	100	100		
	800	800		

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	4.01	29.15	± 0.1	GWMP
pH (SU)	7.00	6.99	28.43	± 0.1	GWMP
pH (SU)	10.00	9.95	29.40	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	10.1	± 10% of standard	EPA 2023
	20	19.7		
	100	101		
	800	796		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 8/22/2024

Calibrated By: Perry Studebaker

Field Conditions: Cloudy

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	963008
Turbidity Meter	HACH 2100Q	211100000427

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 8:05**

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	23.24	± 0.1	GWMP
pH (SU)	7.00	7.00	23.21	± 0.1	GWMP
pH (SU)	10.00	10.00	23.15	± 0.1	GWMP
D.O. (%)	N/A	100.00	24.51	± 10%	NA
ORP (mV)	229.0	231.2	23.39	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	10.1	± 10% of standard	EPA 2023
	20	20.1		
	100	99.1		
	800	806		

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: 8/23/2024

Calibrated By: Perry Studebaker

Field Conditions: Clear

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	963008
Turbidity Meter	HACH 2100Q	211100000427

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 7:36**			
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	20.04	± 0.1	GWMP
pH (SU)	7.00	7.02	20.07	± 0.1	GWMP
pH (SU)	10.00	10.05	19.85	± 0.1	GWMP
D.O. (%)	N/A	100.00	20.60	± 10%	NA
ORP (mV)	229.0	229.0	20.04	± 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	797		

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: 8/20/2024

Calibrated By: David Prouty

Field Conditions: Clear

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	513478
Turbidity Meter	HACH 2100Q	24030D000276

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 7:20 **Time Finish 7:45**

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	22.41	± 0.1	GWMP
pH (SU)	7.00	7.02	21.68	± 0.1	GWMP
pH (SU)	10.00	10.05	21.92	± 0.1	GWMP
D.O. (%)	N/A	100.00	21.55	± 10%	NA
ORP (mV)	229.0	233.9	21.34	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	9.98	± 10% of standard	EPA 2023
	20	19.9		
	100	101		
	800	800		

Calibration Check

Time Start 13:40 **Time Finish 14:09**

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	25.87	± 0.1	GWMP
pH (SU)	7.00	7.00	26.16	± 0.1	GWMP
pH (SU)	10.00	10.00	25.92	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	10.0	± 10% of standard	EPA 2023
	20	19.9		
	100	100		
	800	801		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 8/21/2024

Calibrated By: David Prouty

Field Conditions: Clear

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	513478
Turbidity Meter	HACH 2100Q	24030D000276

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	22.12	± 0.1	GWMP
pH (SU)	7.00	7.00	22.28	± 0.1	GWMP
pH (SU)	10.00	10.00	21.88	± 0.1	GWMP
D.O. (%)	N/A	100.00	21.50	± 10%	NA
ORP (mV)	229.0	233.5	21.63	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	9.49	± 10% of standard	EPA 2023
	20	19.3		
	100	101		
	800	800		

Calibration Check					
Time Start 13:30		**Time Finish 14:05**			
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	29.10	± 0.1	GWMP
pH (SU)	7.00	7.00	28.20	± 0.1	GWMP
pH (SU)	10.00	10.00	29.68	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	9.79	± 10% of standard	EPA 2023
	20	19.6		
	100	101		
	800	800		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 8/22/2024

Calibrated By: David Prouty

Field Conditions: Cloudy

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	513478
Turbidity Meter	HACH 2100Q	24030D000276

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 7:50**			
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	24.09	± 0.1	GWMP
pH (SU)	7.00	7.00	24.21	± 0.1	GWMP
pH (SU)	10.00	10.00	24.05	± 0.1	GWMP
D.O. (%)	N/A	100.00	22.08	± 10%	NA
ORP (mV)	229.0	231.4	23.22	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	9.93	± 10% of standard	EPA 2023
	20	20.2		
	100	100		
	800	807		

Calibration Check					
Time Start 13:40		**Time Finish 14:15**			
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	26.35	± 0.1	GWMP
pH (SU)	7.00	7.00	27.59	± 0.1	GWMP
pH (SU)	10.00	10.00	27.14	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	10.2	± 10% of standard	EPA 2023
	20	20.1		
	100	99.8		
	800	802		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 8/23/2024

Calibrated By: David Prouty

Field Conditions: Clear

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	513478
Turbidity Meter	HACH 2100Q	24030D000276

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 7:15		**Time Finish 7:50**			
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	22.17	± 0.1	GWMP
pH (SU)	10.00	10.00	21.38	± 0.1	GWMP
D.O. (%)	N/A	100.00	22.21	± 10%	NA
ORP (mV)	229.0	229.0	21.39	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	9.79	± 10% of standard	EPA 2023
	20	20.1		
	100	101		
	800	798		

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: 8/20/2024

Calibrated By: Jessica Ware

Field Conditions: Clear

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	875341
Turbidity Meter	Hach 2100Q	12010C015584

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 7:15 **Time Finish 7:50**

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	22.24	± 0.1	GWMP
pH (SU)	7.00	7.02	21.97	± 0.1	GWMP
pH (SU)	10.00	10.05	22.10	± 0.1	GWMP
D.O. (%)	N/A	100.00	21.75	± 10%	NA
ORP (mV)	229.0	229.0	22.03	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	10.00	± 10% of standard	EPA 2023
	20	19.7		
	100	100		
	800	780		

Calibration Check

Time Start 12:55 **Time Finish 13:20**

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	4.01	31.89	± 0.1	GWMP
pH (SU)	7.00	7.00	29.70	± 0.1	GWMP
pH (SU)	10.00	10.00	30.50	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	10.40	± 10% of standard	EPA 2023
	20	19.9		
	100	100		
	800	784		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 8/21/2024

Calibrated By: Jessica Ware

Field Conditions: Clear

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	875341
Turbidity Meter	Hach 2100Q	12010C015584

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 7:50**

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	21.82	± 0.1	GWMP
pH (SU)	7.00	7.00	21.59	± 0.1	GWMP
pH (SU)	10.00	10.00	21.63	± 0.1	GWMP
D.O. (%)	N/A	100.00	22.50	± 10%	NA
ORP (mV)	229.0	229.0	21.78	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	10.5	± 10% of standard	EPA 2023
	20	21.0		
	100	104		
	800	800		

Calibration Check

Time Start 14:10 **Time Finish 14:30**

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	34.8	± 0.1	GWMP
pH (SU)	7.00	7.00	34.99	± 0.1	GWMP
pH (SU)	10.00	10.00	34.88	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	9.95	± 10% of standard	EPA 2023
	20	19.5		
	100	100		
	800	809		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 8/22/2024

Calibrated By: Jessica Ware

Field Conditions: Cloudy

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	875341
Turbidity Meter	Hach 2100Q	12010C015584

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 7:50**			
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	21.95	± 0.1	GWMP
pH (SU)	7.00	7.00	21.92	± 0.1	GWMP
pH (SU)	10.00	10.00	21.97	± 0.1	GWMP
D.O. (%)	N/A	100.00	22.23	± 10%	NA
ORP (mV)	229.0	229.0	21.92	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	9.96	± 10% of standard	EPA 2023
	20	20.1		
	100	98.6		
	800	799		

Calibration Check					
Time Start 12:05		**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	26.34	± 0.1	GWMP
pH (SU)	7.00	7.00	27.25	± 0.1	GWMP
pH (SU)	10.00	10.00	26.90	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	10.3	± 10% of standard	EPA 2023
	20	20.1		
	100	100		
	800	801		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 8/23/2024

Calibrated By: Jessica Ware

Field Conditions: Clear

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	875341
Turbidity Meter	Hach 2100Q	12010C015584

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 7:06 **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	21.92	± 0.1	GWMP
pH (SU)	7.00	7.00	22.07	± 0.1	GWMP
pH (SU)	10.00	10.00	22.23	± 0.1	GWMP
D.O. (%)	N/A	100.00	22.36	± 10%	NA
ORP (mV)	229.0	233.6	21.56	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	10.0	± 10% of standard	EPA 2023
	20	20.4		
	100	102		
	800	801		

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:

ARCADIS Design & Consultancy for natural and built assets

Groundwater Gauging Log

Client:	Georgia Power
Project Location:	AMA R6 CCR Landfill
Date:	8/19/2024
Sampler:	Jessica Ware Jake Swanson
Equipment:	water probe

Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
PZ-35	8/19/2024	09:13:00	8.72	50.01	--
YAMW-1	8/19/2024	09:19:00	8.58	69.93	--
YGWC-36A	8/19/2024	09:34:00	7.72	51.20	--
PZ-24IB	8/19/2024	09:46:00	25.87	73.42	--
YGWC-24SB	8/19/2024	09:50:00	25.49	57.79	--
PZ-48	8/19/2024	09:57:00	22.56	58.73	--
YGWC-49	8/19/2024	10:36:00	32.84	78.53	--
PZ-52D	8/19/2024	10:48:00	6.37	92.00	--
PZ-37	8/19/2024	10:49:00	10.80	49.78	--
PZ-37D	8/19/2024	11:00:00	2.85	202.44	--
PZ-53D	8/19/2024	11:02:00	4.53	160.00	--
YGWC-23S	8/19/2024	11:23:00	16.65	38.91	--
YAMW-5	8/19/2024	11:42:00	15.57	90.34	--
YGWC-38	8/19/2024	11:45:00	30.18	50.59	--
YAMW-4	8/19/2024	11:57:00	33.14	96.55	--
YGWC-41	8/19/2024	11:59:00	29.33	67.32	--
YAMW-2	8/19/2024	12:04:00	24.20	46.48	--
YAMW-3	8/19/2024	12:13:00	37.43	91.44	--
YGWC-42	8/19/2024	12:16:00	29.34	59.76	--
PZ-54D	8/19/2024	12:19:00	103.82	137.06	--
PZ-55	8/19/2024	12:26:00	28.55	68.45	--
YGWC-43	8/19/2024	12:36:00	17.12	79.66	--
PZ-51	8/19/2024	12:41:00	7.90	36.00	--
PZ-06D	8/19/2024	13:59:00	23.69	134.02	--
YGWA-6S	8/19/2024	14:00:00	21.02	39.87	--

Groundwater Gauging Log

Client:	Georgia Power
Project Location:	AMA R6 CCR Landfill
Date:	8/19/2024
Sampler:	Jessica Ware Jake Swanson
Equipment:	water probe

Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
YGWA-6I	8/19/2024	14:01:00	21.25	69.03	--
YGWC-50	8/19/2024	14:05:00	5.72	39.28	--
PZ-05S	8/19/2024	14:28:00	20.45	41.94	--
PZ-04S	8/19/2024	14:39:00	26.14	33.33	--
PZ-56D	8/19/2024	15:04:00	43.13	198.06	--

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 8/21/2024 9:38:05 PM +00:00

Project Number	30143622	**Well ID**	PZ-55			**Date**	8/21/2024
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	57.72	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	28.53	**Total Depth (ft-bmp)**	68.45	**Water Column(ft)**	39.92	**Gallons in Well**	6.49
MP Elevation	774.02	**Pump Intake (ft-bmp)**	62.72	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	16:03	**Well Volumes Purged**	0.15	**Sample ID**	YAT-PZ-55	**Sampled by**	Jessica Ware
Purge Start	14:50	**Gallons Purged**	0.96	**Replicate/ Code No.**		**Color**	Clear
Purge End	16:02						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
14:50:00	00:00	150	28.5	6.47	507.60	135.00	3.42	28.40	-6.06
14:55:00	05:00	50	29.6	6.38	480.02	23.30	0.90	23.60	-27.67
15:00:00	10:00	50	29.89	6.34	471.87	17.40	0.66	23.90	-22.69
15:05:00	15:00	50	30.22	6.30	465.83	19.30	0.51	23.40	-18.75
15:10:00	20:00	50	30.55	6.11	433.32	19.90	0.81	22.60	19.87
15:15:00	25:00	50	30.84	5.84	413.70	11.20	1.39	22.20	65.88
15:20:00	30:00	50	31.12	5.69	402.05	6.65	1.81	22.30	99.36
15:25:00	35:00	50	31.38	5.63	398.25	5.52	2.00	22.90	120.82
15:30:00	40:00	40	31.54	5.63	392.51	4.72	2.09	23.20	127.94
15:35:00	45:00	40	31.74	5.64	391.75	3.28	2.17	23.00	132.07
15:39:00	48:25	40	31.85	5.66	391.38	3.10	2.20	23.10	134.48
15:44:00	53:25	40	32.03	5.68	393.36	5.82	2.24	23.50	139.17
15:49:00	58:25	40	32.17	5.71	392.85	3.12	2.24	23.80	141.95
15:54:00	03:25	40	32.29	5.73	393.22	3.68	2.24	24.20	143.50
15:59:00	08:25	40	32.43	5.75	393.71	2.27	2.26	24.40	145.53

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

Comments: Permission to sample at 40mL/min from G. Gay at 1547

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

Updated : 8/22/2024 12:45:06 PM +00:00

Project Number	30143608	**Well ID**	YAMW-2			**Date**	8/21/2024
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	36.44	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	24.27	**Total Depth (ft-bmp)**	46.48	**Water Column(ft)**	22.21	**Gallons in Well**	3.61
MP Elevation	781.04	**Pump Intake (ft-bmp)**	41.44	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	16:55	**Well Volumes Purged**	0.18	**Sample ID**	YAT-YAMW-2	**Sampled by**	David Prouty
Purge Start	16:22	**Gallons Purged**	0.66	**Replicate/ Code No.**		**Color**	Clear
Purge End	17:40						

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)
16:22:00	00:00	100	24.32	5.77	52.27	0.23	5.25	20.60	203.90
16:27:00	05:00	100	24.32	5.59	52.53	3.04	4.33	19.60	225.08
16:32:00	10:00	100	24.32	5.50	52.34	2.21	4.29	19.70	234.19
16:37:00	15:00	100	24.32	5.47	52.53	1.74	4.23	19.70	237.91
16:42:00	20:00	100	24.32	5.46	52.49	1.45	4.17	19.60	239.05
16:47:00	25:00	100	24.32	5.50	52.47	1.40	4.09	19.60	238.08

Constituent Sampled	Container	Number	Preservative
Cl, SO4, F	250 mL Plastic	1	None
Metals	250 mL Plastic	1	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 : 8/22/2024 3:37:28 PM +00:00

Project Number	30143622	**Well ID**	YAMW-3			**Date**	8/22/2024
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	81.45	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	37.44	**Total Depth (ft-bmp)**	91.44	**Water Column(ft)**	54.00	**Gallons in Well**	8.77
MP Elevation	796.05	**Pump Intake (ft-bmp)**	86.5	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	09:49	**Well Volumes Purged**	0.09	**Sample ID**	YAT-YAMW-3	**Sampled by**	Jessica Ware
Purge Start	09:07	**Gallons Purged**	0.83	**Replicate/ Code No.**		**Color**	Clear
Purge End	09:48						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
9:07:00	00:00	110	37.44	6.15	1117.64	6.73	3.92	22.00	172.93
9:12:00	05:00	100	38.63	5.74	1122.99	3.40	0.63	20.30	183.56
9:17:00	10:00	100	39.17	5.75	1125.73	2.50	0.42	20.40	189.54
9:22:00	15:00	100	39.67	5.75	1138.43	1.88	0.33	20.50	186.46
9:27:00	20:00	60	39.89	5.74	1123.05	2.60	0.32	21.30	182.21
9:32:00	25:00	60	40.07	5.74	1122.28	1.72	0.31	21.60	179.96
9:37:00	30:00	50	40.22	5.73	1137.42	2.12	0.28	21.90	176.34
9:42:00	35:00	50	40.24	5.72	1123.70	1.62	0.32	22.90	173.65
9:47:00	40:00	50	40.27	5.70	1143.65	1.43	0.31	23.10	171.26

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

Comments: Sampled at 50mL/min to stabilize water level. Historical record of draw down.

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 : 8/22/2024 3:44:13 PM +00:00

Project Number	30143622	**Well ID**	YGWC-42			**Date**	8/22/2024
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	49.36	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	29.39	**Total Depth (ft-bmp)**	59.76	**Water Column(ft)**	30.37	**Gallons in Well**	4.93
MP Elevation	797.86	**Pump Intake (ft-bmp)**	55	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	11:23	**Well Volumes Purged**	0.17	**Sample ID**	YAT-YGWC-42	**Sampled by**	Jessica Ware
Purge Start	10:51	**Gallons Purged**	0.86	**Replicate/ Code No.**	YAT-AMA-R6-FB-1	**Color**	Clear
Purge End	10:50						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
10:51:00	00:00	150	30.42	6.30	1262.73	5.27	7.22	24.20	159.14
10:56:00	05:00	100	29.39	5.52	1187.52	1.75	2.21	20.50	41.62
11:01:00	10:00	100	30.71	5.49	1160.74	1.44	1.53	20.30	96.86
11:06:00	15:00	100	31.07	5.49	1150.14	1.42	1.48	20.20	134.55
11:11:00	20:00	100	31.24	5.50	1154.52	1.24	1.41	20.00	150.76
11:16:00	25:00	100	31.38	5.51	1163.62	1.38	1.32	20.00	157.47
11:21:00	30:00	100	31.53	5.51	1172.50	1.03	1.29	19.90	160.73

Constituent Sampled	Container	Number	Preservative
Anions	250 mL Plastic	1	None
Metals	250 mL Plastic	1	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 : 8/22/2024 3:59:53 PM +00:00

Project Number	30143608	**Well ID**	YAMW-1			**Date**	8/22/2024
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	59.6	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	8.62	**Total Depth (ft-bmp)**	69.93	**Water Column(ft)**	61.31	**Gallons in Well**	9.96
MP Elevation	743.83	**Pump Intake (ft-bmp)**	64.6	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	10:15	**Well Volumes Purged**	0.05	**Sample ID**	YAT-YAMW-1	**Sampled by**	David Prouty
Purge Start	09:46	**Gallons Purged**	0.53	**Replicate/ Code No.**	YAT-AMA-R6-FD-1	**Color**	Clear
Purge End	11:46						

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)
9:46:00	00:00	100	8.22	5.44	705.68	2.69	1.35	22.70	224.77
9:51:00	05:00	100	8.26	5.32	721.71	1.59	1.41	22.20	234.05
9:56:00	10:00	100	8.28	5.31	725.90	1.64	1.41	22.30	230.98
10:01:00	15:00	100	8.29	5.31	727.36	0.97	1.39	21.80	227.58
10:06:00	20:00	100	8.29	5.32	727.34	1.14	1.40	21.60	226.19

Constituent Sampled	Container	Number	Preservative
Cl, SO4, F	250 mL Plastic	1	None
Metals	250 mL Plastic	1	HNO3
RAD Chem	1L Amber	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 : 8/22/2024 6:25:01 PM +00:00

Project Number	30143608	**Well ID**	PZ-35			**Date**	8/22/2024
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	38.91	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	8.78	**Total Depth (ft-bmp)**	50.01	**Water Column(ft)**	41.23	**Gallons in Well**	6.70
MP Elevation	743.81	**Pump Intake (ft-bmp)**	45	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	12:40	**Well Volumes Purged**	0.10	**Sample ID**	YAT-PZ-35	**Sampled by**	David Prouty
Purge Start	12:08	**Gallons Purged**	0.66	**Replicate/ Code No.**		**Color**	Clear
Purge End	13:20						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
12:08:00	00:00	100	8.78	5.36	386.02	1.93	5.29	22.90	210.48
12:13:00	05:00	100	8.83	5.15	330.87	1.79	4.11	22.70	220.20
12:18:00	10:00	100	8.85	5.10	321.19	2.60	3.98	23.90	220.03
12:23:00	15:00	100	8.87	5.10	334.97	2.21	4.00	23.80	215.49
12:28:00	20:00	100	8.87	5.12	337.27	2.54	4.11	23.50	220.42
12:33:00	25:00	100	8.87	5.13	331.03	2.63	4.06	23.50	219.48

Constituent Sampled	Container	Number	Preservative
Cl, SO4, F	250 mL Plastic	1	None
Metals	250 mL Plastic	1	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 : 8/22/2024 8:15:04 PM +00:00

Project Number	30143622	**Well ID**	PZ-51			**Date**	8/22/2024
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	26.3	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	8.13	**Total Depth (ft-bmp)**	36	**Water Column(ft)**	27.87	**Gallons in Well**	4.53
MP Elevation	744.3	**Pump Intake (ft-bmp)**	31	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	16:06	**Well Volumes Purged**	0.31	**Sample ID**	YAT-PZ-51	**Sampled by**	Jessica Ware
Purge Start	15:33	**Gallons Purged**	1.39	**Replicate/ Code No.**		**Color**	Clear
Purge End	16:05						

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)
15:33:00	00:00	175	8.31	4.75	708.97	8.47	6.24	22.90	219.60
15:38:00	05:00	175	8.69	4.61	728.84	1.42	2.44	20.50	272.44
15:43:00	10:00	175	8.64	4.64	734.94	1.06	2.36	20.20	291.89
15:48:00	15:00	175	8.65	4.68	734.47	0.96	2.34	20.10	304.95
15:53:00	20:00	175	8.68	4.76	735.61	0.88	2.30	19.80	313.67
15:58:00	25:00	175	8.69	4.80	729.12	0.92	2.26	19.70	321.68
16:03:00	30:00	175	8.67	4.81	727.17	0.67	2.30	19.50	330.44

Constituent Sampled	Container	Number	Preservative
Anions	250 mL Plastic	1	None
Metals	250 mL Plastic	1	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 : 8/22/2024 8:32:04 PM +00:00

Project Number	30143608	**Well ID**	YGWC-36A			**Date**	8/22/2024
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	689.7	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	7.68	**Total Depth (ft-bmp)**	51.2	**Water Column(ft)**	43.52	**Gallons in Well**	7.07
MP Elevation	739.61	**Pump Intake (ft-bmp)**	46	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	15:05	**Well Volumes Purged**	0.08	**Sample ID**	YAT-YGWC-36A	**Sampled by**	David Prouty
Purge Start	14:32	**Gallons Purged**	0.59	**Replicate/ Code No.**		**Color**	Clear
Purge End	16:01						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
14:32:00	00:00	90	7.86	5.19	306.69	1.85	2.48	23.90	217.11
14:37:00	05:00	90	7.88	4.83	435.87	2.93	3.20	23.30	231.23
14:42:00	10:00	90	7.88	4.81	446.53	2.64	3.20	22.90	230.56
14:47:00	15:00	90	7.88	4.81	451.01	1.81	3.18	23.40	229.10
14:52:00	20:00	90	7.88	4.81	453.02	1.02	3.19	23.70	229.41
14:57:00	25:00	90	7.88	4.82	453.48	0.79	3.17	23.90	226.35

Constituent Sampled	Container	Number	Preservative
Cl, SO4, F	250 mL Plastic	1	None
Metals	250 mL Plastic	1	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 : 8/22/2024 10:48:15 PM +00:00

Project Number	30143608	**Well ID**	YGWC-24SB			**Date**	8/22/2024
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	47.59	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	25.5	**Total Depth (ft-bmp)**	57.79	**Water Column(ft)**	32.29	**Gallons in Well**	5.25
MP Elevation	764.89	**Pump Intake (ft-bmp)**	52	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	17:40	**Well Volumes Purged**	0.25	**Sample ID**	YAT-YGWC-24SB	**Sampled by**	David Prouty
Purge Start	16:40	**Gallons Purged**	1.31	**Replicate/ Code No.**		**Color**	Clear
Purge End	18:40						

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)
16:40:00	00:00	90	25.8	5.41	67.69	1.31	7.67	23.80	193.39
16:45:00	05:00	90	25.8	5.14	67.38	14.20	7.64	22.40	208.46
16:50:00	10:00	90	25.78	5.14	66.67	11.00	7.63	22.40	207.82
16:55:00	15:00	90	25.75	5.16	66.68	13.80	7.67	22.30	205.74
17:00:00	20:00	90	25.75	5.17	66.53	11.30	7.67	22.40	203.38
17:05:00	25:00	90	25.75	5.17	66.12	8.32	7.65	22.20	204.59
17:10:00	30:00	90	25.75	5.17	65.81	8.09	7.63	22.10	204.83
17:15:00	35:00	90	25.75	5.17	65.30	8.03	7.59	22.10	203.33
17:20:00	40:00	90	25.75	5.17	65.12	5.83	7.59	21.90	202.56
17:25:00	45:00	90	25.75	5.18	65.31	4.55	7.57	22.00	202.80
17:30:00	50:00	90	25.75	5.20	64.97	3.77	7.58	21.90	201.97
17:35:00	55:00	90	25.75	5.21	65.26	4.59	7.54	21.80	200.96

Constituent Sampled	Container	Number	Preservative
Cl, SO4, F	250 mL Plastic	1	None
Metals	250 mL Plastic	1	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: _____

Groundwater Sampling Form

Updated : 8/23/2024 2:21:42 PM +00:00

Project Number	30143622	**Well ID**	YAMW-4			**Date**	8/23/2024
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	86.59	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	33.16	**Total Depth (ft-bmp)**	96.55	**Water Column(ft)**	63.39	**Gallons in Well**	10.30
MP Elevation	805.59	**Pump Intake (ft-bmp)**	91.55	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	08:39	**Well Volumes Purged**	0.12	**Sample ID**	YAT-YAMW-4	**Sampled by**	Jessica Ware
Purge Start	08:01	**Gallons Purged**	1.19	**Replicate/ Code No.**		**Color**	Clear
Purge End	08:38						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
8:01:00	00:00	200	33.16	6.61	578.60	0.98	8.73	20.40	209.88
8:06:00	05:00	150	35.12	5.89	571.34	3.31	1.23	18.20	200.62
8:11:00	10:00	125	36.12	5.89	562.29	2.13	0.50	18.20	194.83
8:16:00	15:00	125	36.67	5.90	557.44	1.15	0.60	18.50	195.10
8:21:00	20:00	100	37.04	5.90	556.54	1.00	0.58	18.60	188.30
8:26:00	25:00	100	37.31	5.91	557.78	0.89	0.66	18.70	186.79
8:31:00	30:00	100	37.47	5.92	557.48	0.65	0.78	18.80	184.30
8:36:00	35:00	100	37.6	5.92	558.31	0.44	0.85	18.90	182.36

Constituent Sampled	Container	Number	Preservative
Anions	250 mL Plastic	1	None
Metals	250 mL Plastic	1	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 : 8/27/2024 2:00:42 PM +00:00

Project Number	30143622	**Well ID**	YGWC-41			**Date**	8/23/2024
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	56.82	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	29.38	**Total Depth (ft-bmp)**	67.32	**Water Column(ft)**	37.94	**Gallons in Well**	6.16
MP Elevation	803.92	**Pump Intake (ft-bmp)**	62	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	10:00	**Well Volumes Purged**	0.24	**Sample ID**	YAT-YGWC-41	**Sampled by**	Jessica Ware
Purge Start	09:13	**Gallons Purged**	1.49	**Replicate/ Code No.**		**Color**	Clear
Purge End	09:59						

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	125	29.38	6.36	297.10	1.81	8.18	22.00	166.38
9:18:00	05:00	125	29.59	5.16	299.24	1.16	4.51	21.30	118.81
9:23:00	10:00	125	29.69	5.03	293.19	0.50	4.39	20.80	156.84
9:28:00	15:00	125	29.64	5.01	289.20	0.42	4.17	19.70	182.75
9:33:00	20:00	125	29.78	5.03	286.27	0.49	5.07	19.50	189.49
9:38:00	25:00	125	29.72	5.08	283.84	0.54	6.85	19.40	188.84
9:43:00	30:00	125	29.79	5.11	281.84	0.66	8.11	19.40	189.20
9:48:00	35:00	125	29.83	5.15	285.62	0.52	8.80	19.50	201.64
9:53:00	40:00	125	29.75	5.17	286.53	0.83	9.30	19.60	192.58
9:58:00	45:00	125	29.81	5.18	284.95	0.74	9.66	19.50	191.47

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

Comments: Sample visibly aerated

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 : 9/9/2024 5:51:23 PM +00:00

Project Number	30143623	**Well ID**	Ygwc-23S			**Date**	8/21/2024
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**		**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	16.71	**Total Depth (ft-bmp)**	38.91	**Water Column(ft)**	22.20	**Gallons in Well**	3.61
MP Elevation	764.91	**Pump Intake (ft-bmp)**	34	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	17:40	**Well Volumes Purged**	0.31	**Sample ID**	YAT-YGWC-23S	**Sampled by**	Perry Studebaker
Purge Start	17:01	**Gallons Purged**	1.14	**Replicate/ Code No.**		**Color**	Clear
Purge End	17:37						

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)
17:01:00	00:00	100	17.02	5.33	256.68	9.57	7.05	23.00	124.79
17:06:00	05:00	100	17.02	5.32	255.64	8.69	6.88	23.80	133.69
17:11:00	10:00	100	17.02	5.33	252.19	6.50	6.94	22.80	138.69
17:16:00	15:00	100	17.02	5.32	250.31	5.44	6.88	22.60	144.25
17:22:00	21:02	100	17.02	5.14	249.22	4.72	6.84	23.10	166.04
17:27:00	26:02	100	17.02	5.38	247.55	2.40	7.04	23.30	146.86
17:32:00	31:02	100	17.02	5.41	245.30	2.06	7.03	22.60	152.86
17:37:00	36:02	100	17.02	5.40	244.96	1.73	7.03	22.40	157.88

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

Comments: YAT-AMA-R6-EB-1 taken @1840

Well Casing Volume Conversion

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

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Well Completion: _____ Key Number To Well: _____

Groundwater Sampling Form

Updated : 9/9/2024 5:52:35 PM +00:00

Project Number	30143623	**Well ID**	YGWC-38			**Date**	8/23/2024
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	39.59	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	30.43	**Total Depth (ft-bmp)**	50.59	**Water Column(ft)**	20.16	**Gallons in Well**	3.28
MP Elevation	799.69	**Pump Intake (ft-bmp)**	45	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	08:55	**Well Volumes Purged**	0.30	**Sample ID**	YAT-YGWC-38	**Sampled by**	Perry Studebaker
Purge Start	08:31	**Gallons Purged**	0.99	**Replicate/ Code No.**	YAT-AMA-R6-FD-2	**Color**	Clear
Purge End	08:51						

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)
8:31:00	00:00	150	31.31	5.54	518.18	1.73	5.11	18.60	161.89
8:36:00	05:00	150	31.35	5.11	476.24	1.52	3.36	18.30	166.76
8:41:00	10:00	150	31.35	5.06	471.79	0.74	3.53	18.10	174.62
8:46:00	15:00	150	31.35	5.06	471.30	0.38	3.53	18.10	180.73
8:51:00	20:00	150	31.35	5.06	471.30	0.25	3.54	18.10	185.57

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

Comments: DUP taken

Well Casing Volume Conversion

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

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Well Completion: _____ Key Number To Well: _____

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 9/9/2024 5:53:49 PM +00:00

Project Number	30143622	**Well ID**	YGWC-43			**Date**	8/22/2024
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	69.16	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	17.12	**Total Depth (ft-bmp)**	79.66	**Water Column(ft)**	62.54	**Gallons in Well**	10.16
MP Elevation	744.96	**Pump Intake (ft-bmp)**	75	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	14:06	**Well Volumes Purged**	0.18	**Sample ID**	YAT-YGWC-43	**Sampled by**	Jessica Ware
Purge Start	13:20	**Gallons Purged**	1.78	**Replicate/ Code No.**		**Color**	Clear
Purge End	14:05						

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)
13:20:00	00:00	150	17.12	4.71	386.43	10.60	3.54	20.80	225.08
13:25:00	05:00	150	17.21	5.61	460.34	3.68	1.24	19.80	-3.32
13:30:00	10:00	150	17.27	5.64	483.12	2.26	0.85	19.70	2.23
13:35:00	15:00	150	17.27	5.67	484.40	2.20	0.81	19.60	-0.69
13:40:00	20:00	150	17.27	5.68	483.08	4.47	0.34	19.50	-8.72
13:45:00	25:00	150	17.27	5.70	487.59	2.14	0.35	19.60	-16.17
13:52:00	32:30	150	17.27	5.76	488.92	1.02	0.35	19.90	-24.61
13:53:00	32:45	150	17.27	5.76	488.89	0.81	0.36	20.00	-24.88
13:58:00	37:45	150	17.27	5.79	490.86	0.76	0.39	20.00	-27.53
14:03:00	42:45	150	17.27	5.79	490.07	0.66	0.43	19.80	-29.02

Constituent Sampled	Container	Number	Preservative
Anions	1L Plastic	1	None
Metals	250 mL Plastic	1	HNO3
RAD Chem	1L Plastic	1	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 : 9/9/2024 5:55:09 PM +00:00

Project Number	30143623	**Well ID**	YGWC-49			**Date**	8/22/2024
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	68.03	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	32.84	**Total Depth (ft-bmp)**	78.53	**Water Column(ft)**	45.69	**Gallons in Well**	7.42
MP Elevation	782.73	**Pump Intake (ft-bmp)**	73	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	09:35	**Well Volumes Purged**	0.14	**Sample ID**	YAT-YGWC-49	**Sampled by**	Perry Studebaker
Purge Start	09:13	**Gallons Purged**	1.00	**Replicate/ Code No.**		**Color**	Clear
Purge End	09:33						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
9:13:00	00:00	150	32.84	5.79	207.27	0.82	4.08	19.70	138.83
9:18:00	05:00	150	33.38	5.64	198.76	0.55	3.47	19.50	148.85
9:23:00	10:00	150	33.39	5.68	196.16	0.38	3.33	19.60	154.65
9:28:00	15:00	150	33.39	5.72	196.14	0.62	3.29	19.40	161.11
9:33:00	20:00	150	33.39	5.74	196.92	0.66	3.28	19.60	167.00

Constituent Sampled	Container	Number	Preservative
Anions	250 mL Plastic	1	None
Metals	250 mL Plastic	1	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 : 9/9/2024 5:57:19 PM +00:00

Project Number	30143623	**Well ID**	PZ-37D			**Date**	8/21/2024
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	192.44	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	3.33	**Total Depth (ft-bmp)**	202.44	**Water Column(ft)**	199.11	**Gallons in Well**	32.35
MP Elevation	761.12	**Pump Intake (ft-bmp)**	197	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	15:35	**Well Volumes Purged**	0.05	**Sample ID**	YAT-PZ-37D	**Sampled by**	Perry Studebaker
Purge Start	14:28	**Gallons Purged**	1.51	**Replicate/ Code No.**		**Color**	Clear
Purge End	15:33						

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)
14:28:00	00:00	100	3.33	7.30	629.28	1.66	2.91	25.90	-143.34
14:33:00	05:00	100	4.01	7.34	638.03	0.84	1.64	25.90	-190.79
14:38:00	10:00	100	4.65	7.45	692.39	0.48	1.18	25.60	-214.59
14:43:00	15:00	100	5.15	7.63	913.26	0.38	0.98	24.60	-225.39
14:48:00	20:00	100	5.65	7.88	1227.14	0.49	0.72	24.30	-223.69
14:53:00	25:00	100	6.07	7.99	1347.47	0.56	0.52	24.20	-221.29
14:58:00	30:00	100	6.45	8.03	1369.03	0.44	0.45	24.60	-219.86
15:03:00	35:00	100	6.78	8.06	1368.95	0.43	0.40	24.30	-219.87
15:08:00	40:00	100	7.09	8.07	1366.68	0.41	0.37	23.60	-219.06
15:13:00	45:00	100	7.37	8.06	1342.45	0.53	0.36	23.40	-219.35
15:18:00	50:00	80	7.61	8.03	1293.19	0.39	0.33	23.50	-220.55
15:23:00	55:00	80	7.76	8.00	1250.87	0.51	0.31	24.00	-223.63
15:28:00	00:00	80	7.83	7.99	1221.14	0.44	0.30	23.80	-224.22
15:33:00	05:00	80	7.9	7.97	1194.83	0.53	0.28	24.00	-226.55

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

Comments: Slowed pump rate down below 100ml/min with permission from Geoff Gay

Well Casing Volume Conversion

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

Well Information

Groundwater Sampling Form

Updated : 9/9/2024 5:58:46 PM +00:00

Project Number	30143623	**Well ID**	PZ-37			**Date**	8/21/2024
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	39.28	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	10.89	**Total Depth (ft-bmp)**	49.78	**Water Column(ft)**	38.89	**Gallons in Well**	6.32
MP Elevation	760.78	**Pump Intake (ft-bmp)**	45	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	12:10	**Well Volumes Purged**	0.22	**Sample ID**	YAT-PZ-37	**Sampled by**	Perry Studebaker
Purge Start	11:38	**Gallons Purged**	1.39	**Replicate/ Code No.**		**Color**	Clear
Purge End	12:08						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
11:38:00	00:00	150	11.02	5.76	1046.61	6.91	0.57	22.00	-84.67
11:43:00	05:00	150	11.02	5.41	1045.64	4.28	0.43	21.70	-51.69
11:48:00	10:00	150	11.02	5.34	1047.78	2.33	1.00	21.60	-25.02
11:53:00	15:00	150	11.02	5.32	1052.25	1.85	1.19	22.00	-0.39
11:58:00	20:00	150	11.02	5.29	1060.90	1.50	1.34	21.90	18.33
12:03:00	25:00	150	11.02	5.29	1062.91	1.01	1.41	21.80	32.97
12:08:00	30:00	150	11.02	5.24	1070.48	1.65	1.47	21.70	46.58

Constituent Sampled	Container	Number	Preservative
Anions	250 mL Plastic	1	None
Metals	250 mL Plastic	1	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 : 9/9/2024 6:00:00 PM +00:00

Project Number	30143623	**Well ID**	PZ-52D			**Date**	8/21/2024
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	82	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	6.4	**Total Depth (ft-bmp)**	92	**Water Column(ft)**	85.60	**Gallons in Well**	13.91
MP Elevation	762.79	**Pump Intake (ft-bmp)**	87	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	10:15	**Well Volumes Purged**	0.10	**Sample ID**	YAT-PZ-52D	**Sampled by**	Perry Studebaker
Purge Start	09:27	**Gallons Purged**	1.35	**Replicate/ Code No.**		**Color**	Clear
Purge End	10:13						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (cm)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
9:27:00	00:00	150	6.65	6.17	770.29	4.83	0.87	20.90	-154.38
9:32:00	05:00	100	7.39	5.95	801.85	7.03	0.31	20.80	-114.39
9:37:00	10:00	100	7.88	5.95	798.18	4.26	0.31	21.10	-100.37
9:42:00	15:00	100	8.18	5.97	794.66	3.23	0.31	21.40	-100.03
9:47:00	20:00	100	8.47	5.96	794.03	1.87	0.29	21.30	-102.76
9:52:00	25:00	100	8.71	5.95	791.92	1.51	0.26	21.40	-105.50
9:57:00	30:00	100	8.92	5.96	794.48	1.39	0.25	21.30	-108.50
10:02:00	35:00	100	9.12	5.95	793.83	1.30	0.23	21.20	-110.91
10:07:00	40:00	100	9.26	5.96	797.05	1.14	0.23	21.50	-112.90
10:12:00	45:00	100	9.37	5.95	797.54	1.07	0.22	21.30	-113.82

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

Comments: Took extra measurements due to drawdown. Stabilization achieved after 45 minutes with 100ml/min pump rate

Well Casing Volume Conversion

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

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Well Completion: _____ Key Number To Well: _____

Groundwater Sampling Form

Updated : 9/9/2024 6:31:34 PM +00:00

Project Number	30113037	**Well ID**	YGWC-50			**Date**	8/23/2024
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	27.98	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	5.84	**Total Depth (ft-bmp)**	39.28	**Water Column(ft)**	33.44	**Gallons in Well**	5.43
MP Elevation	729.78	**Pump Intake (ft-bmp)**	36	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	09:05	**Well Volumes Purged**	0.33	**Sample ID**	YAT-YGWC-50	**Sampled by**	Kim Lapszynski
Purge Start	08:19	**Gallons Purged**	1.78	**Replicate/ Code No.**		**Color**	Clear
Purge End	09:04						

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)
8:19:00	00:00	150	5.84	4.88	2165.25	26.40	2.04	20.90	194.21
8:24:00	05:00	150	6.08	5.02	2137.31	12.60	0.18	20.50	140.23
8:29:00	10:00	150	6.07	4.99	2134.80	16.70	0.12	20.50	142.27
8:34:00	15:00	150	6.07	4.98	2136.97	13.90	0.22	20.40	149.65
8:39:00	20:00	150	6.07	5.01	2132.91	10.70	0.12	20.40	154.44
8:44:00	25:00	150	6.07	4.98	2122.85	4.42	0.07	20.30	166.24
8:49:00	30:00	150	6.07	4.97	2120.57	4.86	0.07	20.30	176.29
8:54:00	35:00	150	6.07	4.95	2113.15	2.94	0.10	20.40	194.36
8:59:00	40:00	150	6.07	4.94	2117.18	4.06	0.09	20.50	214.85
9:04:00	45:00	150	6.07	4.94	2114.73	4.01	0.04	20.50	226.63

Constituent Sampled	Container	Number	Preservative
App III/IV Metals	250 mL Plastic	1	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 : 10/7/2024 1:17:22 PM -04:00

Project Number	30143608	**Well ID**	YAMW-5			**Date**	08/23/2024
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	80.3	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	15.58	**Total Depth (ft-bmp)**	90.34	**Water Column(ft)**	74.76	**Gallons in Well**	12.15
MP Elevation	788.9	**Pump Intake (ft-bmp)**	86.3	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	08:55	**Well Volumes Purged**	0.05	**Sample ID**	YAT-YAMW-5	**Sampled by**	David Prouty
Purge Start	08:25	**Gallons Purged**	0.59	**Replicate/ Code No.**		**Color**	Clear
Purge End	09:42						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
08:25:00	00:00	90	16	5.28	827.73	0.36	2.44	18.8	219.89
08:30:00	05:00	90	16.02	5.27	861.44	0.46	2.00	19.0	221.16
08:35:00	10:00	90	16.05	5.27	864.63	0.18	1.64	19.2	219.49
08:40:00	15:00	90	16.08	5.27	852.69	0.18	1.63	19.3	219.35
08:45:00	20:00	90	16.09	5.28	846.58	0.32	1.68	19.4	216.51
08:50:00	25:00	90	16.1	5.28	842.26	0.38	1.65	19.6	215.41

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

Comments: None

Well Casing Volume Conversion

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

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	PZ-35
Person Gauging:	Jessica Ware
Date:	8/19/2024
Time:	09:13:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YAMW-1
Person Gauging:	Jessica Ware
Date:	8/19/2024
Time:	09:19:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	YGWC-36A
Person Gauging:	Jessica Ware
Date:	8/19/2024
Time:	09:34:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	PZ-24IB
Person Gauging:	Jessica Ware
Date:	8/19/2024
Time:	09:46:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWC-24SB
Person Gauging:	Jessica Ware
Date:	8/19/2024
Time:	09:50:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	PZ-48
Person Gauging:	Jessica Ware
Date:	8/19/2024
Time:	09:57:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
	Overgrown				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-1
Permit Number:	
Well ID:	PZ-53
Person Gauging:	Jake Swanson
Date:	8/19/2024
Time:	09:58:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
	Cut grass				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWC-49
Person Gauging:	Jessica Ware
Date:	8/19/2024
Time:	10:36:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
	Difficult to access				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	PZ-52D
Person Gauging:	Jessica Ware
Date:	8/19/2024
Time:	10:48:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	PZ-37
Person Gauging:	Jessica Ware
Date:	8/19/2024
Time:	10:49:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	PZ-37D
Person Gauging:	Jessica Ware
Date:	8/19/2024
Time:	11:00:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	PZ-53D
Person Gauging:	Jessica Ware
Date:	8/19/2024
Time:	11:02:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWC-23S
Person Gauging:	Jessica Ware
Date:	8/19/2024
Time:	11:23:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	YAMW-5
Person Gauging:	Jessica Ware
Date:	8/19/2024
Time:	11:42:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	YGWC-38
Person Gauging:	Jessica Ware
Date:	8/19/2024
Time:	11:45:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	YAMW-4
Person Gauging:	Jessica Ware
Date:	8/19/2024
Time:	11:57:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	YGWC-41
Person Gauging:	Jessica Ware
Date:	8/19/2024
Time:	11:59:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	YAMW-2
Person Gauging:	Jessica Ware
Date:	8/19/2024
Time:	12:04:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	YAMW-3
Person Gauging:	Jessica Ware
Date:	8/19/2024
Time:	12:13:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	YGWC-42
Person Gauging:	Jessica Ware
Date:	8/19/2024
Time:	12:16:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	PZ-54D
Person Gauging:	Jessica Ware
Date:	8/19/2024
Time:	12:19:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	PZ-55
Person Gauging:	Jessica Ware
Date:	8/19/2024
Time:	12:26:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	YGWC-43
Person Gauging:	Jessica Ware
Date:	8/19/2024
Time:	12:36:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	PZ-51
Person Gauging:	Jessica Ware
Date:	8/19/2024
Time:	12:41:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☑	☐	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
	Overgrown				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	PZ-06D
Person Gauging:	Jessica Ware
Date:	8/19/2024
Time:	13:59:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-6S
Person Gauging:	Jessica Ware
Date:	8/19/2024
Time:	14:00:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-6I
Person Gauging:	Jessica Ware
Date:	8/19/2024
Time:	14:01:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	YGWC-50
Person Gauging:	Jake Swanson
Date:	8/19/2024
Time:	14:05:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	PZ-05S
Person Gauging:	Jessica Ware
Date:	8/19/2024
Time:	14:28:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	PZ-04S
Person Gauging:	Jessica Ware
Date:	8/19/2024
Time:	14:39:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	PZ-56D
Person Gauging:	Jessica Ware
Date:	8/19/2024
Time:	15:04:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Upgradient Wells

ARCADIS Design & Consultancy for natural and built assets

Groundwater Gauging Log

Client:	Georgia Power
Project Location:	AMA AP-3, A, B and B'
Date:	8/19/2024
Sampler:	Jessica Ware Jake Swanson
Equipment:	water probe

Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
YGWA-47	8/19/2024	09:13:00	34.93	59.19	--
YGWA-17S	8/19/2024	10:13:00	13.55	39.85	--
YGWA-18I	8/19/2024	10:21:00	24.75	79.97	--
YGWA-18S	8/19/2024	10:23:00	21.67	39.97	--
YGWA-39	8/19/2024	11:09:00	19.63	68.59	--
YGWA-40	8/19/2024	11:51:00	24.92	48.23	--
YGWA-14S	8/19/2024	11:54:00	17.10	34.96	--
YGWA-30I	8/19/2024	12:09:00	43.27	59.48	--
YGWA-2I	8/19/2024	12:09:00	45.81	63.75	--
YGWA-1I	8/19/2024	12:41:00	38.46	53.60	--
YGWA-1D	8/19/2024	12:42:00	50.88	128.85	--
YGWA-20S	8/19/2024	14:11:00	11.80	29.52	--
YGWA-21I	8/19/2024	14:17:00	31.88	79.90	--
YGWA-5I	8/19/2024	14:30:00	20.48	58.94	--
YGWA-5D	8/19/2024	14:31:00	20.47	129.13	--
YGWA-4I	8/19/2024	14:38:00	24.73	48.81	--
YGWA-3I	8/19/2024	14:55:00	53.09	59.05	--
YGWA-3D	8/19/2024	14:57:00	33.15	134.18	--

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 8/20/2024 2:41:56 PM +00:00

Project Number	30143623	**Well ID**	YGWA-5I			**Date**	8/20/2024
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 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)	20.6	**Total Depth (ft-bmp)**	58.94	**Water Column(ft)**	38.34	**Gallons in Well**	6.23
MP Elevation	784.54	**Pump Intake (ft-bmp)**	53	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	09:59	**Well Volumes Purged**		**Sample ID**	YAT-YGWA-5I	**Sampled by**	Perry Studebaker
Purge Start	09:36	**Gallons Purged**		**Replicate/ Code No.**		**Color**	Clear
Purge End	09:56						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
9:36:00	00:00	150	20.6	5.74	82.90	1.19	5.58	18.80	140.70
9:41:00	05:00	150	20.68	5.58	82.45	0.66	5.48	18.20	150.39
9:46:00	10:00	150	20.73	5.57	82.20	0.43	5.41	18.10	154.24
9:51:00	15:00	150	20.74	5.57	82.14	0.45	5.28	18.10	155.81
9:56:00	20:00	150	20.77	5.59	81.86	0.61	5.30	18.10	156.35

Constituent Sampled	Container	Number	Preservative
Anions	250 mL Plastic	1	None
Dissolved Metals	250 mL Plastic	1	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 : 8/20/2024 3:34:14 PM +00:00

Project Number	30143608	**Well ID**	YGWA-1I			**Date**	8/20/2024
Project Location	AP-2		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 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)	38.5	**Total Depth (ft-bmp)**	53.6	**Water Column(ft)**	15.10	**Gallons in Well**	2.45
MP Elevation	836.6	**Pump Intake (ft-bmp)**	49	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	10:25	**Well Volumes Purged**	0.33	**Sample ID**	YAT-YGWA-1I	**Sampled by**	David Prouty
Purge Start	09:44	**Gallons Purged**	0.82	**Replicate/ Code No.**	YAT-UGRD-FD-1	**Color**	Clear
Purge End	11:18						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
9:44:00	00:00	100	38.5	6.40	89.50	0.56	3.75	19.30	135.60
9:45:00	01:00	100	38.5	6.26	80.97	0.56	2.94	18.80	66.20
9:50:00	06:00	100	41.83	5.77	59.48	1.54	4.43	17.00	141.73
9:55:00	11:00	100	41.8	5.78	49.28	0.54	5.00	17.40	158.43
10:00:00	16:00	100	41.8	5.85	47.05	0.50	5.32	18.20	160.47
10:05:00	21:00	100	41.8	5.91	43.82	0.40	5.59	18.00	170.04
10:10:00	26:00	100	41.79	5.93	43.10	0.60	5.70	18.00	178.90
10:15:00	31:00	100	41.79	5.92	43.68	0.59	5.60	18.00	184.10

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

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____

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 : 8/20/2024 4:21:28 PM +00:00

Project Number	30143623	**Well ID**	YGWA-4I			**Date**	8/20/2024
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 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)	24.78	**Total Depth (ft-bmp)**	48.81	**Water Column(ft)**	24.03	**Gallons in Well**	3.90
MP Elevation	784.21	**Pump Intake (ft-bmp)**	45	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	12:00	**Well Volumes Purged**		**Sample ID**	YAT-YGWA-4I	**Sampled by**	Perry Studebaker
Purge Start	11:11	**Gallons Purged**		**Replicate/ Code No.**		**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)
11:11:00	00:00	150	24.78	6.09	139.68	0.28	3.50	17.80	152.58
11:16:00	05:00	150	24.88	6.04	143.01	0.22	1.61	17.60	153.33
11:21:00	10:00	150	24.93	6.08	140.47	0.36	1.66	17.60	151.57
11:26:00	15:00	150	24.96	6.15	136.29	0.27	2.54	17.60	150.18
11:31:00	20:00	150	24.98	6.15	135.03	0.22	2.71	17.60	149.46
11:36:00	25:00	150	25	6.11	134.44	0.21	2.54	17.10	149.51
11:41:00	29:31	150	25.01	6.09	132.35	0.18	2.25	17.00	147.98
11:46:00	34:31	150	25.03	6.09	131.92	0.21	2.34	17.30	146.53
11:51:00	39:31	150	25.03	6.01	130.26	0.22	2.37	17.40	149.50
11:52:00	40:49	150	25.03	6.03	128.80	0.22	2.45	17.50	148.00
11:54:00	42:36	150	25.03	6.00	127.14		2.45	17.60	148.98
11:54:00	43:09	150	25.03	6.00	127.03		2.48	17.40	148.48

Constituent Sampled	Container	Number	Preservative
Anions	250 mL Plastic	1	None
Metals	250 mL Plastic	1	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: _____

Groundwater Sampling Form

Updated : 8/20/2024 5:17:34 PM +00:00

Project Number	30143608	**Well ID**	YGWA-1D			**Date**	8/20/2024
Project Location	AP-2		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	78.05	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	49.87	**Total Depth (ft-bmp)**	128.85	**Water Column(ft)**	78.98	**Gallons in Well**	12.83
MP Elevation	837.25	**Pump Intake (ft-bmp)**	108	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	12:30	**Well Volumes Purged**	0.07	**Sample ID**	YAT-YGWA-1D	**Sampled by**	David Prouty
Purge Start	11:47	**Gallons Purged**	0.92	**Replicate/ Code No.**		**Color**	Clear
Purge End	13:10						

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)
11:47:00	00:00	100	49.93	7.10	140.92	0.53	4.36	19.80	-64.78
11:52:00	05:00	100	49.93	7.16	154.01	0.63	2.50	19.70	-77.67
11:57:00	10:00	100	49.93	7.21	160.89	1.17	1.54	19.70	-83.86
12:02:00	15:00	100	49.93	7.23	163.49	0.49	0.98	19.30	-86.56
12:07:00	20:00	100	49.93	7.22	166.80	0.79	0.60	18.30	-85.32
12:12:00	25:00	100	49.93	7.18	165.95	1.27	0.46	18.10	-79.16
12:17:00	30:00	100	49.93	7.17	163.82	1.65	0.36	18.50	-73.34
12:22:00	35:00	100	49.93	7.16	160.88	2.42	0.35	18.80	-67.04

Constituent Sampled	Container	Number	Preservative
Cl, SO4, F	250 mL Plastic	1	None
Metals	250 mL Plastic	1	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 : 8/20/2024 5:31:58 PM +00:00

Project Number	30113037	**Well ID**	YGWA-3D			**Date**	8/20/2024
Project Location	AP-2		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 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)	33.08	**Total Depth (ft-bmp)**	134.18	**Water Column(ft)**	101.10	**Gallons in Well**	16.43
MP Elevation	796.78	**Pump Intake (ft-bmp)**	113	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	13:02	**Well Volumes Purged**	0.05	**Sample ID**	YAT-YGWA-3D	**Sampled by**	Kim Lapszynski
Purge Start	12:40	**Gallons Purged**	0.79	**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	150	33.08	6.84	240.01	0.73	2.56	28.70	18.46
12:45:00	05:00	150	33.18	7.32	232.83	1.05	0.35	20.00	-145.62
12:50:00	10:00	150	33.18	7.51	234.66	0.42	0.15	19.90	-147.79
12:55:00	15:00	150	33.18	7.56	234.23	0.25	0.12	20.00	-147.74
13:00:00	20:00	150	33.19	7.59	234.87	0.27	0.12	20.10	-150.23

Constituent Sampled	Container	Number	Preservative
App III/IV Metals	250 mL Plastic	1	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 : 8/20/2024 6:29:30 PM +00:00

Project Number	30143623	**Well ID**	YGWA-20S			**Date**	8/20/2024
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Outer Casing	**Screen Setting (ft-bmp)**	19.22	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	11.98	**Total Depth (ft-bmp)**	29.52	**Water Column(ft)**	17.54	**Gallons in Well**	2.85
MP Elevation	767.12	**Pump Intake (ft-bmp)**	24.5	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	14:30	**Well Volumes Purged**		**Sample ID**	YGWA-20S	**Sampled by**	Perry Studebaker
Purge Start	14:00	**Gallons Purged**		**Replicate/ Code No.**		**Color**	Clear
Purge End	14:25						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (cm)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
14:00:00	00:00	150	12.17	5.89	54.09	3.66	7.46	19.30	134.23
14:05:00	05:00	150	12.22	5.74	53.14	2.44	7.35	18.60	150.13
14:10:00	10:00	150	12.26	5.81	54.20	1.63	7.31	19.30	150.68
14:15:00	15:00	150	12.3	5.90	54.28	1.48	7.34	20.00	146.84
14:20:00	20:00	150	12.31	5.98	54.67	1.17	7.30	21.10	145.33
14:25:00	25:00	150	12.32	6.00	53.79	1.07	7.16	21.30	147.91

Constituent Sampled	Container	Number	Preservative
Anions	250 mL Plastic	1	None
Metals	250 mL Plastic	1	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 : 8/20/2024 7:41:03 PM +00:00

Project Number	30113037	**Well ID**	YGWA-3I			**Date**	8/20/2024
Project Location	AP-2		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 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)	52.09	**Total Depth (ft-bmp)**	59.05	**Water Column(ft)**	6.96	**Gallons in Well**	1.13
MP Elevation	796.55	**Pump Intake (ft-bmp)**	54	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	14:30	**Well Volumes Purged**	1.40	**Sample ID**	YAT-YGWA-3I	**Sampled by**	Kim Lapszynski
Purge Start	13:39	**Gallons Purged**	1.59	**Replicate/ Code No.**		**Color**	Clear
Purge End	14:29						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
13:39:00	00:00	150	52.09	7.46	211.54	0.74	7.29	27.50	65.47
13:44:00	05:00	150	52.4	7.43	266.56	0.42	5.50	20.30	83.54
13:49:00	10:00	150	52.54	7.37	291.48	0.34	3.62	19.20	86.77
13:54:00	15:00	150	52.67	7.35	291.08	0.41	2.07	18.80	15.19
13:59:00	20:00	150	52.76	7.36	275.80	0.31	1.52	18.70	-48.30
14:04:00	25:00	100	52.74	7.38	259.06	0.14	1.20	18.60	-72.17
14:09:00	30:00	100	52.68	7.39	252.09	0.19	1.09	20.30	-79.51
14:14:00	35:00	100	52.66	7.42	245.56	0.24	0.95	20.10	-84.80
14:19:00	40:00	100	52.65	7.45	233.23	0.17	0.70	19.90	-93.96
14:24:00	45:00	100	52.65	7.46	226.08	0.10	0.56	19.90	-98.73
14:29:00	50:00	100	52.65	7.47	223.09	0.19	0.55	19.70	-100.82

Constituent Sampled	Container	Number	Preservative
App III/IV Metals	250 mL Plastic	1	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

ARCADIS Design & Consultancy for natural and built assets

Updated : 8/20/2024 8:01:32 PM +00:00

Project Number	30143608	**Well ID**	YGWA-2I			**Date**	8/20/2024
Project Location	AP-2		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 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)	45.85	**Total Depth (ft-bmp)**	63.75	**Water Column(ft)**	17.90	**Gallons in Well**	2.91
MP Elevation	866.25	**Pump Intake (ft-bmp)**	60	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	15:15	**Well Volumes Purged**	0.35	**Sample ID**	YAT-YGWA-2I	**Sampled by**	David Prouty
Purge Start	14:23	**Gallons Purged**	1.01	**Replicate/ Code No.**	YAT-UGRD-FB-1	**Color**	Clear
Purge End	15:47						

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)
14:23:00	00:00	100	45.85	6.59	252.65		7.01	26.80	215.19
14:23:00	00:21	100	46.3	6.59	238.94	1.93	6.88	25.80	216.82
14:28:00	05:21	100	46.71	6.53	223.54	1.39	4.73	21.70	99.84
14:33:00	10:21	80	47.05	6.62	220.34	0.90	2.54	20.80	91.66
14:38:00	15:21	80	47.45	6.65	219.70	1.47	1.51	20.40	158.85
14:43:00	20:21	80	47.86	6.67	220.63	0.74	1.22	20.90	178.36
14:48:00	25:21	80	47.96	6.72	220.01	1.28	1.10	21.50	192.75
14:53:00	30:21	80	48.3	6.78	218.40	1.71	1.01	21.40	189.08
14:58:00	35:21	80	48.5	6.83	217.17	0.61	1.02	21.30	171.59
15:03:00	40:21	80	48.66	6.87	218.02	0.62	1.03	22.20	191.40
15:08:00	45:21	80	48.75	6.91	219.01	1.47	0.98	22.80	188.23

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

Comments: None

Well Casing Volume Conversion

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

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Well Completion: _____ Key Number To Well: _____

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 8/20/2024 8:28:31 PM +00:00

Project Number	30143622	**Well ID**	YGWA-18I			**Date**	8/20/2024
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 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)	24.73	**Total Depth (ft-bmp)**	79.97	**Water Column(ft)**	55.24	**Gallons in Well**	8.98
MP Elevation	790.57	**Pump Intake (ft-bmp)**	75	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	14:22	**Well Volumes Purged**	0.09	**Sample ID**	YGWA-18I	**Sampled by**	Jessica Ware
Purge Start	13:59	**Gallons Purged**	0.79	**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	150	24.73	7.03	108.21	0.88	7.09	21.70	199.15
14:04:00	05:00	150	24.82	5.88	111.35	0.76	4.30	19.50	208.24
14:09:00	10:00	150	24.94	5.75	110.38	0.54	4.17	18.70	217.83
14:14:00	15:00	150	24.89	5.74	110.06	0.66	4.22	18.80	212.32
14:19:00	20:00	150	24.97	5.75	110.27	0.48	4.20	18.70	211.68

Constituent Sampled	Container	Number	Preservative
Anions	250 mL Plastic	1	None
Metals	250 mL Plastic	1	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 : 8/20/2024 8:36:30 PM +00:00

Project Number	30113037	**Well ID**	YGWA-14S			**Date**	8/20/2024
Project Location	AP-2		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 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)	17.11	**Total Depth (ft-bmp)**	34.96	**Water Column(ft)**	17.85	**Gallons in Well**	2.90
MP Elevation	748.76	**Pump Intake (ft-bmp)**	30	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	16:18	**Well Volumes Purged**	0.36	**Sample ID**	YAT-YGWA-14S	**Sampled by**	Kim Lapszynski
Purge Start	15:56	**Gallons Purged**	1.06	**Replicate/ Code No.**		**Color**	Clear
Purge End	16:16						

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)
15:56:00	00:00	200	17.11	6.65	79.67	0.67	8.17	27.70	176.48
16:01:00	05:00	200	17.64	5.59	65.11	0.20	7.52	21.30	179.17
16:06:00	10:00	200	17.65	5.51	63.01	0.34	7.35	21.00	182.28
16:11:00	15:00	200	17.65	5.49	62.72	0.36	7.30	20.60	184.43
16:16:00	20:00	200	17.65	5.49	62.84	0.26	7.25	20.50	187.24

Constituent Sampled	Container	Number	Preservative
App III/IV Metals	250 mL Plastic	1	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 : 8/20/2024 10:02:39 PM +00:00

Project Number	30113037	**Well ID**	YGWA-30I			**Date**	8/20/2024
Project Location	AP-2		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 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)	43.25	**Total Depth (ft-bmp)**	59.48	**Water Column(ft)**	16.23	**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	17:37	**Well Volumes Purged**	0.30	**Sample ID**	YAT-YGWA-30I	**Sampled by**	Kim Lapszynski
Purge Start	17:15	**Gallons Purged**	0.79	**Replicate/ Code No.**		**Color**	Clear
Purge End	17:35						

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)
17:15:00	00:00	150	43.25	6.79	38.00	0.52	8.25	29.70	171.99
17:20:00	05:00	150	43.26	6.13	39.84	0.26	8.15	22.50	175.78
17:25:00	10:00	150	43.27	6.09	40.66	0.24	7.85	21.80	174.68
17:30:00	15:00	150	43.27	6.07	40.72	0.17	7.75	21.60	175.61
17:35:00	20:00	150	43.28	6.07	40.97	0.16	7.81	21.30	175.69

Constituent Sampled	Container	Number	Preservative
App III/IV Metals	250 mL Plastic	1	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

ARCADIS Design & Consultancy for natural and built assets

Updated : 8/20/2024 10:17:49 PM +00:00

Project Number	30143608	**Well ID**	YGWA-47			**Date**	8/20/2024
Project Location	AP-1		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 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)	34.92	**Total Depth (ft-bmp)**	59.19	**Water Column(ft)**	24.27	**Gallons in Well**	3.94
MP Elevation	758.22	**Pump Intake (ft-bmp)**	54	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	17:35	**Well Volumes Purged**	0.18	**Sample ID**	YGWA-47	**Sampled by**	David Prouty
Purge Start	17:02	**Gallons Purged**	0.69	**Replicate/ Code No.**		**Color**	Clear
Purge End	18:08						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
17:02:00	00:00	100	34.92	6.28	205.75	0.93	7.14	25.60	175.70
17:07:00	05:00	100	35.15	5.59	213.74	0.84	3.88	22.00	215.73
17:13:00	11:11	100	35.2	5.48	218.25	0.42	2.76	21.40	229.53
17:18:00	16:11	100	35.2	5.48	218.87	0.29	2.53	21.30	230.81
17:23:00	21:11	100	35.2	5.49	219.21	0.34	2.45	21.20	233.75
17:28:00	26:11	100	35.2	5.49	218.49	0.17	2.42	20.90	236.11

Constituent Sampled	Container	Number	Preservative
Cl, SO4, F	250 mL Plastic	1	None
Metals	250 mL Plastic	1	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 : 8/21/2024 11:00:08 AM +00:00

Project Number	30143623	**Well ID**	YGWA-21I			**Date**	8/20/2024
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 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)	31.93	**Total Depth (ft-bmp)**	79.9	**Water Column(ft)**	47.97	**Gallons in Well**	7.79
MP Elevation	783.7	**Pump Intake (ft-bmp)**	75	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	16:40	**Well Volumes Purged**		**Sample ID**	YGWA-21I	**Sampled by**	Perry Studebaker
Purge Start	16:07	**Gallons Purged**		**Replicate/ Code No.**		**Color**	Clear
Purge End	17:40						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (cm)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
16:07:00	00:00	150	34.29	6.64	192.33	4.18	0.61	21.40	-80.47
16:12:00	05:00	150	34.98	6.60	187.26	3.95	0.36	21.00	-101.90
16:17:00	10:00	100	35.71	6.52	177.95	2.66	0.29	21.40	-103.56
16:22:00	15:00	100	36.05	6.52	173.38	2.32	0.31	22.60	-102.44
16:27:00	20:00	50	36.55	6.57	170.60	2.18	0.30	22.70	-105.41
16:32:00	25:00	50	36.67	6.62	172.86	1.60	0.30	23.50	-106.72
16:37:00	30:00	50	36.78	6.67	175.31	1.38	0.33	24.80	-107.58

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

Comments: Pump rate decreased to 50ml due to drawdown (Geoff Gay approved)

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 : 8/21/2024 3:27:13 PM +00:00

Project Number	30143608	**Well ID**	YGWA-18S			**Date**	8/21/2024
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 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)	21.7	**Total Depth (ft-bmp)**	39.97	**Water Column(ft)**	18.27	**Gallons in Well**	2.97
MP Elevation	790.57	**Pump Intake (ft-bmp)**	35	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	09:45	**Well Volumes Purged**	0.36	**Sample ID**	YGWA-18S	**Sampled by**	David Prouty
Purge Start	08:56	**Gallons Purged**	1.06	**Replicate/ Code No.**	YAT-UGRD-FD-2	**Color**	Clear
Purge End	11:16						

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)
8:56:00	00:00	100	21.92	5.30	56.71	10.60	5.25	19.30	242.23
9:01:00	05:00	100	22.1	5.22	55.97	9.38	3.79	18.60	261.23
9:06:00	10:00	100	22.1	5.24	55.47	7.81	3.58	18.50	264.43
9:11:00	15:00	100	22.05	5.26	55.50	6.61	3.48	18.80	266.12
9:16:00	20:00	100	22.04	5.28	55.15	6.06	3.45	18.90	265.68
9:21:00	25:00	100	22.04	5.27	55.42	6.48	3.37	18.90	267.40
9:26:00	30:00	100	22.03	5.28	55.23	4.89	3.33	18.90	271.20
9:31:00	35:00	100	22.03	5.29	55.13	4.06	3.26	19.00	269.50
9:36:00	40:00	100	22.03	5.29	55.25	3.76	3.23	19.10	269.02

Constituent Sampled	Container	Number	Preservative
Cl, SO4, F	250 mL Plastic	1	None
Metals	250 mL Plastic	1	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 : 8/21/2024 5:27:41 PM +00:00

Project Number	30143608	**Well ID**	YGWA-39			**Date**	8/21/2024
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 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)	19.74	**Total Depth (ft-bmp)**	68.59	**Water Column(ft)**	48.85	**Gallons in Well**	7.94
MP Elevation	818.19	**Pump Intake (ft-bmp)**	63	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	12:40	**Well Volumes Purged**	0.08	**Sample ID**	YAT-YGWA-39	**Sampled by**	David Prouty
Purge Start	12:08	**Gallons Purged**	0.66	**Replicate/ Code No.**		**Color**	Clear
Purge End	13:19						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
12:08:00	00:00	100	19.95	7.32	368.33		6.67	27.20	181.76
12:13:00	05:00	100	19.85	6.00	374.33	1.93	0.86	20.80	58.37
12:18:00	10:00	100	19.92	5.95	376.50	0.47	0.39	20.40	78.83
12:23:00	15:00	100	19.92	5.94	377.38	0.30	0.31	20.30	77.19
12:28:00	20:00	100	19.92	5.94	377.29	0.21	0.25	20.80	81.88
12:33:00	25:00	100	19.92	5.94	378.26	1.90	0.26	21.30	88.94

Constituent Sampled	Container	Number	Preservative
Cl, SO4, F	250 mL Plastic	1	None
Metals	250 mL Plastic	1	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 : 8/21/2024 7:55:13 PM +00:00

Project Number	30143608	**Well ID**	YGWA-40			**Date**	8/21/2024
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 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)	24.97	**Total Depth (ft-bmp)**	48.23	**Water Column(ft)**	23.26	**Gallons in Well**	3.78
MP Elevation	815.73	**Pump Intake (ft-bmp)**	42	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	15:15	**Well Volumes Purged**	0.17	**Sample ID**	YAT-YGWA-40	**Sampled by**	David Prouty
Purge Start	14:44	**Gallons Purged**	0.66	**Replicate/ Code No.**		**Color**	Clear
Purge End	15:50						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
14:44:00	00:00	100	25.3	5.38	106.91	0.94	2.12	23.40	224.98
14:49:00	05:00	100	25.32	4.96	101.77	0.42	0.33	20.70	310.31
14:54:00	10:00	100	25.35	4.94	100.60	0.16	0.20	20.10	355.49
14:59:00	15:00	100	25.38	4.99	99.01	0.22	0.18	19.90	389.94
15:04:00	20:00	100	25.4	5.02	98.74	0.16	0.15	20.00	421.97
15:09:00	25:00	100	25.4	5.03	97.77	0.23	0.14	19.70	459.51

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

Comments: Collected EB YAT-UGRD-EB-1 at 1525

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 : 8/21/2024 8:06:04 PM +00:00

Project Number	30143622	**Well ID**	YGWA-5D			**Date**	8/20/2024
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	76 °F, Sunny, winds at 0 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)	20.28	**Total Depth (ft-bmp)**	129.13	**Water Column(ft)**	108.85	**Gallons in Well**	17.69
MP Elevation	784.53	**Pump Intake (ft-bmp)**	124	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	09:56	**Well Volumes Purged**	0.04	**Sample ID**	YAT-YGWA-5D	**Sampled by**	Jessica Ware
Purge Start	09:30	**Gallons Purged**	0.79	**Replicate/ Code No.**	YAT-UGRD-FB-2	**Color**	Clear
Purge End	09:56						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity ()	Turbidity ()	Dissolved Oxygen ()	Temperature	Redox ()

Constituent Sampled	Container	Number	Preservative
Anions	250 mL Plastic	1	None
Metals	250 mL Plastic	1	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 : 8/21/2024 8:06:05 PM +00:00

Project Number	30143622	**Well ID**	YGWA-17S			**Date**	8/20/2024
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**				
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)	13.58	**Total Depth (ft-bmp)**	39.85	**Water Column(ft)**	26.27	**Gallons in Well**	4.27
MP Elevation	783.05	**Pump Intake (ft-bmp)**	35	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	12:45	**Well Volumes Purged**	0.25	**Sample ID**	YGWA-17S	**Sampled by**	Jessica Ware
Purge Start	12:14	**Gallons Purged**	1.06	**Replicate/ Code No.**		**Color**	Clear
Purge End	12:44						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
12:14:00	00:00	100	13.58	5.92	101.71	2.96	4.40	21.70	45.62
12:19:00	05:00	175	13.98	5.45	88.41	0.39	2.26	19.70	79.87
12:24:00	10:00	175	14	5.46	88.65	0.40	2.25	19.50	91.69
12:29:00	15:00	175	13.97	5.49	94.90	0.56	2.21	19.10	99.06
12:34:00	20:00	175	14.02	5.49	95.04	0.64	2.11	18.90	101.70
12:39:00	25:00	175	14.02	5.50	95.20		2.07	18.90	107.24

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

Comments: Last turbidity reading at = 0.62NTU

Well Casing Volume Conversion

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

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Well Completion: _____ Key Number To Well: _____

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-1
Permit Number:	
Well ID:	YGWA-47
Person Gauging:	Jake Swanson
Date:	8/19/2024
Time:	09:13:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-17S
Person Gauging:	Jessica Ware
Date:	8/19/2024
Time:	10:13:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-18I
Person Gauging:	Jessica Ware
Date:	8/19/2024
Time:	10:21:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-18S
Person Gauging:	Jessica Ware
Date:	8/19/2024
Time:	10:23:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	YGWA-39
Person Gauging:	Jessica Ware
Date:	8/19/2024
Time:	11:09:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	YGWA-40
Person Gauging:	Jessica Ware
Date:	8/19/2024
Time:	11:51:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-14S
Person Gauging:	Jake Swanson
Date:	8/19/2024
Time:	11:54:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-30I
Person Gauging:	Jake Swanson
Date:	8/19/2024
Time:	12:09:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-2I
Person Gauging:	Jake Swanson
Date:	8/19/2024
Time:	12:09:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-1I
Person Gauging:	Jake Swanson
Date:	8/19/2024
Time:	12:41:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-1D
Person Gauging:	Jake Swanson
Date:	8/19/2024
Time:	12:42:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-20S
Person Gauging:	Jessica Ware
Date:	8/19/2024
Time:	14:11:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-21I
Person Gauging:	Jessica Ware
Date:	8/19/2024
Time:	14:17:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-5I
Person Gauging:	Jessica Ware
Date:	8/19/2024
Time:	14:30:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-5D
Person Gauging:	Jessica Ware
Date:	8/19/2024
Time:	14:31:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-4I
Person Gauging:	Jessica Ware
Date:	8/19/2024
Time:	14:38:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-3I
Person Gauging:	Jake Swanson
Date:	8/19/2024
Time:	14:55:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-3D
Person Gauging:	Jake Swanson
Date:	8/19/2024
Time:	14:57:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

November 2024
YGWC-50 and PZ-54D

Groundwater Sampling Form

Updated : 11/27/2024 3:53:42 PM +00:00

Project Number	30143608	**Well ID**	YGWC-50			**Date**	11/26/2024
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	61.7 degrees F and Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	27.98	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	5.2	**Total Depth (ft-bmp)**	39.28	**Water Column(ft)**	34.08	**Gallons in Well**	5.54
MP Elevation	729.78	**Pump Intake (ft-bmp)**	36	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	10:45	**Well Volumes Purged**	0.12	**Sample ID**	YAT-YGWC-50	**Sampled by**	David Prouty
Purge Start	10:13	**Gallons Purged**	0.66	**Replicate/ Code No.**	YAT-AMA-R6-FD-1, YAT-AMA-R6-FB-1	**Color**	Clear
Purge End	11:40						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (cm)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
10:13:00	00:00	100	5.47	5.06	2089.64	10.10	0.29	18.90	160.74
10:18:00	05:00	100	5.47	5.06	2066.34	7.66	0.26	18.80	146.54
10:23:00	10:00	100	5.47	5.07	2049.00	4.81	0.34	18.70	132.12
10:28:00	15:00	100	5.47	5.05	2016.02	4.77	0.27	18.70	134.91
10:33:00	20:00	100	5.45	5.04	1986.26	2.78	0.20	18.70	133.12
10:38:00	25:00	100	5.45	5.03	1926.60	2.73	0.16	18.70	141.73

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

Comments: Equipment blank YAT-AMA-R6-EB-1

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Field Instrumentation Calibration Form

Site Name: GPC Plant Yates

Date: 11/26/24

Calibrated By: David Prouty

Field Conditions: Cloudy 63 F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aqua Troll 600	693006
Turbidity Meter	HACH 2100Q	18040C066251

Calibration Standard Information

Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	~~4,490~~ 1413	460724	June 25	In Situ
pH (SU)	4.00	46F0044	June 26	In Situ
pH (SU)	7.00	46F0046	June 26	In Situ
pH (SU)	10.00	46F0114	June 26	In Situ
D.O. (%)	N/A			
ORP (mV)	228.0	46G0346	April 25	In Situ

Calibration

Time Start 835 Time Finish

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	~~4,490~~ 1413	1404.0	19.99	± 10% of standard	EPA 2023
pH (SU)	4.00	4.02	19.56	± 0.1	GWMP
pH (SU)	7.00	7.02	19.53	± 0.1	GWMP
pH (SU)	10.00	10.12	19.85	± 0.1	GWMP
D.O. (%)	N/A	107.4 %	17.94	± 10%	NA
ORP (mV)	228.0	226.7	20.20	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	600	596	± 10% of standard	EPA 2023
	100	99.0		
	20	20.6		
	10	10.4	18040C066251	

Calibration Check

Time Start Time Finish

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490			± 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% of standard	EPA 2023

Notes:

Groundwater Sampling Form

Updated : 12/3/2024 8:08:10 PM +00:00

Project Number	30143623	**Well ID**	PZ-54D			**Date**	11/7/2024
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	73.0 degrees F and Cloudy. The wind is blowing E/SE at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**		**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	89.35	**Total Depth (ft-bmp)**	137.06	**Water Column(ft)**	47.71	**Gallons in Well**	7.75
MP Elevation	795.56	**Pump Intake (ft-bmp)**	136	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	13:48	**Well Volumes Purged**	0.25	**Sample ID**	YAT-PZ-54D	**Sampled by**	Auguste Parrinello
Purge Start	11:03	**Gallons Purged**	1.93	**Replicate/ Code No.**		**Color**	Clear
Purge End	16:25						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
11:03:00	00:00	50	89.35	5.69	942.37		1.71	20.80	187.57
11:08:00	05:00	50	89.35	5.71	931.42		0.95	20.10	182.48
11:13:00	10:00	50	89.35	5.71	913.12		0.64	19.80	173.36
11:18:00	15:00	50	91.5	5.71	891.09	11.00	0.47	19.70	165.02
11:23:00	20:00	50	91.5	5.70	875.54		0.35	19.10	157.17
11:28:00	25:00	50	91.5	5.72	873.44		0.35	19.90	153.41
11:33:00	30:00	50	91.5	5.71	870.28		0.31	20.20	145.98
11:38:00	35:00	50	91.5	5.72	881.67		0.39	20.10	144.46
11:43:00	40:00	50	92.8	5.73	938.69	7.69	0.42	20.80	142.10
11:48:00	45:00	25	92.9	5.73	932.73	9.44	0.52	21.20	138.53
11:53:00	50:00	70	92.9	5.74	748.95	7.35	0.68	21.50	134.47
11:58:00	55:00	70	93.3	5.71	890.96	7.42	0.80	20.30	130.84
12:03:00	00:00	70	95	5.70	883.43	6.49	0.52	19.80	129.28
12:08:00	05:00	70	95.2	5.70	872.35	6.53	0.41	19.60	129.03
12:13:00	10:00	70	95.4	5.70	853.96	6.45	0.37	19.60	128.60
12:18:00	15:00	70	95.6	5.70	828.24	6.33	0.34	19.40	128.76
12:23:00	20:00	45	96.3	5.71	840.10	6.75	0.33	19.70	128.96
12:28:00	25:00	45	96.4	5.71	837.09	6.26	0.35	20.50	128.26
12:33:00	30:00	45	96.42	5.72	833.33	6.60	0.35	20.90	127.14
12:38:00	35:00	45	96.5	5.71	822.32	6.72	0.35	21.20	127.40
12:43:00	40:00	45	96.6	5.71	809.03	6.53	0.34	21.50	127.47
12:48:00	45:00	45	96.65	5.71	803.64	5.80	0.33	21.70	127.46
12:53:00	50:00	45	96.68	5.72	785.71	4.87	0.29	21.70	127.05
12:58:00	55:00	45	96.7	5.72	776.76	4.28	0.29	21.80	128.13
13:03:00	00:00	45	96.73	5.72	808.90	4.02	0.28	22.00	128.90
13:08:00	05:00	45	96.74	5.71	809.48	4.54	0.28	22.10	130.05

Groundwater Sampling Form

13:13:00	10:00	45	96.84	5.71	775.49	4.89	0.28	22.10	131.05
13:18:00	15:00	45	96.91	5.71	810.77	4.35	0.28	22.10	131.63
13:23:00	20:00	45	96.96	5.71	183.17	4.91	0.29	22.10	133.31
13:28:00	25:00	45	97.2	5.71	140.90	4.66	0.32	22.00	134.57
13:33:00	30:00	45	97.34	5.71	124.52	3.77	0.30	22.00	135.87
13:38:00	35:00	45	97.45	5.71	121.71	4.28	0.31	21.90	136.65
13:43:00	40:00	45	97.45	5.71	114.46	3.67	0.31	21.90	137.62

Constituent Sampled	Container	Number	Preservative
TDSRAD ChemMetalsChloride		5	

Comments: Probe conductivity probe malfunctioned during stabilization.

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: _____

Site Name: Plant Yates

Field Instrumentation Calibration Form

Calibrated By: Auguste Parrinello

Date: 11/21

Field Conditions: Overcast Cool.

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	~~747642~~ 1007373
Turbidity Meter	~~Gootech~~ HACH 2100Q	- 214060

Calibration Standard Information

Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	1,413			
pH (SU)	4.00			
pH (SU)	7.00			
pH (SU)	10.00			
D.O. (%)	N/A			
ORP (mV)	229.0			

Calibration

Time Start: Time Finish:

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	1,413	1,326.1	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.04	21.82	± 0.1	GWMP
pH (SU)	7.00	7.02	21.93	± 0.1	GWMP
pH (SU)	10.00	10.05	22.05	± 0.1	GWMP
D.O. (%)	N/A			± 10%	NA
ORP (mV)	240.0	233.1	21.99	± 10	EPA 2024

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	19	± 10% of standard	EPA 2023
	100	103		
	800	799		
	<0.10			

Calibration Check

Time Start: Time Finish:

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

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

Notes:

Appendix B

Well Installation Reports

GEORGIA POWER COMPANY PLANT YATES - AP-3/A/B/B' AND R6 LANDFILL

Groundwater Monitoring Well Installation Report (PZ-54D, PZ-55 and PZ-56D)

March 25, 2024

Georgia Power Company Plant Yates
AP-3/A/B/B' AND R6 LANDFILL

Groundwater Monitoring Well Installation Report
(PZ-54D, PZ-55 and PZ-56D)

March 25, 2024

Prepared By:
Arcadis U.S., Inc.
2839 Paces Ferry Road, Suite 900
Atlanta
Georgia 30339
Phone: 770 431 8666
Fax: 770 435 2666

Prepared For:
Georgia Power Company
Newnan, Georgia
Coweta County

David Prouty, P.G.
Project Geologist

Geoff Gay, P.E.
Technical Expert, Vice President

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ARCADIS

Professional Engineer Certification

I certify that I am a qualified groundwater scientist who has received a baccalaureate or post-graduate degree in the natural sciences or engineering and have sufficient training and experience in groundwater hydrology and related fields as demonstrated by state registration and completion of accredited university courses that enable me to make sound professional judgments regarding groundwater monitoring and contaminant fate and transport. I hereby certify that I am a qualified groundwater scientist, in accordance with the Georgia Rules of Solid Waste Management 391-3-4-.01, and 40 CFR Part 258.50(g). I further certify that this report was prepared by me or by a subordinate working under my direction.

3.25.24

J. Geoffrey Gay, P.E.
Technical Expert, Vice President
Georgia Registration No. 27801

Date

1 Introduction

Plant Yates (the Site) is located at 708 Dyer Road on the east bank of the Chattahoochee River in Coweta County, Georgia near the Coweta and Carroll County line. The Site is approximately eight miles northwest of the city of Newnan and 13 miles southeast of the city of Carrollton. Plant Yates, once a coal-fired power generation facility converted to natural gas combustion turbines, occupies approximately 2,400 acres.

The objective of this report is to document the installation of a nested pair of deep bedrock groundwater monitoring wells (PZ-54D and PZ-56D) in the vicinity of YAMW-3 and a monitoring well (PZ-55) to the northwest of this location.

Figure 1 depicts the configuration of ash ponds AP-A, AP-B, AP-B', AP-3, and the R6 CCR Landfill and the location of the monitoring wells. PZ-55 was installed December 16, 2023; PZ-54D and PZ-56D were installed January 22, 2024. Well construction activities were performed in general accordance with the standards described in the RCRA Technical Enforcement Guidance Document (1986), the Georgia Water Wells Standards Act of 1985, and USEPA Region IV Science and Ecosystem Support Division Design and Installation of Monitoring Wells guidance SESDGUID-101-R2 (USEPA 2018).

2 Drilling and Well Installation

The groundwater monitoring system is designed and installed according to accepted industry standards and following guidelines within the Manual for Groundwater Monitoring (GA EPD 1991). The location and depths of the monitoring wells were selected based on the characterization of site-specific hydrogeologic conditions by a qualified professional engineer and geologist. The installation date, location, elevation, screen interval, and designation for PZ-54D, PZ-55 and PZ-56D are provided in the following sections. **Table 1** provides a summary of well construction.

2.1 Drilling Method

The initial boreholes (BH-54D and PZ-55) for the monitoring wells were drilled by Betts Drilling, which had a current and valid bond with the Water Wells Standards Advisory Council for the state of Georgia at the time of drilling (**Appendix A**).

The monitoring well installations were performed under the oversight and direction of a Georgia Registered Professional Geologist with Arcadis. Borehole advancement drilling was completed using rotosonic drilling techniques. The drilling equipment consisted of a 150CC compact track mounted rotasonic drill rig equipped with 4-inch sonic core rods with a 6-inch outer-casing sleeve. A 7-inch outer casing was socketed into bedrock at BH-54D to keep the borehole open for geophysical testing along with packer testing and sampling of select water producing fracture zones. During the drilling, continuous core samples were logged in the field for lithologic properties. Boring and Well Construction logs are provided in **Appendix B**.

2.2 Screened Intervals

Monitoring well PZ-55 was screened in the upper fractured bedrock transition zone and is constructed with ten feet of U-Pack® well screen placed at the interval 55-65 feet below ground surface (bgs). The screened interval of PZ-55 generally coincides with the elevation of that for YAMW-3. Monitoring wells PZ-54D and PZ-56D are both screened in the bedrock zone. The initial borehole (BH-54D) was advanced to 200 feet bgs where the following downhole geophysical probes were used to collect data: 1) fluid temperature/resistivity probe; 2) three-arm caliper probe; 3) acoustic televiewer probe; 4) optical televiewer probe; and 5) vertical flow/heat pulse flow probe. Intervals for screening were selected following review of the geophysical data collected by Arcadis. The borehole geophysical log is included in **Appendix B**.

Monitoring well PZ-56D is constructed with ten feet of standard 1-inch machine slotted well screen placed within the interval 185-195 feet bgs. The annular space between PZ-56D and the shallower PZ-54D was backfilled up to 137.4 feet bgs with 3/8-inch bentonite chips that were poured and allowed to hydrate overnight. Monitoring well PZ-54D is constructed with ten feet of U-Pack® well screen placed at the interval 124-134 feet bgs. The top of the screened intervals for PZ-54D and PZ-56D are 36.1 feet and 97.1 feet below the bottom of the screened interval of YAMW-3, respectively.

2.3 Well Construction Materials

Each monitoring well was designed and constructed to: (1) allow sufficient groundwater flow to the well for sampling; (2) minimize the passage of formation materials (turbidity) into the wells; and (3) ensure sufficient structural integrity to prevent collapse of the well.

PZ-56D is constructed of 1-inch diameter schedule 40 PVC casing affixed to a 1-inch diameter machine-slotted 10-foot PVC screen. PZ-55 and PZ-54D are constructed with a 2-inch diameter Schedule 40 PVC casing affixed to a dual-wall slotted 10-foot U-Pack® PVC screen. The U-Pack® well screens consist of a 3-inch diameter outer PVC well screen and a 2-inch centralized inner PVC well screen in one integrated unit.

Factory slotted 0.010-inch screens were used. The construction materials are ink-free, National Science Foundation (NSF) approved, and do not contain glues or solvents. Casing and screen sections are flush-threaded (ASTM-F-480).

2.3.1 Filter Pack

Following placement of the well screen and casing, the annular space adjacent to the well screen was filled with Southern Products & Silica Co. filter pack sand size GP #2 by hand pouring while tagging depth. This size sand is an approximately 7-35 sieve range, well-rounded quartz (silica) sand. Filter pack material was placed within the void space of the U-Pack® well screen and the annular space outside of the well screen extended approximately two feet above the top of the well screen. The depth to the top of filter pack was measured and recorded in the well construction log provided in **Appendix B**.

After placing the filter pack and prior to installing the annular seal, the well was pumped for at least 30 minutes to ensure proper settlement of the filter pack. Prior to installing the annular seal, the depth to the filter pack was remeasured to ensure a minimum of two feet was present above the screen.

2.3.2 Annular Seal

The annular seal for PZ-55 was composed of approximately 2 feet of hydrated bentonite chips placed on top of the filter pack by slowly pouring the material down the borehole and tamping it into place with a tremie pipe. Approximately 28.5 feet of 3/8" Baroid HOLEPLUG® bentonite chips were placed above the bentonite pellet followed by a 2-hour hydration period.

An annular seal composed of approximately 45.4 feet of 3/8" Baroid HOLEPLUG® bentonite chips was placed on top of the filter pack above PZ-56D and below PZ-54D by slowly pouring the material down the borehole and tamping into place with a tremie pipe. The bentonite was hydrated for 16 hours using formation water present and allowed to cure prior to installing PZ-54D. Approximately 4 feet of bentonite pellets followed by 93 feet of bentonite chips were placed within the annular space above the two wells and allowed to hydrate using formation water.

Following hydration of the bentonite for each of the wells installed, the remaining annular space was tremie-grouted with a 30% solids bentonite grout (AQUAGARD®). The monitoring well surface completion consists of a locked, aluminum protective casing, a four-foot by four-foot by four-inch concrete pad, and four surface protection bollards.

2.3.3 Cap and Protective Casing

The well risers were fitted with a locking cap and a lockable cover. A one-quarter inch vent hole in the PVC riser pipes provides an avenue for the escape of gas. The protective cap guards the casing from damage, and the locking cap serves as a security device to prevent well tampering. Bollards were installed around the four corners of the concrete pad to protect the well.

A weep hole was drilled in the outer protective casing near the bottom above the concrete pad. Pea gravel was placed inside the protective casing between the riser pipe and the outer casing. The well is marked with the proper well identification number on the stand-up casing.

3 Well Development

Monitoring wells PZ-55 and PZ-54D were initially developed on January 29, 2024 using a combination of surging and pumping with a Mega-Monsoon® submersible pump. The flowrate of the pump exceeded the capacity of the wells which were pumped dry. The water level in PZ-54D did not recover after purging dry twice. An additional attempt to redevelop the well using a drill/pump rig and potable water addition is being planned in an attempt to dislodge any fine rock flour that may be plugging the small fractures and/or filter pack. PZ-55 was surged and pumped dry three times. On February 15, 2024, a 5/8-inch diameter Solinst Model 408 Double Valve Pump was used to continue pumping on PZ-55. Turbidity, pH, temperature, and conductivity measurements ensured that the well was fully developed. Final turbidity measurements following development were less than 10 NTUs.

A Waterra pump was used to surge and pump PZ-56D on January 29, 2024. The well was pumped dry four times over a five-hour period. The water level is PZ-56D recovered when gauged on February 2, 2024 following the development activities. While the parameters did not stabilize, and turbidity less than 10 NTUs was not achieved given the agitation of the water column using the Waterra pump, it is believed that the 5/8-inch Double Valve Pump could be used to achieve the adequate stabilization and turbidity should sampling of this well be required. Well development notes and/or logs are included in **Appendix B**.

4 Survey

The monitoring well locations and top of casing (TOC) elevations were surveyed by Arcadis on January 29, 2024 using a Leica GS16 Global Positioning System (GPS). Horizontal survey locations are relative to the Georgia State Plane Coordinate System, West Zone, NAD83, US Survey Feet. All horizontal locations meet or exceed an accuracy of 0.50 foot. Vertical elevations are referenced to NAVD1988, US Survey Feet and meet an accuracy standard of 0.01 foot. A detailed survey report is included in **Appendix C.**

5 References

Arcadis 2024. Plant Yates AP-3, A, B, B', and R6 CCR Landfill 2023 Annual Groundwater Monitoring and Corrective Action Report, January 31, 2024.

Georgia Environmental Protection Division, Georgia Department of Natural Resources. Manual for Groundwater Monitoring, September 1991.

United States Environmental Protection Agency (USEPA), Science and Ecosystem Support Division (SESD). Design and Installation of Monitoring Wells SESDGUID-101-R2, January 16, 2018.

Table

Table 1 - Well Construction Data
Georgia Power Company
Plant Yates - AP-3/A,B,B' and R6 CCR Landfill
Newnan, Georgia

Well ID	Installation Date	Northing	Easting	Ground Elevation	Top of Casing (TOC) Elevation	Top of Screen Elevation	Bottom of Screen Elevation	Total Depth (ft bTOC)
PZ-54D	1/22/2024	1256904.08	2073369.06	792.5	795.56	668.50	658.50	137.36
PZ-55	12/16/2023	1257131.73	2073193.74	771.3	774.02	716.30	706.30	68.02
PZ-56D	1/22/2024	1256904.08	2073369.06	792.5	795.56	607.50	597.50	198.36

Notes:

Elevation in U.S. Survey Feet (NAVD88)

Northing and Easting Georgia State Plane West, NAD83

Figures

84°54'20"W 84°54'15"W 84°54'10"W 84°54'5"W 84°54'0"W 84°53'55"W 84°53'50"W 84°53'45"W 84°53'40"W 84°53'35"W 84°53'30"W 84°53'25"W 84°53'20"W 84°53'15"W 84°53'10"W 84°53'5"W 84°53'0"W 84°52'55"W 84°52'50"W 84°52'45"W 84°52'40"W

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

YGWA-6S
PZ-06D
YGWA-6I
PZ-48
YGWC-49
FORMER ASH POND A
YGWC-24SB
PZ-24IB
ASH POND 2
YAMW-1
PZ-35
YGWC-36A
ASH POND B
YGWC-50
R6 ASH DISPOSAL AREA
ASH POND B'
PZ-51
YGWC-43
YGWA-17S
PZ-55
PZ-54D
PZ-56D
YAMW-3
YGWC-42
YAMW-2
YGWA-18S
YGWA-18I
ASH POND 3
PZ-37
PZ-37D
PZ-52D
PZ-53D
YGWC-23S
YAMW-4
YGWC-41
YAMW-5
YGWC-38
ASH MANAGEMENT AREA
YGWA-40
YGWA-39
YGWA-21I
YGWA-20S
YGWA-4I
PZ-04S
PZ-05S
YGWA-5D
YGWA-5I

LEGEND

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

NOTES:
1. PZ-55 WAS INSTALLED ON 12/16/2023.
2. PZ-54D AND PZ-55D WERE INSTALLED ON 1/22/2024.
3. SURVEY COMPLETED 1/29/2024.
4. AERIAL IMAGE SOURCES: JULY 17, 2023 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2021 IMAGERY.

0 350 700 1,400
GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

Georgia Power

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

WELL LOCATION MAP

ARCADIS

FIGURE
1

Appendix A

Well Driller Performance Bond

GA Water Well Contractor License # 467

Bond Number: 106717740

Performance Bond For Water Well Contractors

Name of Water Well Contractor TONY BETTS d/b/a - DBA BETTS ENVIRONMENTAL RECOVERY, AND BLAKE CABIT, MALCOM SANDERS, /

Know All Men By These Presents

That we **TONY BETTS** and DBA BETTS ENVIRONMENTAL RECOVERY, AND BLAKE CABIT, MALCOM SANDERS, AND RYAN MCCORMACK any and all employees, officers and partners (collectively hereinafter, **Principal**), and we **Travelers Casualty and Surety Company of America**, duly organized under the laws of the State of **CONNECTICUT** (hereinafter, **Surety**), are held and firmly bound unto the Director of the Environmental Protection Division, Department of Natural Resources, State of Georgia (**Director**) and his or her successor or successors in office, as **Obligee**, in the full sum of **THIRTY THOUSAND DOLLARS ($30,000.00)** for the payment of which will and truly to be made, the Principal and Surety bind ourselves, our heirs, administrators, successors and assigns, jointly and severally, by these presents.

WHEREAS, the Water Well Standards Act of 1985 (O.C.G.A. §§ 12-5-120 *et seq.*) (the Act) requires that a Water Well Contractor, as that term is defined by the Act, have a performance bond with the Director to ensure compliance with the Act; and WHEREAS the above bound Principal is subject to the terms and provisions of said Act.

NOW, THEREFORE, the conditions of this obligation are such that if the above bound Principal shall fully and faithfully perform the duties and in all things comply with the procedures and standards set forth in the Act as now and hereafter amended, and the rules and regulations promulgated pursuant thereto, including but not limited to the correction of any violation of such procedures and standards upon discovery, irrespective of whether such discovery is made before completion of any well subject to this bond, then this obligation shall be void; otherwise it shall remain in full force and effect.

And Surety, for value received, agrees that no amendment to existing laws, rules or regulations, or adoption of new laws, rules or regulations shall in anyway discharge its obligation on this bond, and does hereby waive notice of any such amendment, adoption or modification.

This bond shall be effective from the **30** day of **June**, **2023** and shall continue in effect until June 30, 2025, unless sooner terminated by mutual agreement of Principal and Surety, provided that no such termination may be made unless sixty (60) days' prior written notice is made to the Director. In the event of such termination, the rights of the Director as Obligee and beneficiaries under this bond which arose prior to such termination shall continue.

IN WITNESS THEREOF the Principal and Surety have caused these present to be duly signed and sealed, this the **01** day of **April**, **2023**.

Principal
TONY BETTS

Print name: **Tony Betts**
Title: **CEO**

SEAL

Surety
Travelers Casualty and Surety Company of America

Print name: **Russell E. Vance**
Title: **Attorney-in-Fact**

HARTFORD, CONN.

Revised 03.17.2021

TRAVELERS	Travelers Casualty and Surety Company of America Travelers Casualty and Surety Company St. Paul Fire and Marine Insurance Company Farmington Casualty Company

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, St. Paul Fire and Marine Insurance Company, and Farmington Casualty Company are corporations duly organized under the laws of the State of Connecticut (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint **Russell E. Vance**, of **Hartford, CT**, their true and lawful Attorney(s)-in-Fact, to sign, execute, seal and acknowledge the following bond:

Surety Bond No.: 106717740 **Principal: TONY BETTS d/b/a - DBA BETTS ENVIRONMENTAL RECOVERY, AND BLAKE CABIT, MALCOM SANDERS, AND RYAN MCCORMACK**

IN WITNESS WHEREOF, the Companies have caused this instrument to be signed and their corporate seals to be hereto affixed, this **21st** day of **April, 2021.**

State of Connecticut

By: _____
Robert L. Raney, Senior Vice President

City of Hartford ss.

On this the **21st** day of **April, 2021**, before me personally appeared **Robert L. Raney**, who acknowledged himself to be the Senior Vice President of each of the Companies, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of said Companies by himself as a duly authorized officer.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

My Commission expires the **30th** day of **June, 2026**

_____
Anna P. Nowik, Notary Public

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of each of the Companies, which resolutions are now in full force and effect, reading as follows:

RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

FURTHER RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

FURTHER RESOLVED, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

FURTHER RESOLVED, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, **Kevin E. Hughes**, the undersigned, Assistant Secretary of each of the Companies, do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which remains in full force and effect.

Dated this 01 day of April, 2023.

_____
Kevin E. Hughes, Assistant Secretary

To verify the authenticity of this Power of Attorney, please call us at 1-800-421-3880.
Please refer to the above-named Attorney(s)-in-Fact and the details of the bond to which this Power of Attorney is attached.

Appendix B

Well Construction and Development Logs

Attachment A

BH-54D Borehole Log

Arcadis U.S., Inc.
2839 Paces Ferry Road, Suite 900
Atlanta, Georgia 30339

Geophysical Logging Services

WELL NAME: BH-54D **CLIENT:** Georgia Power

PROJECT LOCATION: Georgia Power Plant Yates, Nenman, GA

WELL COORDINATES:

PROJECTION:

SURFACE ELEVATION:

CASING STICK-UP: 0.2' AGS

DEPTH TO GROUNDWATER: 21.9' BGS

CASING DIAM.: 6.3" **LENGTH:** 50'

O.H. DIAM.: 6.0" **FROM:** 50' **TO:** 200'

DATE LOGGED: 01/05/2024

LOGGED BY: Arcadis

CASING TYPE: Steel Rods

TOTAL DEPTH: 200'

REMARKS:

Processing Notes:
• Declination: 4°58'W (-4.967° rotation to OTV and ATV)
• Engineering Column Notes:
Blue in Outercasing = Groundwater Drawdown
Light Blue in Outercasing = Water Column in PVC casing
Light Blue inside borehole = Water Column in Open Borehole

Logging Probes Used

- [ ] Natural Gamma [ ] SPR/SP
- [x] Fluid Temperature/Resistivity
- [ ] Induction Conductivity
- [ ] Normal Resistivity
- [x] 3-Arm Caliper
- [x] Acoustic Televiewer
- [x] Optical Televiewer
- [x] Heat Pulse Flow Meter
- [ ] Spinner Flow Meter
- [ ] Spectral Gamma
- [ ] Full Waveform Sonic
- [ ] Nuclear Magnetic Resonance
- [ ] Other: _____

Depth
1ft:20ft

Engineering

Temperature
15 deg C 20

FRes
0 Ohm-m 100

Temperature Gradient
-1.5 deg/ft 1.5

Fluid Resistivity Gradient
-50 ohm-m/ft 50

Ambient Flow
-0.04 gpm 0.04

Pumped Flow
-0.04 gpm 0.04

Static water level = 21.90' BGS
Pump set at 48' BGS
Test start at 16:45
Pumping at ~ 0.6 gpm
Test end at 17:25
Total volume pumped = ~24gal

Caliper
6 in 6.5

Amplitude (TN)
0 10000
0° 90° 180° 270° 0°

Optical Televiewer (TN)
0° 90° 180° 270° 0°

13.0
14.0
15.0
16.0
17.0
18.0
19.0
20.0
21.0
22.0
23.0
24.0
25.0
26.0
27.0
28.0
29.0
30.0
31.0
32.0
33.0
34.0
35.0
36.0
37.0

Drawdown:21.90-29.13
feet

38.0
39.0
40.0
41.0
42.0
43.0
44.0
45.0
46.0
47.0
48.0
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PUMP

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-0.02

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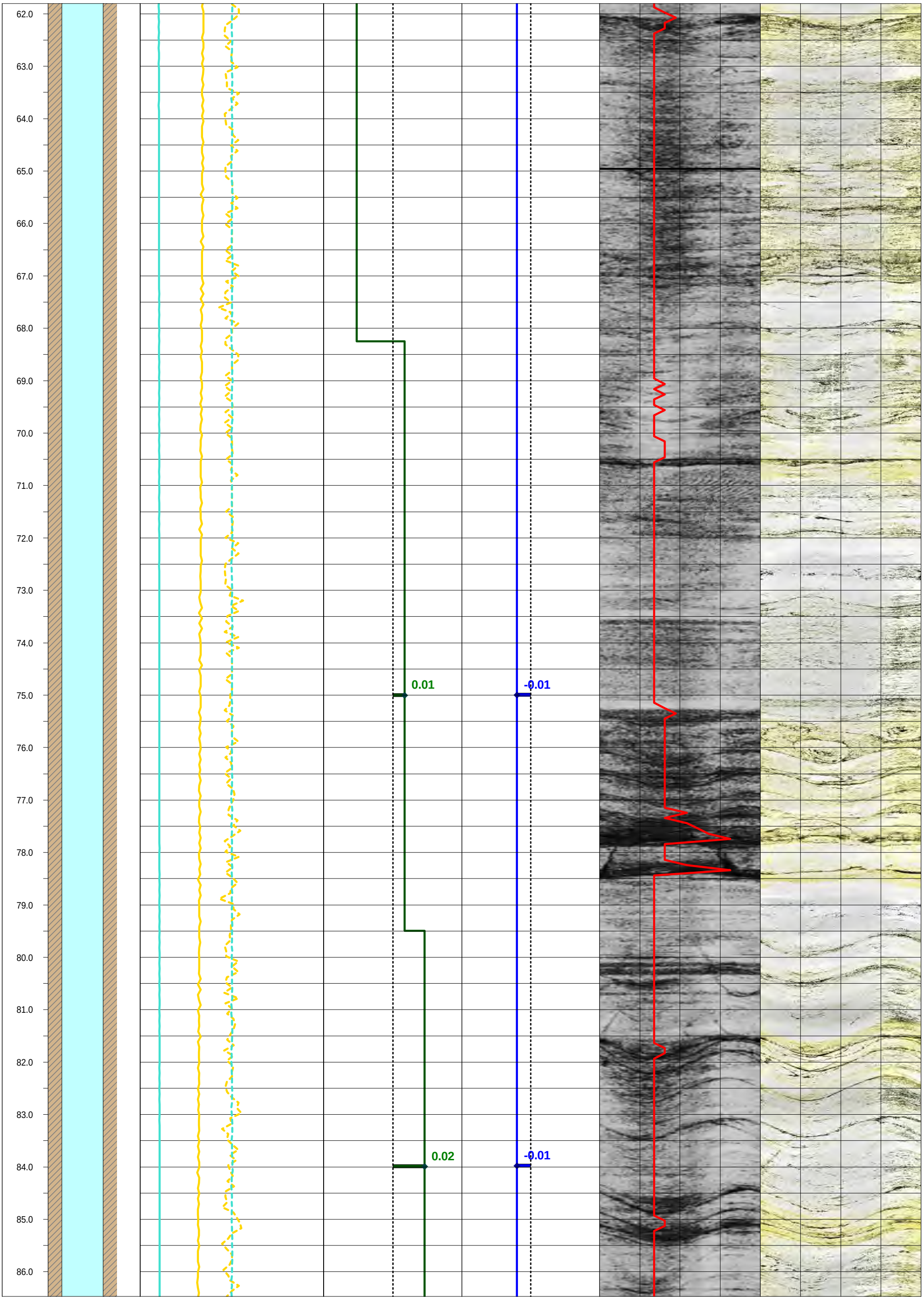
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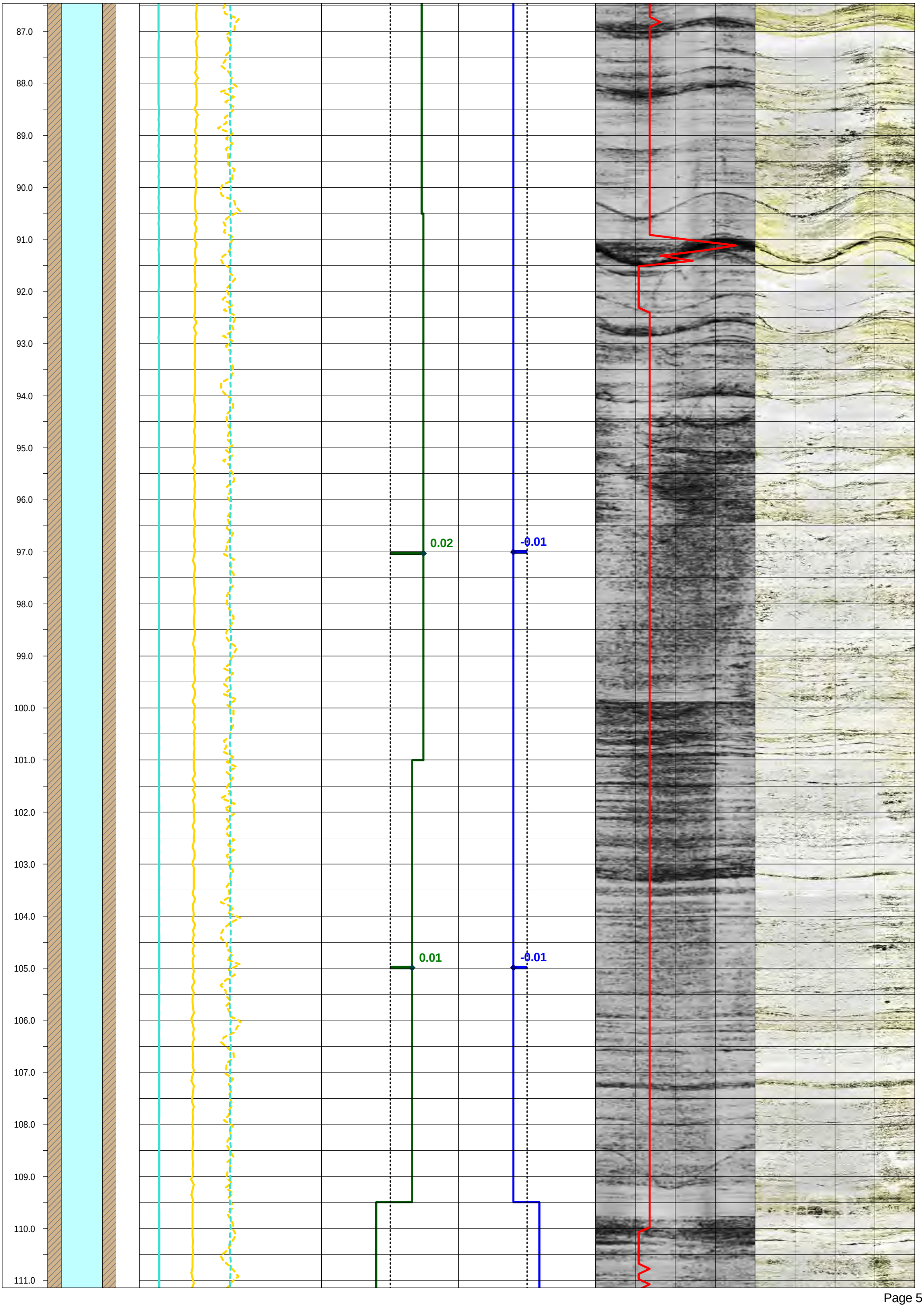
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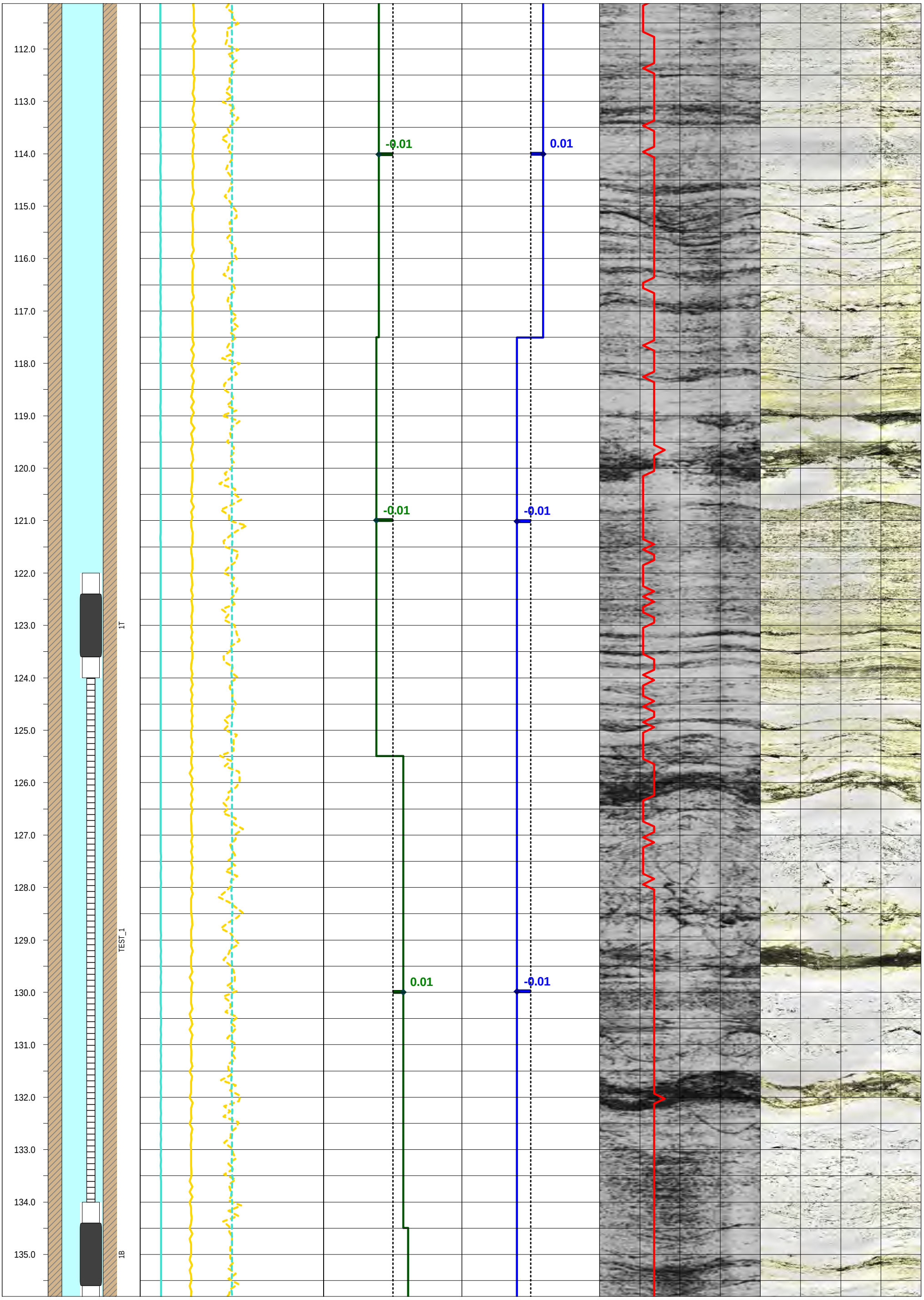
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132.0
133.0
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1T
TEST_1
1B
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-0.01
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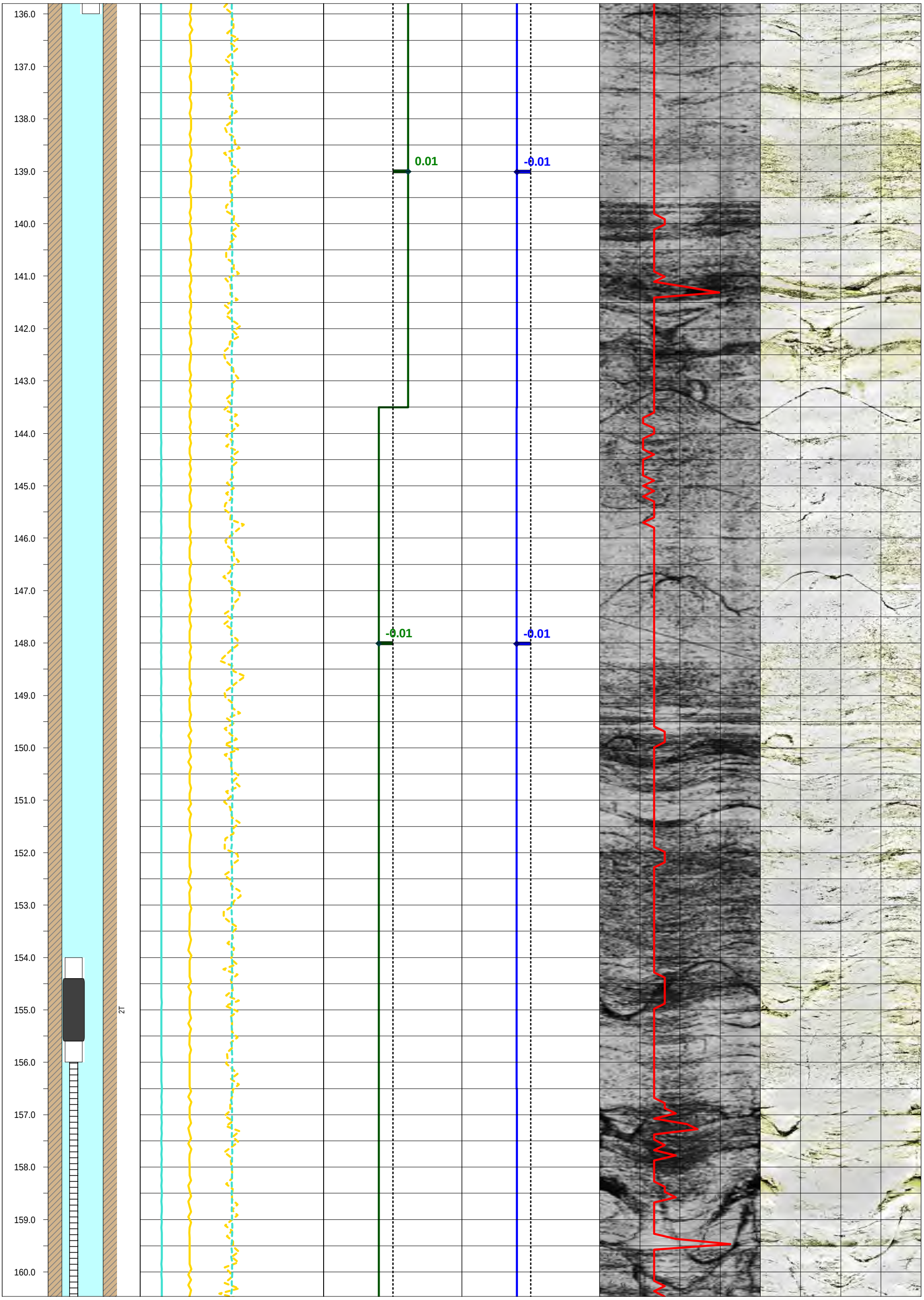
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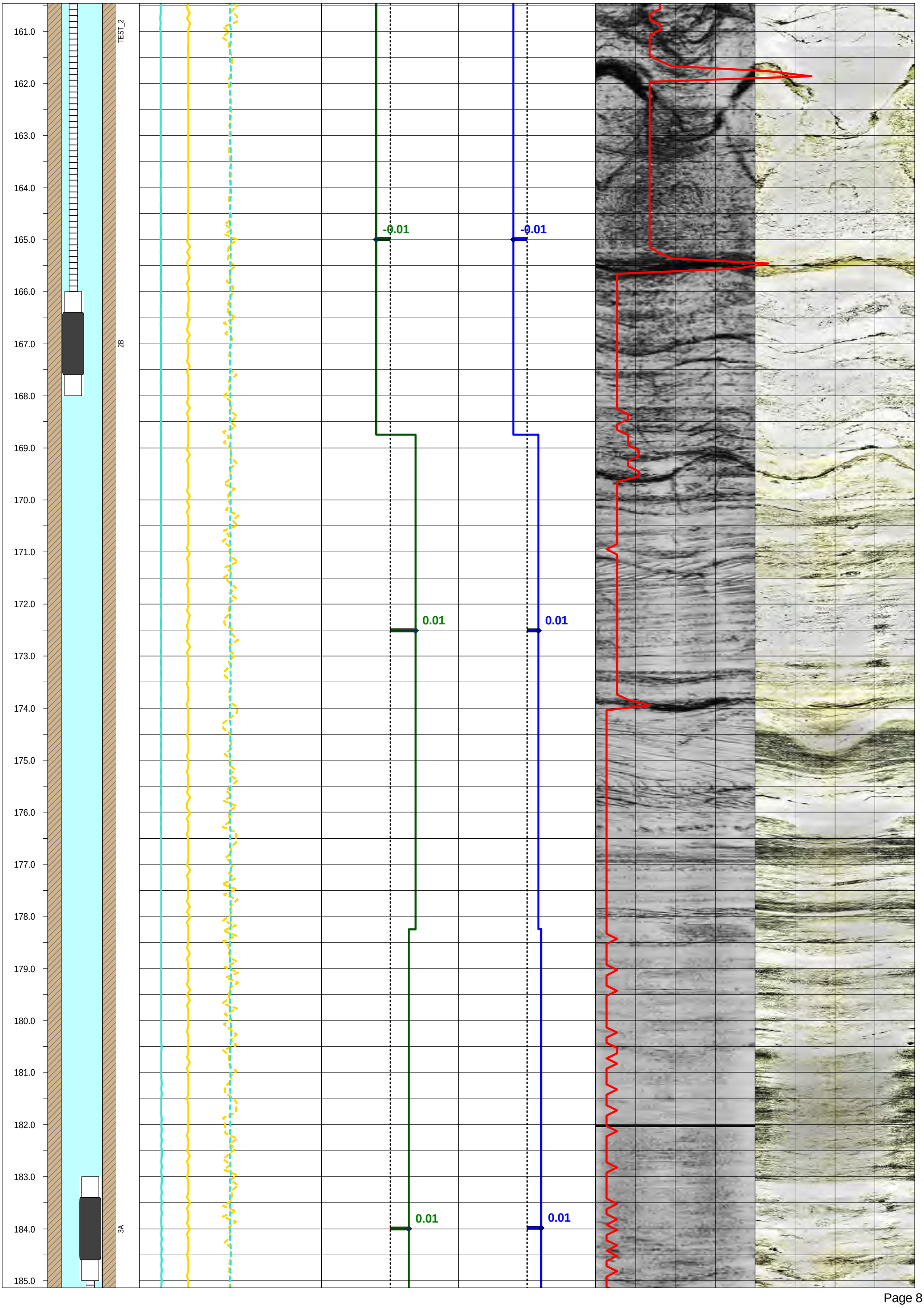
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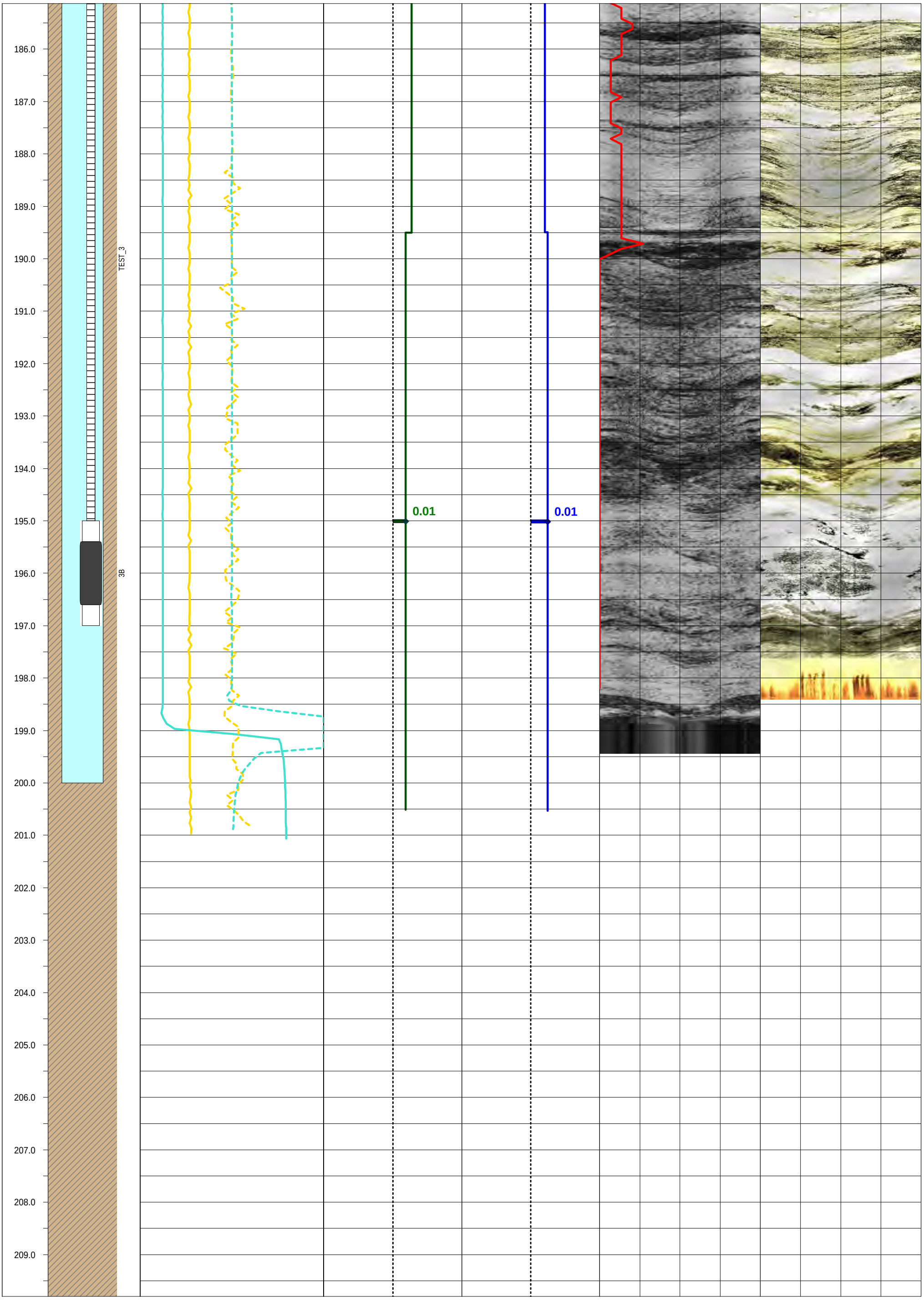
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209.0
TEST_3
3B
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0.01

Attachment B

BH-54D Structural Interpretation

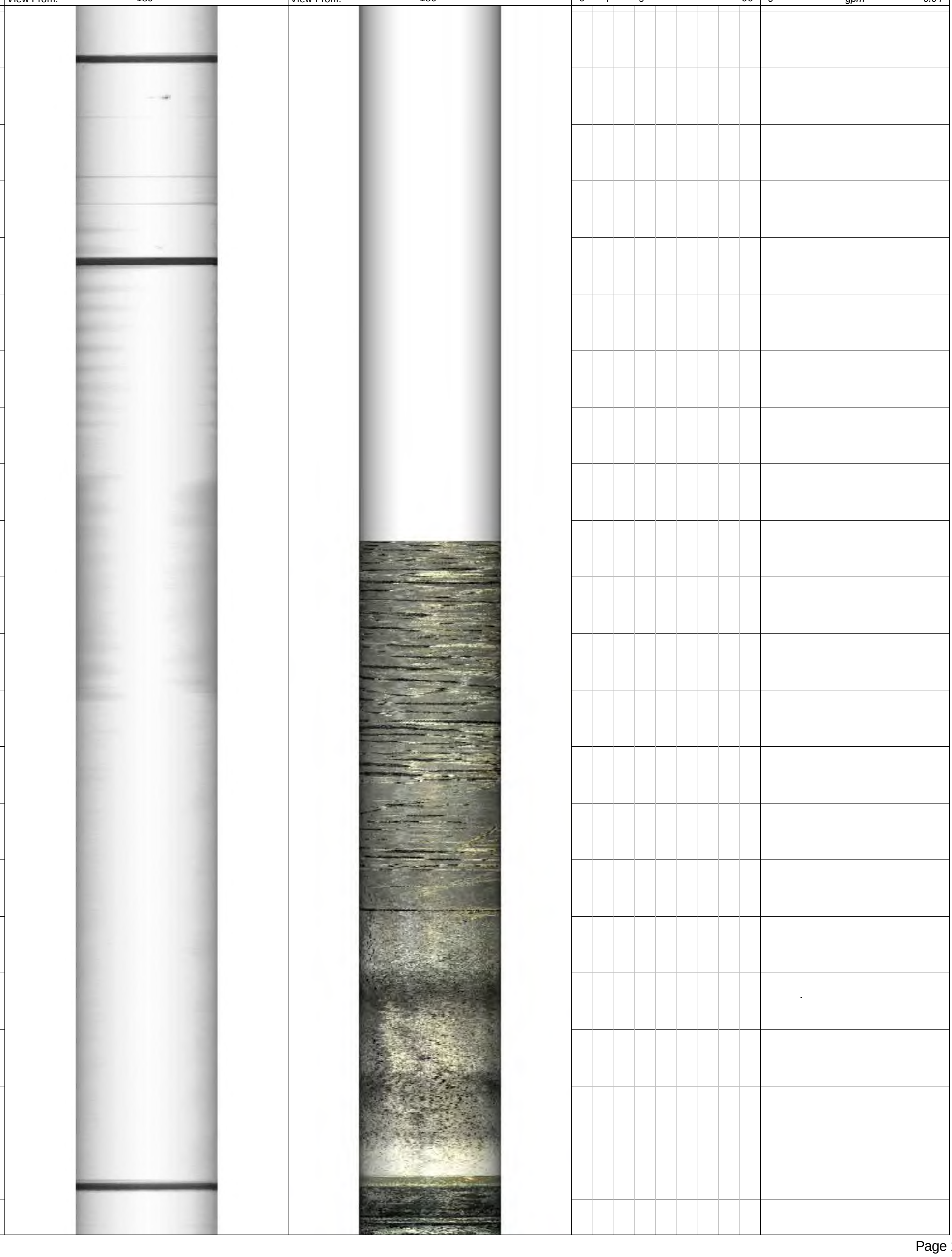
STRUCTURAL LOG INTERPRETATION

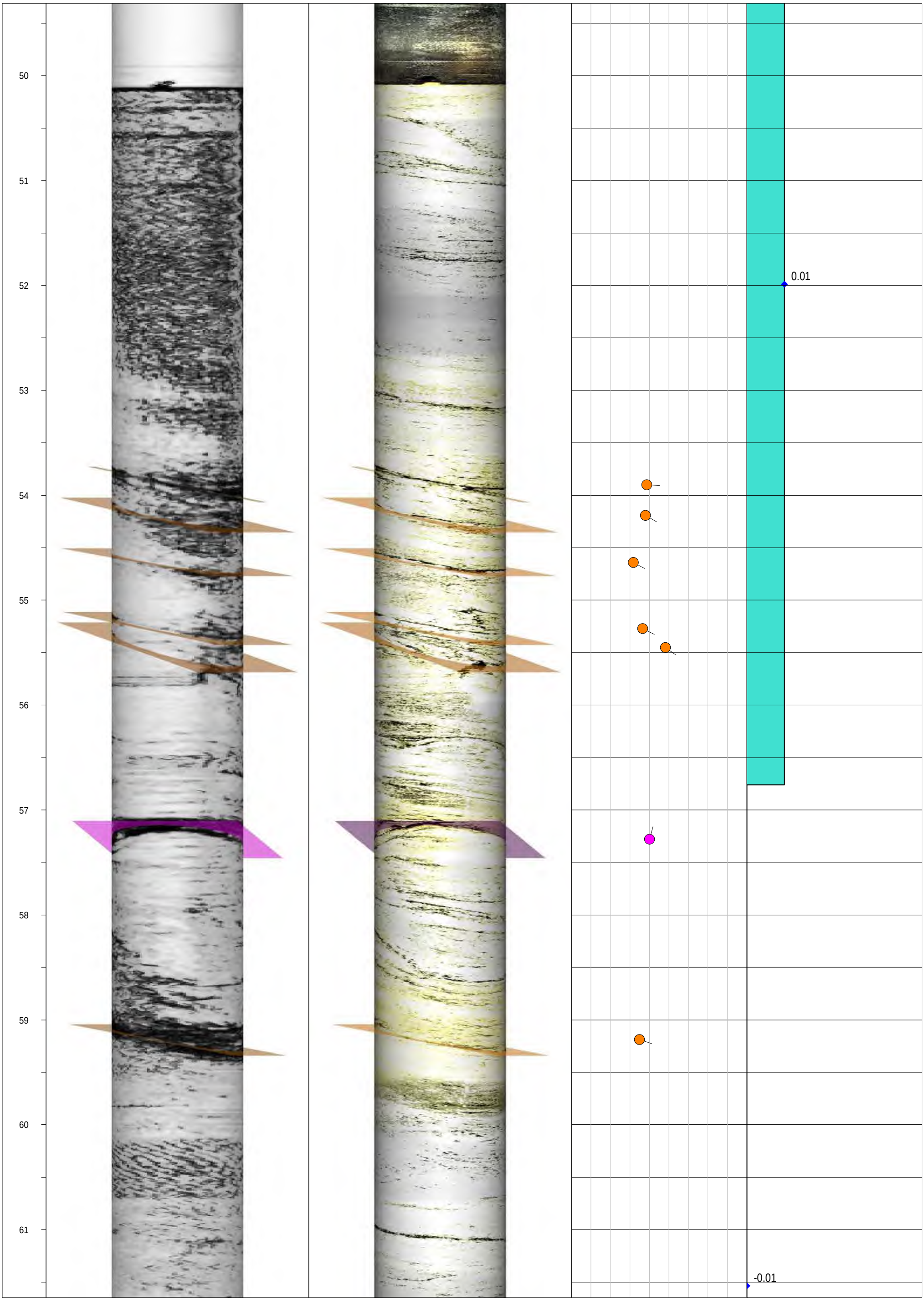
Well Name:	BH-54D	**Client:**	Georgia Power
Date Logged:	1/5/2024	**Project:**	
Logger:	Arcadis	**Location:**	Georgia Power Plant Yates, Nenman, GA

Structure Legend - Fracture Azimuth Quadrant

0 to 90 | 90 to 180 | 180 to 270 | 270 to 360

Depth 1ft:10ft	ATV Amplitude - True North	Optical Televiewer - True North	Fracture Azimuth and Dip	Pumped Flow
	View From: 180°	View From: 180°	0 Dip in Degrees from Horizontal 90	0 gpm 0.04

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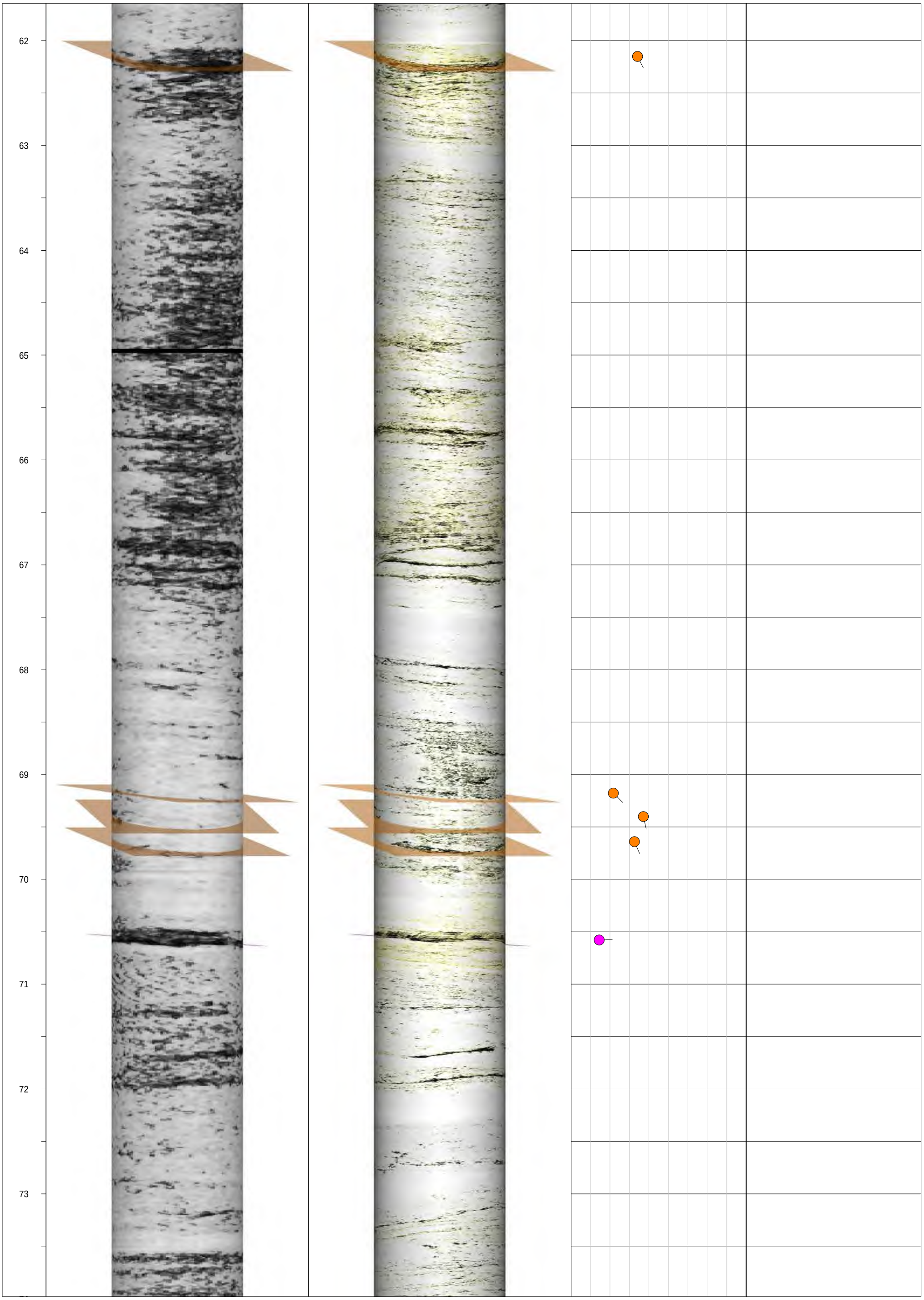
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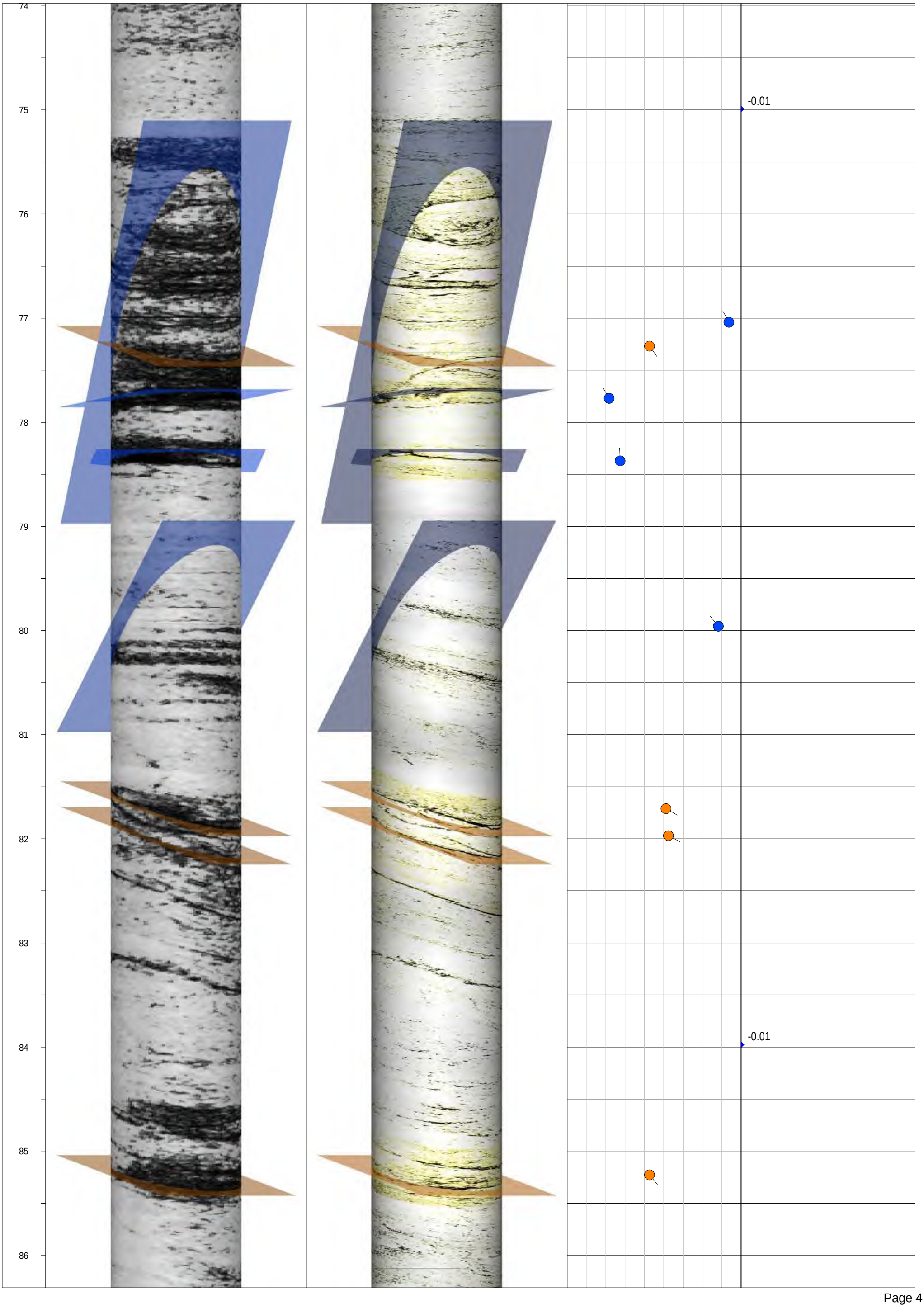
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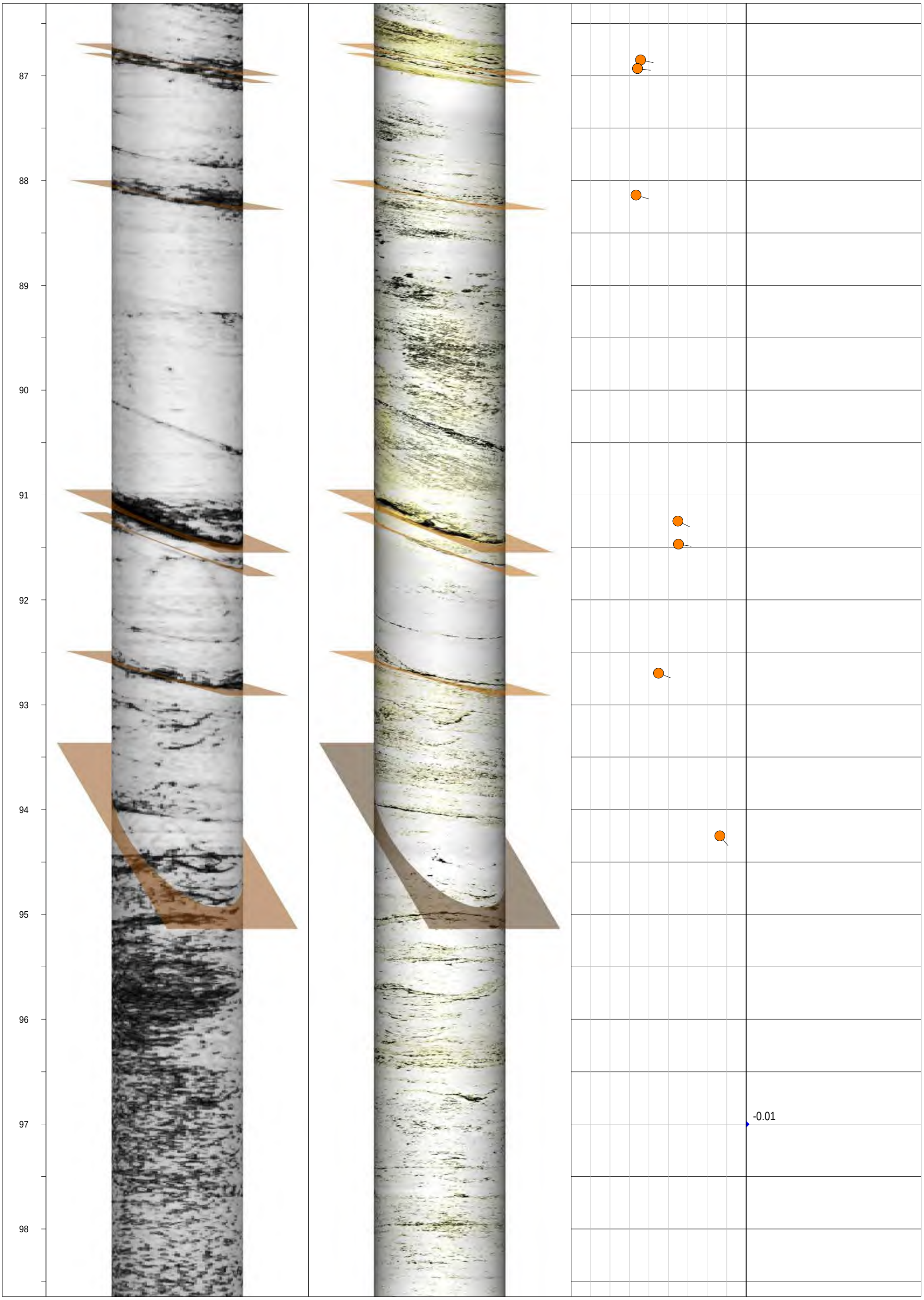
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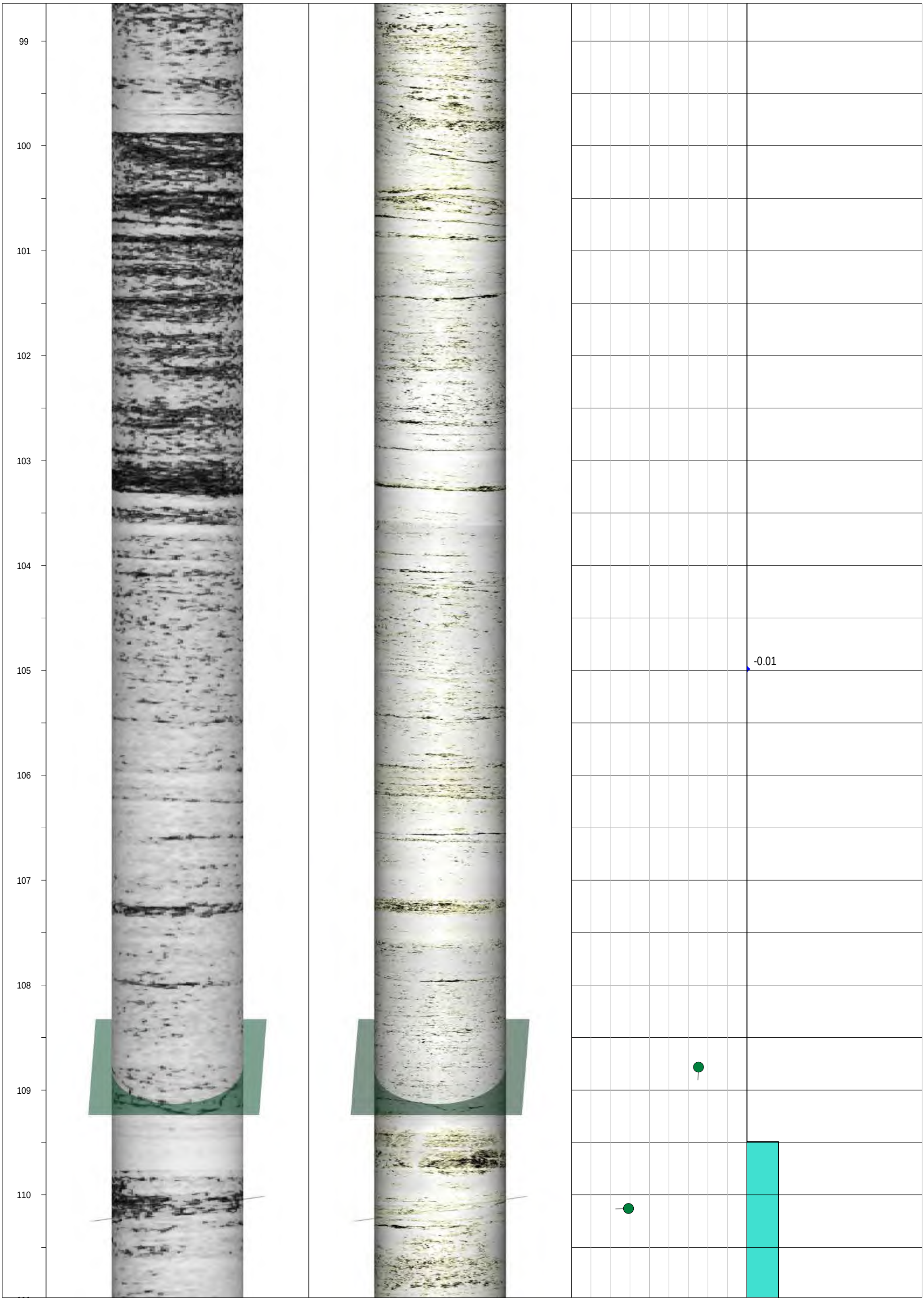
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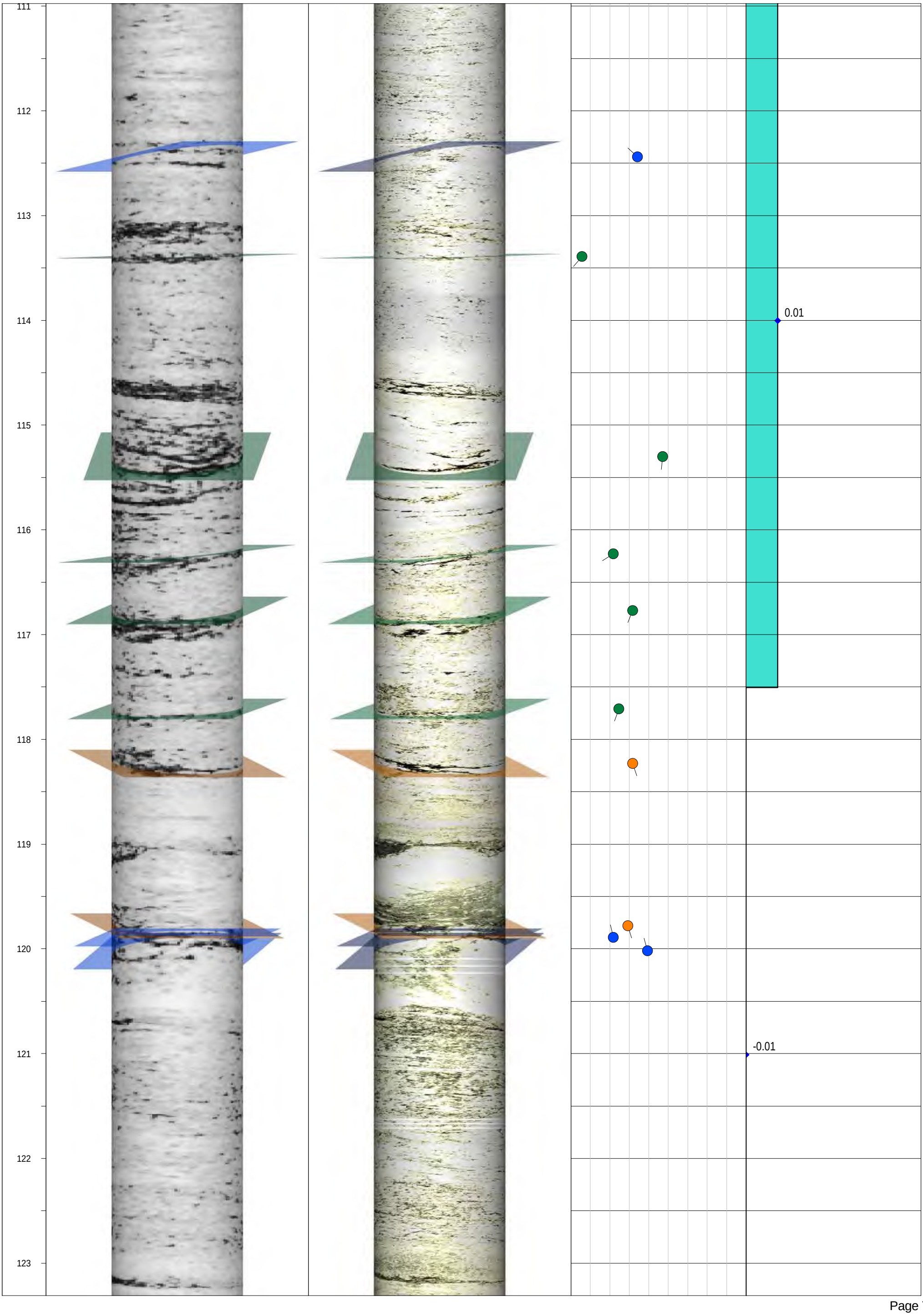
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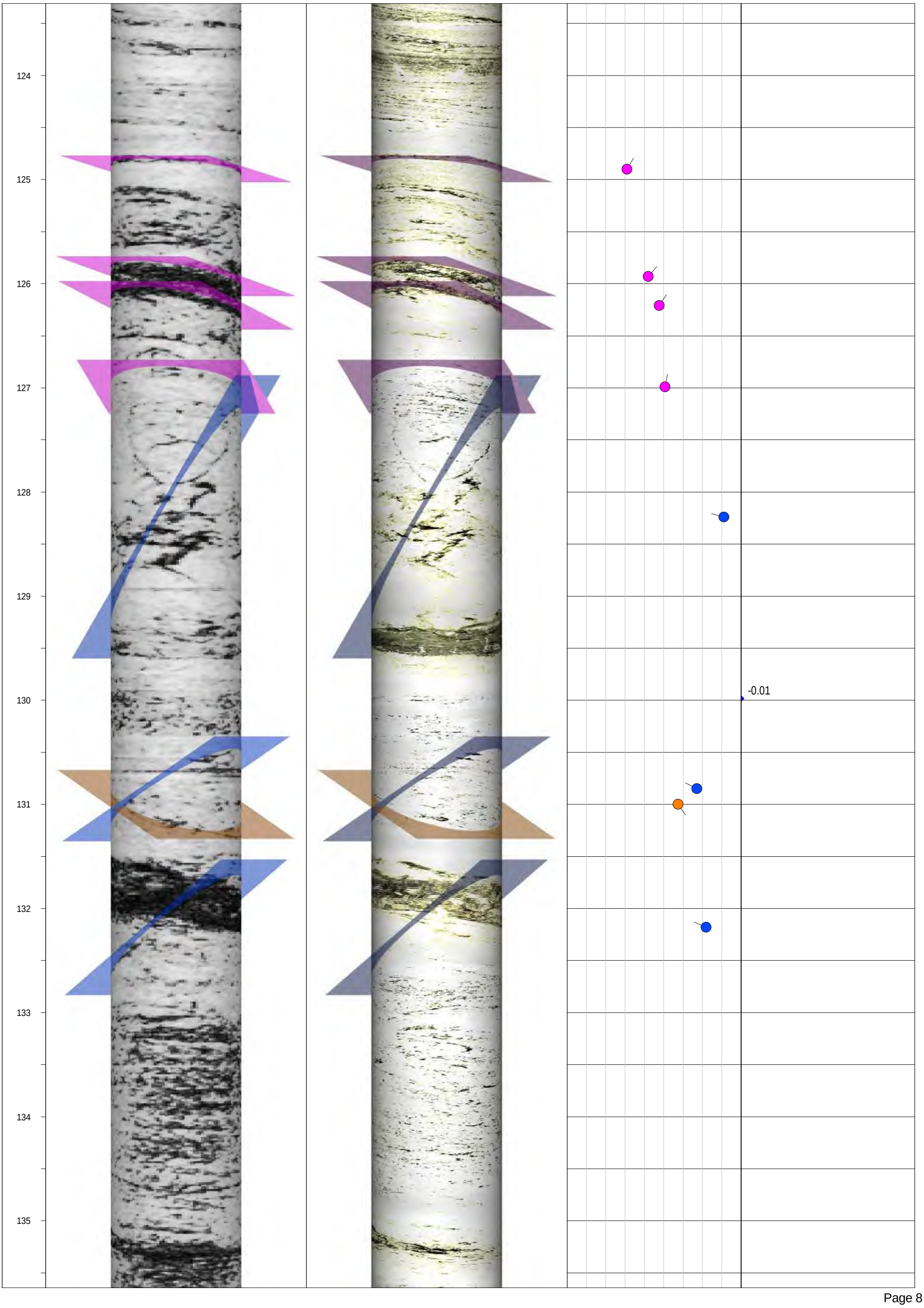
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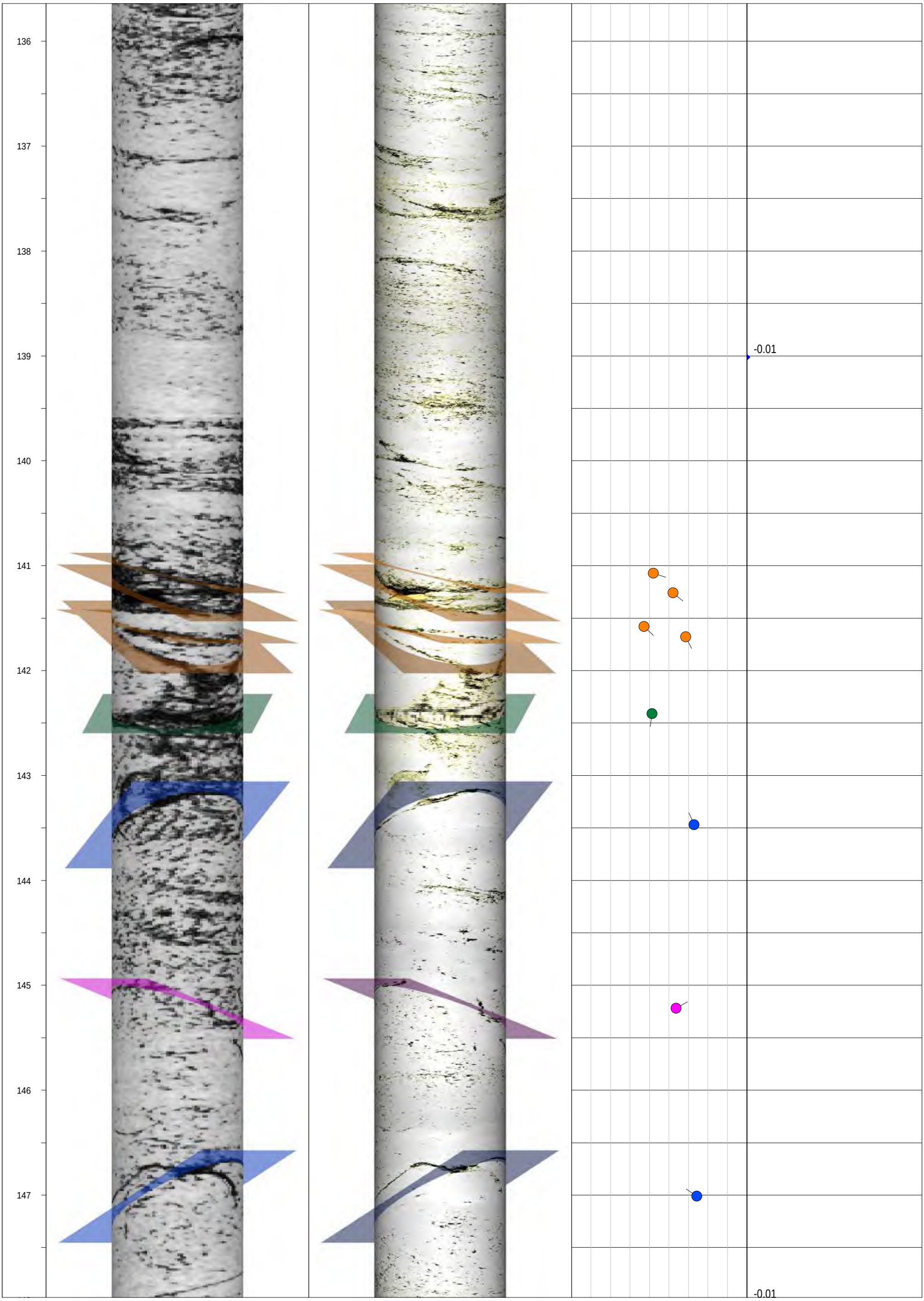
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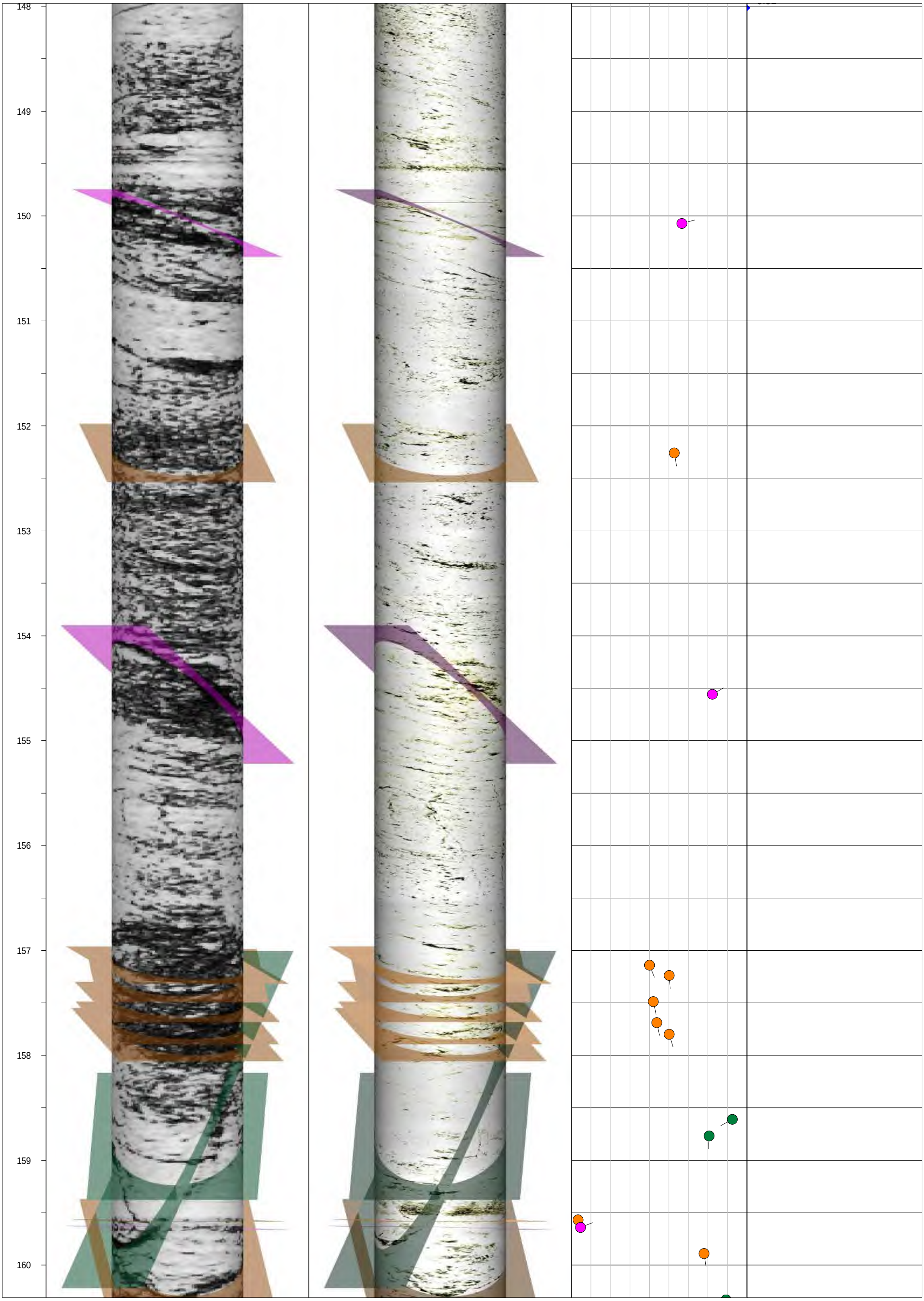

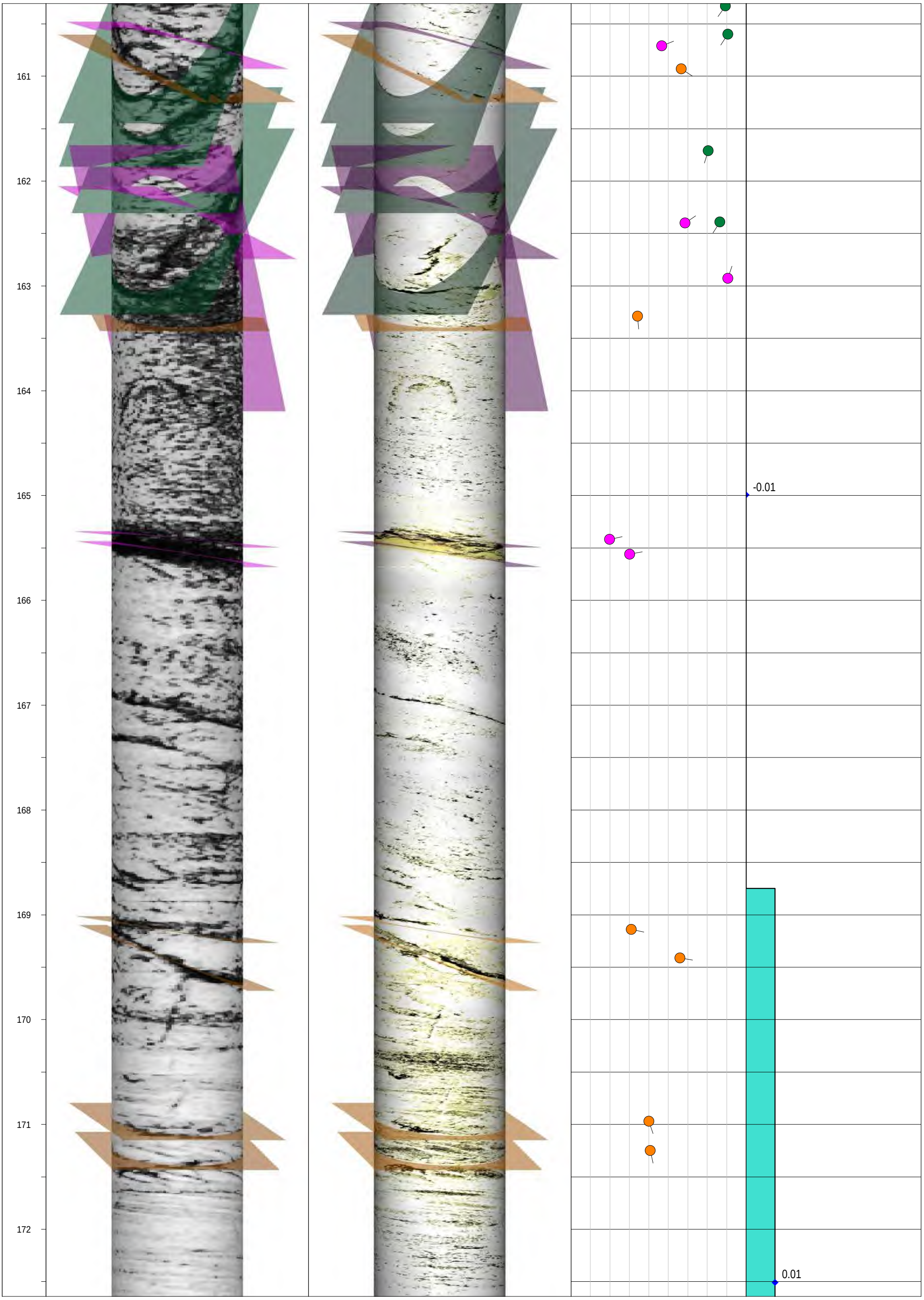
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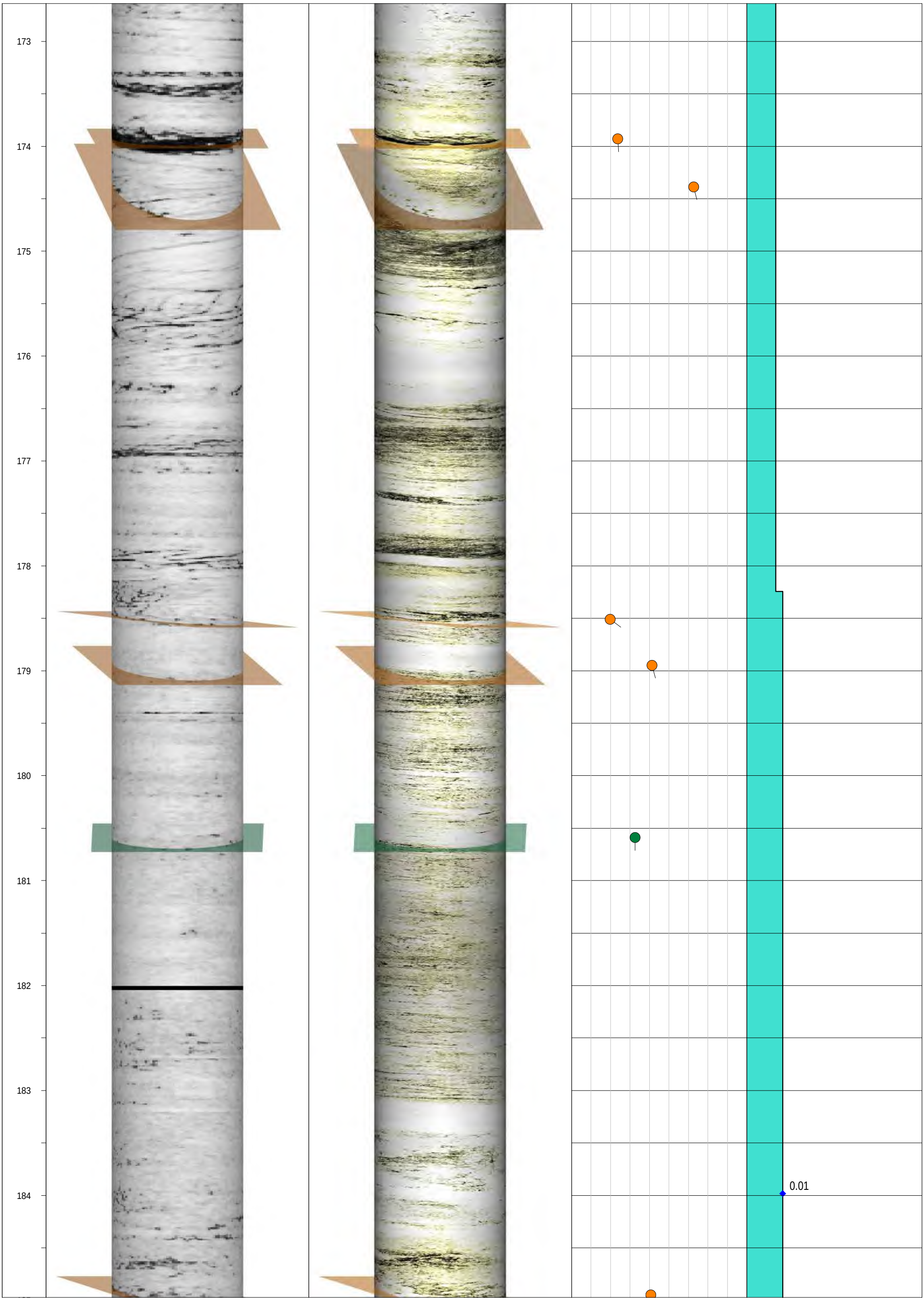
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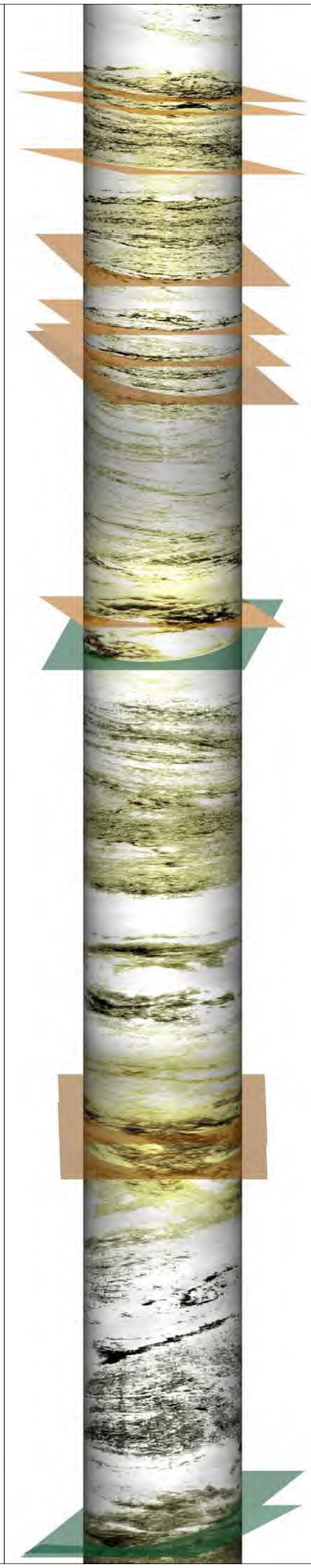

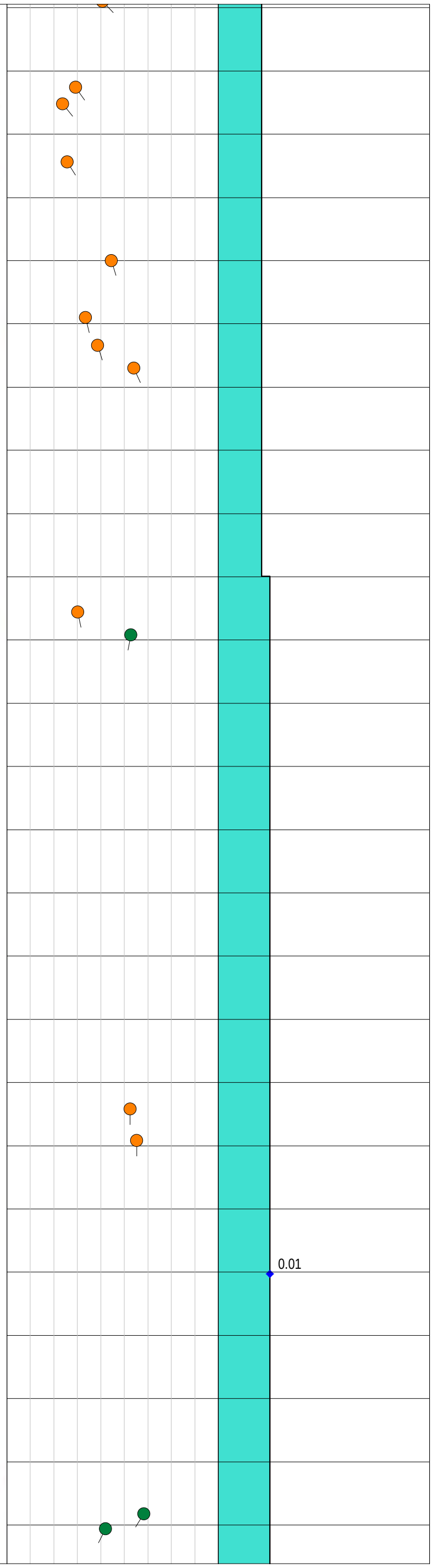

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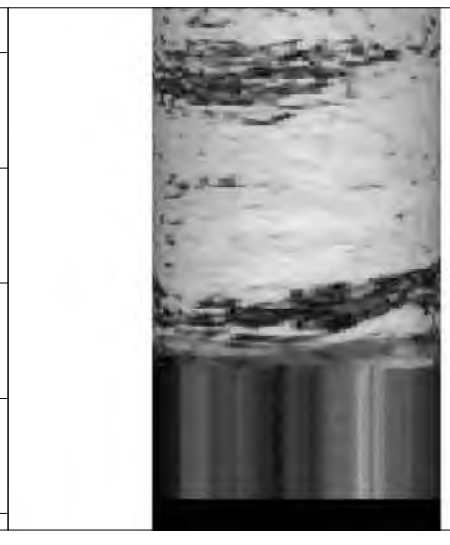


199

Attachment C

PZ-55, PZ-54D, PZ-56D Well Installation Logs

RECORD OF BOREHOLE PZ-55

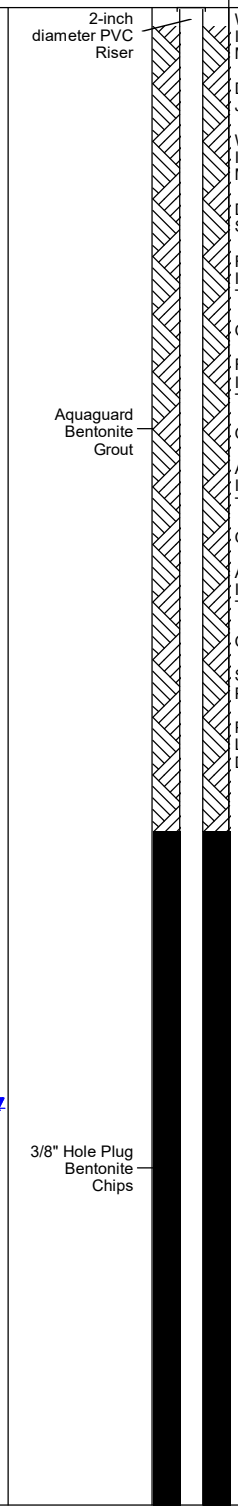
PROJECT: Georgia Power Plant Yates
PROJECT NUMBER: 30143622
DRILLED DEPTH: 65.3 ft
LOCATION: Newnan, GA

DRILL RIG: TerraSonic 150CC
DATE STARTED: 12/13/2023
DATE COMPLETED: 12/16/2023

NORTHING: 1257131.73
EASTING: 2073193.74
GS ELEVATION: 771.3
TOC ELEVATION: 774.02

DEPTH W.L.: 29.4
ELEVATION W.L.: 744.62
DATE W.L.: 12/21/2023
TIME W.L.: 11:15:00 AM

DEPTH (ft)	DESCRIPTION	USCS	GRAPHIC LOG	DEPTH (ft)	SAMPLE NO.	PHOTO	REC
0	0.0 - 22.0 (SM) Silty SAND; 10YR 7/4; loose; poorly sorted; fine to medium grained; slightly moist; trace coarse to medium mica; some relic rock structure.	SM		0.0	1		8.5 10.0
5	Grading to 10YR 6/6.						
10	Grading to 7.5YR 5/6				2		10.0 10.0
15	Grading to 10YR 5/3.						
20	Grading to 10YR 6/6; moist.						
22	22.0 - 65.3 Biotite Gneiss; 5Y 7/2' highly weathered; dry; with some gravel-size less weathered fragments.	BED-ROCK		22.0	3		10.0 10.0
25	Grading 10YR 6/4.						
28	grading some 2 to 3 inch sections of moderately weathered gneiss and highly weathered gniess.						
30	No recovery 30-33 ft likely due to advancing core barrel with water.				4		6.5 10.0
35	PWR; Partially to moderately weathered; Gneiss; some competent to moderately weathered rock; some pieces of friable rock. Core fragments medium to large pebbles to 1-3 inch pieces of core. 35 to 36.5 ft; Fine to coarse grained sandy zone.						
40							



PZ-55 MONITORING WELL DIAGRAM and NOTES

WELL CONSTRUCTION DETAILS

WELL CASING
Interval: -2.72'-55'
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Threaded

WELL SCREEN
Interval: 55'-65'
Material: U-Pack Schedule 40 PVC
Diameter: 2"
Slot Size: 0.010"

FILTER PACK
Interval: 52.5'-65.3'
Type: Southern Products and Silica GP#2
Quantity: 2.5 cf

FILTER PACK SEAL
Interval: 50.5'-52.5'
Type: 3/8" Pel-Plug Bentonite Pellets
Quantity: 0.6 cf

ANNULUS SEAL
Interval: 22'-50.5'
Type: 3/8" Hole Plug Bentonite Chips
Quantity: 6.3 cf

ANNULUS SEAL
Interval: 0.5'-22'
Type: Aquaguard Bentonite Grout
Quantity: 4.6 cf

SURFACE COMPLETION
Protection: 4"x4" Aluminum
Pad: 4'x4' Concrete
Lock: Yes
Date: 1/5/2024

DRILLING COMPANY: Betts Drilling
DRILLER: Ryan McCormack

CHECKED BY: David Prouty
DATE: 2/12/2024

ARCADIS

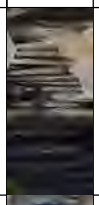
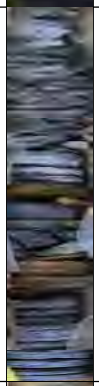
RECORD OF BOREHOLE PZ-55

PROJECT: Georgia Power Plant Yates
PROJECT NUMBER: 30143622
DRILLED DEPTH: 65.3 ft
LOCATION: Newnan, GA

DRILL RIG: TerraSonic 150CC
DATE STARTED: 12/13/2023
DATE COMPLETED: 12/16/2023

NORTHING: 1257131.73
EASTING: 2073193.74
GS ELEVATION: 771.3
TOC ELEVATION: 774.02

DEPTH W.L.: 29.4
ELEVATION W.L.: 744.62
DATE W.L.: 12/21/2023
TIME W.L.: 11:15:00 AM

DEPTH (ft)	DESCRIPTION	USCS	GRAPHIC LOG	DEPTH (ft)	SAMPLE NO.	PHOTO	REC	PZ-55 MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
45	22.0 - 65.3 Biotite Gneiss; 5Y 7/2' highly weathered; dry; with some gravel-size less weathered fragments. 40 to 45 ft; Gneiss; fresh; competent; no staining; very hard; micro-crystaline to coarse crystals; mostly felsic minerology; no staining; black and white; observed some pyrite in rock; multiple horizontal fractures; likely due to sonic drilling. 45 to 55 ft; Poor recovery, possible fracture zone; no observable loss in drilling fluid; observed some red staining on rock core; moderately fractured; mostly horizontal-low angle.	BED-ROCK		22.0	5		4.0/5.0	3/8" Hole Plug Bentonite Chips	
50					6		4.5/10.0	3/8" Pel-Plug Bentonite Pellets	
55	55 to 65 ft; Poor recovery; possible fractures zone; no observed loss in drilling fluid; observed some red or orange staining. Staining on rock core around possible fracture zone; moderately fractured; fractures mostly horizontal-low angle.							GP#2 (17-35) Silica Sand	
60					7		4.9/10.0	U-Pack Screen, slotted (0.010-inch)	
65									
70	Boring terminated at 65.3 feet bgs.								
75									
80									

DRILLING COMPANY: Betts Drilling
DRILLER: Ryan McCormack

CHECKED BY: David Prouty
DATE: 2/12/2024

ARCADIS

MONITORING WELL DEVELOPMENT LOG

ARCADIS

Site/Project Information

Well ID	PZ-55			Date	01/29/2024
Project	Yates 2022-2027 AP-B GW Consulting Services			Project No.	30143623
Site Location	GPC Plant Yates	Top of Screen (ft bmp)		Bottom of Screen (ft bmp)	
Weather	Sunny 50s	Time Begin	13:29	Time End	

Development Data

Measuring Point	Top of Casing	Pump Intake Setting (ft bmp)	NR
MP Elevation (ft)	2.5	Pumping Rate (gpm)	0.19
Land Surface Elevation (ft)	0	Development Method	Submersible
Pre-Dev Well Depth (ft bmp)	68.46	Post-Dev Well Depth (ft bmp)	NA
Pre-Dev DTW (ft bmp)	32.06	Post-Dev DTW (ft bmp)	NA
Pre-Dev Water Column (ft)	36.40	Post-Dev Water Column (ft)	NA
Casing Diameter (in) / Type	2/PVC		
Initial Well Volume (gallons)	5.91	Color	NA
Total Well Volumes Purged	1.95	Odor	NA
		Appearance	NA

Field Parameters

Time	Measured DTW (ft bmp)	Pumping Rate (gpm)	Elapsed Time (min)	Gallons Removed	Conductivity (us/cm)	Turbidity (NTU)	Temp (°C)	pH (s.u.)	ORP (mV)	DO (mg/L)	Remarks
13:35	NR	1	0	0.00	NR	NR	NR	NR	NR	NR	Pump on, surged screen length with development pump
13:41	52.1	1	6	6.00	398.4	171	16.8	6.24	26.3	2.55	NR
13:44	NR	1	9	9.00	NR	NR	NR	NR	NR	NR	Dry, pump off
13:52	NR	0	17	9.00	NR	NR	NR	NR	NR	NR	Pump on
13:53	NR	0.5	18	9.50	406	48.1	16.3	6.49	35.6	3.57	NR
13:55	NR	0.5	20	10.50	NR	NR	NR	NR	NR	NR	Dry, pump off
14:04	65.95	0	29	10.50	NR	NR	NR	NR	NR	NR	Monitor recharge
14:14	65.6	0	39	10.50	NR	NR	NR	NR	NR	NR	NR
14:24	65.3	0	49	10.50	NR	NR	NR	NR	NR	NR	NR
14:33	65.09	0	58	10.50	402.7	32.5	16.5	6.68	24.1	5.53	NR
14:34	NR	1	59	11.50	NR	NR	NR	NR	NR	NR	Dry, pump off

Development Personnel: Augie Parinello, Grant Willford

Notes:

Well Diameter (in) = Unit Volume (gallon per ft of water column)

ft -bmp - feet below measuring point
mV-millivolts
mg/L- Miligrams per liter
NTU - Nephelometric Turbidity Units

°F / °C- Degrees Fahrenheit/Celsius
gpm - gallons per minute
DTW - depth to water

mS/cm-Milisiemens per centimeter
ft-feet
in - Inches

Field Parameter/Stability Guidance: Three consecutive readings - pH (± 0.1 s.u), specific conductance (± 3% mS/cm), temperature (± 3% °F/°C), turbidity (±10% when turbidity is ≤ 10 NTU), DO (10% mg/L), ORP (±10 mV)

MONITORING WELL DEVELOPMENT LOG

Well Volume Calcs	1 = 0.04 1.25 = 0.06	1.5 = 0.09 2 = 0.16	2.5 = 0.26 3 = 0.37	3.5 = 0.50 4 = 0.65	6 = 1.47

ft -bmp - feet below measuring point
mV-millivolts
mg/L- Miligrams per liter
NTU - Nephelometric Turbidity Units

°F / °C- Degrees Fahrenheit/Celsius
gpm - gallons per minute
DTW - depth to water

mS/cm-Milisiemens per centimeter
ft-feet
in - Inches

Field Parameter/Stability Guidance: Three consecutive readings - pH (± 0.1 s.u), specific conductance (± 3% mS/cm), temperature (± 3% °F/°C), turbidity (±10% when turbidity is ≤ 10 NTU), DO (10% mg/L), ORP (±10 mV)

Site Name: Yates Cpc.

Calibrated By: A

Field Instrumentation Calibration Form

Date: 1/24/24

Field Conditions: Sunny, Cool 45° F

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter YSI	Pro Quatro	21D221711
Turbidity Meter	2100Q	23010D0006HS

Calibration Standard Information				
Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	4,490			
pH (SU)	4.00	36J1040	10/25	PINE
pH (SU)	7.00	2GJ0918	10/25	PINE
pH (SU)	10.00	3GL0538	10/25	PINE
D.O. (%)	N/A	N/A		
ORP (mV)	228.0	3GL0404	9/1/24	PINE

Calibration					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490	1413	9.8°C	± 10% of standard	EPA 2023
pH (SU)	4.00	3.87	10.0	± 0.1	GWMP
pH (SU)	7.00	7.02	10.5	± 0.1	GWMP
pH (SU)	10.00	9.99	10.1	± 0.1	GWMP
D.O. (%)	N/A	ORRO		± 10%	NA
ORP (mV)	228.0	243.0	9.8	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	10	± 10% of standard	EPA 2023
	20	21		
	100	103		
	800	799		

Calibration Check					
Time Start		Time Finish			
Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	4,490			± 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% of standard	EPA 2023

Notes:

2/15/24 PLANT YATES

0730 AP on site at PZ-55. HES, setup. Calibrate.

Weather: 33°F, Clear, No wind.

Calibration

YSI PRO PLUS SN# 18J103057

		Pre	Post (temp)	Lot # / Exp
pH	4	4.03	4.00 (4.3)	3CJ0090 10/25
	7	7.20	7.00 (4.4)	3GJ0718 10/25
	10	9.98	9.99 (4.3)	3G-0538 7/25
Cond		1.476	1.413 (7.9)	3GJ0727 10/24
ORP		259	240 (9.1)	3GL0404 09/24

HACH 2100Q S/N 180100C09267

10	9.92	10
20	19.8	20
100	101	100
800	798	801

PZ-54D - 130.04

PZ-56D - 45.24

OFFSET @ 1000

Scale: 1 square = _____

6.36 DTW - 31.75

TD - 65.3 33.52

Set pump: PP 403 3/8" @ 60' BGS.

Set pump @ 100 mL/min

Parameters

Time	DTW	pH	SpC	DO	ORP	Temp	Turb
8:18	33.25	6.33	0.453	1.95	202.8	9.8	10.23 100
8:23	33.82	5.96	0.400	1.76	210	9.9	8.53
8:28	34.60	5.93	0.387	1.87	204	10.1	7.75
	50 mL/min						
833	35.26	5.93	0.379	2.02	196.8	8.8	8.82
838	35.74	5.94	0.371	1.92	190.2	8.5	8.56
843	36.11	5.95	0.364	1.77	184.5	8.4	7.88
848	36.54	5.95	0.362	1.78	179.4	8.4	7.15
853	36.97	5.95	0.354	1.69	174.9	8.2	6.55
	20 mL/min						
858	37.21	5.96	0.350	1.72	170.2	7.0	6.61
903	37.45	5.96	0.341	1.75	164.8	6.9	7.04
908	37.55	5.97	0.335	1.77	160.0	7.2	5.59
913	38.00	5.97	0.329	1.76	151.2	6.9	

Scale: 1 square = _____ STOP.

RECORD OF BOREHOLE BH-54D: PZ-54D & PZ-56D

PROJECT: Georgia Power Plant Yates
PROJECT NUMBER: 30143622
DRILLED DEPTH: 200.0 ft
LOCATION: Newnan, GA

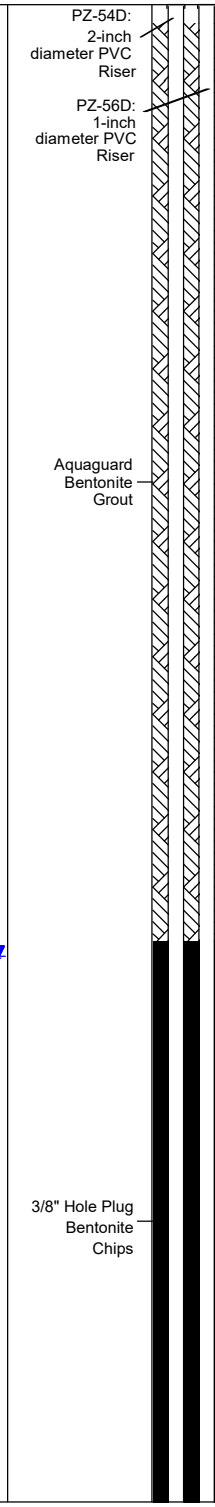
DRILL RIG: TerraSonic 150CC
DATE STARTED: 12/17/2023
DATE COMPLETED: 01/22/2024

NORTHING: 1256904.08
EASTING: 2073369.06
GS ELEVATION: 792.5
TOC ELEVATION: 795.56

DEPTH W.L.: 25.40 / 45.75
ELEVATION W.L.: 770.16 / 749.81
DATE W.L.: 01/29/24
TIME W.L.: 09:36

DEPTH (ft)	DESCRIPTION	USCS	GRAPHIC LOG	DEPTH (ft)	SAMPLE NO.	PHOTO	REC
	0.0 - 3.0 (SM) Silty SAND; 5YR 4/6; loose; poorly sorted; fine grained; moist; trace gravel; FILL.	SM		0.0			
5	3.0 - 15.0 (SP) SAND; 10YR 7/3; well sorted; fine grained; dry; with some silt and coarse sand and gravel	SP		3.0	1		8.2 10.0
10	Grading to 10YR 6/2.						
15	15.0 - 23.0 (SM) Silty SAND; 10YR 7/3; poorly sorted; fine grained; dry; some friable gravel-sized fragments.	SM		15.0	2		10.0 10.0
20							
25	23.0 - 25.0 (ML) Sandy SILT; 5Y 5/3; hard; non-plastic; slightly moist.	ML		23.0	3		10.0 10.0
	25.0 - 36.0 (SM) Silty SAND; 10YR 6/2; poorly sorted; fine grained; dry; some friable gravel-sized fragments.	SM		25.0			
30	Grading to 10YR 7/3						
	Grading to 10YR 5/4; moist.						
35	Grading to 10YR 7/3; with some gravel and coble size rock fragments				4		8.0 8.0
	36.0 - 200.0 Biotite Gneiss; GLEY2 6/5PB; hard; medium grained; finely foliated; slightly weathered.	BED-ROCK		36.0			
40	80 degree fracture, iron staining.				5		2.0 2.0

BH-54 MONITORING WELL DIAGRAM and NOTES



WELL CONSTRUCTION DETAILS

PZ-54D WELL CASING
Interval: -3.06'-124'
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Threaded

PZ-54D WELL SCREEN
Interval: 124'-134'
Material: U-Pack Schedule 40 PVC
Diameter: 2"
Slot Size: 0.010"

PZ-54D FILTER PACK
Interval: 121.9'-137.4'
Type: Southern Products and Silica GP#2
Quantity: 2.25 cf

PZ-56D WELL CASING
Interval: -3.06'-185'
Material: Schedule 40 PVC
Diameter: 1"
Joint Type: Threaded

PZ-56D WELL SCREEN
Interval: 185'-195'
Material: Schedule 40 PVC
Diameter: 1"
Slot Size: 0.010"

PZ-56D FILTER PACK
Interval: 182.8'-200'
Type: Southern Products and Silica GP#2
Quantity: 3.5 cf

FILTER PACK SEAL
Interval: 118'-121.9'
Type: 3/8" Pel-Plug Bentonite Pellets
Quantity: 0.6 cf

ANNULUS SEAL
Interval: 25'-118'
Type: 3/8" Hole Plug Bentonite Chips
Quantity: 21.5 cf

ANNULUS SEAL
Interval: 0.5'-25'
Type: Aquaguard Bentonite Grout
Quantity: 7 cf

SURFACE COMPLETION
Protection: 6"x6" Aluminum
Pad: 4'x4' Concrete
Lock: Yes
Date: 1/22/2024

DRILLING COMPANY: Betts Drilling
DRILLER: Ryan McCormack

CHECKED BY: David Prouty
DATE: 2/12/2024

ARCADIS

RECORD OF BOREHOLE BH-54D: PZ-54D & PZ-56D

PROJECT: Georgia Power Plant Yates
PROJECT NUMBER: 30143622
DRILLED DEPTH: 200.0 ft
LOCATION: Newnan, GA

DRILL RIG: TerraSonic 150CC
DATE STARTED: 12/17/2023
DATE COMPLETED: 01/22/2024

NORTHING: 1256904.08
EASTING: 2073369.06
GS ELEVATION: 792.5
TOC ELEVATION: 795.56

DEPTH W.L.: 25.40 / 45.75
ELEVATION W.L.: 770.16 / 749.81
DATE W.L.: 01/29/24
TIME W.L.: 09:36

DEPTH (ft)	DESCRIPTION	USCS	GRAPHIC LOG	DEPTH (ft)	SAMPLE NO.	PHOTO	REC	BH-54 MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
45	Biotite Gneiss; GLEY2 6/5PB; hard; medium grained; finely foliated; slightly weathered. Biotite Schist 40.5 to 41 feet bgs.	BED-ROCK		40.0	6		7.6 10.0		
50	Slightly weathered irregular joint				7		7.8 10.0		
55	Weathered zone 10 degree iron stained fracture.								
60	1 foot weathered zone				8		10.0 10.0	3/8" Hole Plug Bentonite Chips	
65	Grading to GLEY2 6/5 PB								
70	Grading to GLEY2 7/5 NB				9		7.5 10.0		
75									
80	Moderately weathered zone 88-89								

DRILLING COMPANY: Betts Drilling
DRILLER: Ryan McCormack

CHECKED BY: David Prouty
DATE: 2/12/2024

ARCADIS

RECORD OF BOREHOLE BH-54D: PZ-54D & PZ-56D

PROJECT: Georgia Power Plant Yates
PROJECT NUMBER: 30143622
DRILLED DEPTH: 200.0 ft
LOCATION: Newnan, GA

DRILL RIG: TerraSonic 150CC
DATE STARTED: 12/17/2023
DATE COMPLETED: 01/22/2024

NORTHING: 1256904.08
EASTING: 2073369.06
GS ELEVATION: 792.5
TOC ELEVATION: 795.56

DEPTH W.L.: 25.40 / 45.75
ELEVATION W.L.: 770.16 / 749.81
DATE W.L.: 01/29/24
TIME W.L.: 09:36

DEPTH (ft)	DESCRIPTION	USCS	GRAPHIC LOG	DEPTH (ft)	SAMPLE NO.	PHOTO	REC	BH-54 MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
85	Biotite Gneiss; GLEY2 6/5PB; hard; medium grained; finely foliated; slightly weathered. Slightly weathered, iron stained vertical fracture. Slightly weathered, iron stained horizontal fracture.	BED-ROCK		80.0	10		8.4/10.0		
90	Fresh; no staning to 200 feet.				11		3.9/10.0		
95									
100					12		5.0/10.0	3/8" Hole Plug Bentonite Chips	
105									
110					13		7.9/10.0		
115									
120								3/8" Hole Plug Bentonite Chips	

DRILLING COMPANY: Betts Drilling
DRILLER: Ryan McCormack

CHECKED BY: David Prouty
DATE: 2/12/2024

ARCADIS

RECORD OF BOREHOLE BH-54D: PZ-54D & PZ-56D

PROJECT: Georgia Power Plant Yates
PROJECT NUMBER: 30143622
DRILLED DEPTH: 200.0 ft
LOCATION: Newnan, GA

DRILL RIG: TerraSonic 150CC
DATE STARTED: 12/17/2023
DATE COMPLETED: 01/22/2024

NORTHING: 1256904.08
EASTING: 2073369.06
GS ELEVATION: 792.5
TOC ELEVATION: 795.56

DEPTH W.L.: 25.40 / 45.75
ELEVATION W.L.: 770.16 / 749.81
DATE W.L.: 01/29/24
TIME W.L.: 09:36

DEPTH (ft)	DESCRIPTION	USCS	GRAPHIC LOG	DEPTH (ft)	SAMPLE NO.	PHOTO	REC	BH-54 MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
125	Biotite Gneiss; GLEY2 6/5PB; hard; medium grained; fin elyfoliated; slightly weathered.	BED-ROCK		120.0	14		5.0/10.0	3/8" Pel-Plug Bentonite Pellets; GP#2 (7-35) Silica Sand	
130								U-Pack Screen, slotted (0.010-inch)	
135					15		8.4/10.0		
140									
145	Grading very coarse grained biotite.				16		8.6/10.0		
150	Visibile mineral grains							3/8" Hole Plug Bentonite Chips	
155					17		3.4/10.0		
160									

DRILLING COMPANY: Betts Drilling
DRILLER: Ryan McCormack

CHECKED BY: David Prouty
DATE: 2/12/2024

ARCADIS

RECORD OF BOREHOLE BH-54D: PZ-54D & PZ-56D

PROJECT: Georgia Power Plant Yates
PROJECT NUMBER: 30143622
DRILLED DEPTH: 200.0 ft
LOCATION: Newnan, GA

DRILL RIG: TerraSonic 150CC
DATE STARTED: 12/17/2023
DATE COMPLETED: 01/22/2024

NORTHING: 1256904.08
EASTING: 2073369.06
GS ELEVATION: 792.5
TOC ELEVATION: 795.56

DEPTH W.L.: 25.40 / 45.75
ELEVATION W.L.: 770.16 / 749.81
DATE W.L.: 01/29/24
TIME W.L.: 09:36

DEPTH (ft)	DESCRIPTION	USCS	GRAPHIC LOG	DEPTH (ft)	SAMPLE NO.	PHOTO	REC	BH-54 MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
165	Biotite Gneiss; GLEY2 6/5PB; hard; medium grained; finely foliated; slightly weathered. No apparent foliation 160.2 -164 ft	BED-ROCK		160.0	18		9.2/10.0	3/8" Hole Plug Bentonite Chips	
170	Very finely foliated with greenish mineral; visible mineral grains.				19		6.5/10.0		
175	Recovered core section 0.5 feet. Bedrock grading more competent.								
180	Recovered core section 0.8 feet. Recovered core section 1.5 feet.				20		10.0/10.0	GP#2 (7-35) Silica Sand	
185									
190	Gneiss with visible biotite; fresh; interfoliated GLEY23/5PB and GLEY2 6/5PB				21		6.5/10.0	1-inch ID Screen, slotted (0.010-inch)	
195									
200	Boring terminated.								

DRILLING COMPANY: Betts Drilling
DRILLER: Ryan McCormack

CHECKED BY: David Prouty
DATE: 2/12/2024

ARCADIS

MONITORING WELL DEVELOPMENT LOG

ARCADIS

Site/Project Information

Well ID	PZ-54D		Date	01/29/2024	
Project	Yates 2022-2027 AP-B GW Consulting Services		Project No.	30143623	
Site Location	GPC Plant Yates	Top of Screen (ft bmp)		Bottom of Screen (ft bmp)	
Weather	40s Partly Cloudy	Time Begin	09:36	Time End	

Development Data

Measuring Point	Top of Casing	Pump Intake Setting (ft bmp)	NR
MP Elevation (ft)	3.2	Pumping Rate (gpm)	0.21
Land Surface Elevation (ft)	0	Development Method	
Pre-Dev Well Depth (ft bmp)	138.8	Post-Dev Well Depth (ft bmp)	NA
Pre-Dev DTW (ft bmp)	25.4	Post-Dev DTW (ft bmp)	NA
Pre-Dev Water Column (ft)	113.40	Post-Dev Water Column (ft)	NA
Casing Diameter (in) / Type	2/PVC		
Initial Well Volume (gallons)	18.43	Color	NA
Total Well Volumes Purged	1.49	Odor	NA
		Appearance	NA

Field Parameters

Time	Measured DTW (ft bmp)	Pumping Rate (gpm)	Elapsed Time (min)	Gallons Removed	Conductivity (us/cm)	Turbidity (NTU)	Temp (°C)	pH (s.u.)	ORP (mV)	DO (mg/L)	Remarks
10:40	NR	1	0	0.00	NR	NR	NR	NR	NR	NR	Pump on, surged well with development pump
10:44	NR	1	4	4.00	1896	>1000	17.2	6.72	-7.6	1.12	NR
10:52	NR	0.5	12	8.00	1861	>1000	17.5	6.71	-18.8	1.09	NR
11:05	NR	1	25	21.00	1891	>1000	17.5	6.88	-31.7	3.4	Surged well
11:16	NR	0.5	36	26.50	1894	>1000	17.4	6.84	-33.7	0.68	NR
11:20	NR	0.25	40	27.50	NR	NR	NR	NR	NR	NR	Dry, pump off
12:25	NR	0	105	27.50	NR	NR	NR	NR	NR	NR	Pump on
12:31	134.38	0	111	14.40	NR	NR	NR	NR	NR	NR	Dry pump off, no water came up through tubing.
12:41	134.36	0	121	14.40	NR	NR	NR	NR	NR	NR	Monitoring recharge
12:51	134.34	0	131	14.40	NR	NR	NR	NR	NR	NR	Monitoring recharge

Development Personnel:

Notes:

Well Diameter (in) = Unit Volume (gallon per ft of water column)

Well Volume Calcs	1 = 0.04 1.25 = 0.06	1.5 = 0.09 2 = 0.16	2.5 = 0.26 3 = 0.37	3.5 = 0.50 4 = 0.65	6 = 1.47

ft -bmp - feet below measuring point
mV-millivolts
mg/L- Miligrams per liter
NTU - Nephelometric Turbidity Units

°F / °C- Degrees Fahrenheit/Celsius
gpm - gallons per minute
DTW - depth to water

mS/cm-Milisiemens per centimeter
ft-feet
in - Inches

Field Parameter/Stability Guidance: Three consecutive readings - pH (± 0.1 s.u), specific conductance (± 3% mS/cm), temperature (± 3% °F/°C), turbidity (±10% when turbidity is ≤ 10 NTU), DO (10% mg/L), ORP (±10 mV)

MONITORING WELL DEVELOPMENT LOG

ARCADIS

Site/Project Information

Well ID	PZ-56D		Date	01/29/2024	
Project	Yates 2022-2027 AP-B GW Consulting Services		Project No.	30143623	
Site Location	GPC Plant Yates	Top of Screen (ft bmp)		Bottom of Screen (ft bmp)	
Weather	40s Partly Cloudy	Time Begin	09:36	Time End	

Development Data

Measuring Point	Top of Casing	Pump Intake Setting (ft bmp)	NR
MP Elevation (ft)	3.37	Pumping Rate (gpm)	0.09
Land Surface Elevation (ft)	0	Development Method	Centrifugal
Pre-Dev Well Depth (ft bmp)	198.4	Post-Dev Well Depth (ft bmp)	NA
Pre-Dev DTW (ft bmp)	45.75	Post-Dev DTW (ft bmp)	NA
Pre-Dev Water Column (ft)	152.65	Post-Dev Water Column (ft)	NA
Casing Diameter (in) / Type	1/PVC		
Initial Well Volume (gallons)	6.20	Color	NA
Total Well Volumes Purged	4.04	Odor	NA
		Appearance	NA

Field Parameters

Time	Measured DTW (ft bmp)	Pumping Rate (gpm)	Elapsed Time (min)	Gallons Removed	Conductivity (us/cm)	Turbidity (NTU)	Temp (°C)	pH (s.u.)	ORP (mV)	DO (mg/L)	Remarks
10:23	NR	0	0	0.00	NR	NR	NR	NR	NR	NR	Pump on, developing with Waterra Pump
10:28	NR	0.1	5	0.50	1495	11.3	15.5	6.19	92.6	8.85	NR
10:29	NR	0.1	6	0.60	NR	NR	NR	NR	NR	NR	Pump off, dry
10:44	NR	0	21	0.60	NR	NR	NR	NR	NR	NR	Pump on
10:48	NR	0.1	25	1.00	1398	98.4	17.1	6.3	-16.5	8.33	NR
11:01	NR	0.08	38	2.04	NR	NR	NR	NR	NR	NR	Dry
12:59	118.11	0	156	2.04	NR	NR	NR	NR	NR	NR	Pump on
13:05	NR	0.1	162	2.64	1339	140	17.2	6.38	-11.3	8.55	NR
13:11	NR	0.1	168	3.24	NR	NR	NR	NR	NR	NR	Dry
14:44	NR	0	261	3.24	NR	NR	NR	NR	NR	NR	Pump on
14:48	NR	0.2	265	22.64	1332	138	16.5	6.45	-7.1	8.53	NR
14:56	NR	0.2	273	24.24	1339	229	16.8	6.47	-5.4	7.98	NR
15:00	NR	0.1	277	24.64	1320	267	16.8	6.51	-9.9	7.69	NR
15:04	NR	0.1	281	25.04	NR	NR	NR	NR	NR	NR	Dry, pump off

Development Personnel: Grant Willford, Augie Parinello

ft -bmp - feet below measuring point
mV-millivolts
mg/L- Miligrams per liter
NTU - Nephelometric Turbidity Units

°F / °C- Degrees Fahrenheit/Celsius
gpm - gallons per minute
DTW - depth to water

mS/cm-Milisiemens per centimeter
ft-feet
in - Inches

Field Parameter/Stability Guidance: Three consecutive readings - pH (± 0.1 s.u), specific conductance (± 3% mS/cm), temperature (± 3% °F/°C), turbidity (±10% when turbidity is ≤ 10 NTU), DO (10% mg/L), ORP (±10 mV)

MONITORING WELL DEVELOPMENT LOG

ARCADIS

Notes:

	Well Diameter (in) = Unit Volume (gallon per ft of water column)				
Well Volume Calcs	1 = 0.04 1.25 = 0.06	1.5 = 0.09 2 = 0.16	2.5 = 0.26 3 = 0.37	3.5 = 0.50 4 = 0.65	6 = 1.47

ft -bmp - feet below measuring point
mV-millivolts
mg/L- Miligrams per liter
NTU - Nephelometric Turbidity Units

°F / °C- Degrees Fahrenheit/Celsius
gpm - gallons per minute
DTW - depth to water

mS/cm-Milisiemens per centimeter
ft-feet
in - Inches

Field Parameter/Stability Guidance: Three consecutive readings - pH (± 0.1 s.u), specific conductance (± 3% mS/cm), temperature (± 3% °F/°C), turbidity (±10% when turbidity is ≤ 10 NTU), DO (10% mg/L), ORP (±10 mV)

Appendix C

Well Survey Report

Ms. Lauren Hartley
Southern Company
Environmental Solutions
241 Ralph McGill Blvd, NE
Atlanta, GA 30308

Arcadis U.S., Inc.
2839 Paces Ferry Road
Suite 900
Atlanta, GA 30339
United States
Phone: 770 431 8666
Fax: 770 435 2666
www.arcadis.com

Date: February 2, 2024
Subject: Survey of YGWC-29IB, PZ-54D, PZ-55, and PZ-56D

Dear Ms. Hartley,

Attached is a copy of the survey report for YGWC-29IB, PZ-54D, PZ-55, PZ-56D at Plant Yates.

We appreciate the opportunity to work with Georgia Power and look forward to working with you in the future. If you need additional information, please feel free to contact me.

Sincerely,
Arcadis U.S., Inc.

Mark Lupton, PLS
Survey Department Manager

Email: Mark.Lupton@arcadis.com
Direct Line: 770 384 6578

CC. Geoff Gay, PE

Enclosures:
Well Survey Report

DESCRIPTION AND SCOPE

Arcadis performed horizontal and vertical field survey locations at YGWC-29IB, PZ-54D, PZ-55, PZ-56D.

The Arcadis field survey team obtained horizontal and vertical locations for the top of the casings (TOC) and surveyed the nails located on the concrete pads around the well/piezometers. The team completed the field survey on these locations on 01/29/2024.

The Arcadis field team utilized a of Leica GS16 Global Positioning System (GPS) to obtain horizontal locations of the TOC and/or nail or top of the concrete well pad. All horizontal field survey locations are relative to the Georgia State Plane Coordinate System, West Zone, NAD1983, US Survey Feet. All horizontal locations meet or exceed an accuracy level of 0.50 foot. All vertical field survey locations were obtained from a level loop, performed with the Leica DNA03 digital level.

See the attached exhibit detailing the surveyed locations for YGWC-29IB, PZ-54D, PZ-55, and PZ-56D.

CERTIFICATION

I, Mark Lupton, being a Georgia Licensed Professional Land Surveyor, in accordance with the Georgia Board of Professional Engineers and Land Surveyors do hereby certify that the information contained herein is true and correct and has been prepared in accordance with generally accepted good land survey practices under my supervision, and the data is reliable to a horizontal accuracy of 0.5 foot and an elevational accuracy of 0.01 foot for each surveyed point.

FINAL REVIEW:

Mark Lupton, PLS DATE: February 02, 2024

Mark Lupton, PLS
2839 Paces Ferry Road SE Suite 900
Atlanta, GA 30339
770.431-8666

EXHIBIT 1

Plant Yates – AP-2 Monitoring Well and Piezometer Survey

Monument	Concrete Base Point	NAVD88 Elevation	Georgia State Plane Grid (NAD83), West Zone		WGS84 Latitude	Longitude
			Northing	Easting		
YGWC-29IB	Casing	712.88	1259036.39	2070237.53	33° 27' 32.574" N	84° 54' 31.800" W
	PK Nail	710.07	1259036.07	2070238.50		
	Ground	710.0				

Notes:
NAD83(2011) coordinates system on site established by utilizing eGPS VRS & OPUS Solutions

Elevations derived from Arcadis BM#1 (El. 758.24) tied to well YGWC-27i being at El. 713.35'

Elevations & coordinates are U.S. Survey feet

Plant Yates – AMA Monitoring Well and Piezometer Surveys (Note PZ-54D and PZ-56D are in the same casing)

Monument	Concrete Base Point	NAVD88 Elevation	Georgia State Plane Grid (NAD83), West Zone		WGS84 Latitude	Longitude
			Northing	Easting		
PZ-54D	Casing	795.56	1256904.08	2073369.06	33° 27' 11.699" N	84° 53' 54.661" W
	PK Nail	792.50	1256904.11	2073367.83		
	Ground	792.5				

Notes:
NAD83(2011) coordinates system on site established by utilizing eGPS VRS & OPUS Solutions

Elevations derived from Arcadis BM#1 (El. 758.24) tied to well YGWC-41 being at El. 801.23'

Elevations & coordinates are U.S. Survey feet

Monument	Concrete Base Point	NAVD88 Elevation	Georgia State Plane Grid (NAD83), West Zone		WGS84 Latitude	Longitude
			Northing	Easting		
PZ-56D	Casing	795.56	1256904.08	2073369.06	33° 27' 11.699" N	84° 53' 54.661" W
	PK Nail	792.50	1256904.11	2073367.83		
	Ground	792.5				

Notes:
NAD83(2011) coordinates system on site established by utilizing eGPS VRS & OPUS Solutions

Elevations derived from Arcadis BM#1 (El. 758.24) tied to well YGWC-41 being at El. 801.23'

Elevations & coordinates are U.S. Survey feet

Monument	Concrete Base Point	NAVD88 Elevation	Georgia State Plane Grid (NAD83), West Zone		WGS84 Latitude	Longitude
			Northing	Easting		
PZ-55	Casing	774.02	1257131.73	2073193.74	33° 27' 13.939" N	84° 53' 56.749" W
	PK Nail	771.32	1257130.72	2073193.55		
	Ground	771.3				

Notes:
NAD83(2011) coordinates system on site established by utilizing eGPS VRS & OPUS Solutions

Elevations derived from Arcadis BM#1 (El. 758.24) tied to well YGWC-41 being at El. 801.23'

Elevations & coordinates are U.S. Survey feet

Arcadis U.S., Inc.
2839 Paces Ferry Road, Suite 900
Atlanta
Georgia 30339
Phone: 770 431 8666
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Appendix C

Analytical Laboratory Data and Validation Reports

February 2024 and December 2023 (YGWC-50)

Georgia Power Co. – Plant Yates

Data Review Report

Metals, General Chemistry, and Radium Analyses

SDGs #92705140, 92705142, 92715031, and 92715057

Analyses Performed By:
Pace Analytical Services – Asheville, North Carolina
Pace Analytical Services – Peachtree Corners, Georgia
Pace Analytical Services – Greensburg, Pennsylvania

Report #53648R
Review Level: Tier II
Project: 30143622.3C, 30143623.3C, 30143625.3C, and 30143626.3C

Summary

This Data Review Report summarizes the review of Sample Delivery Groups (SDGs) #92705140, 92705142, 92715031, and 92715057 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:

SDG	Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
						RAD	MET	GEN CHEM
92705140 92705142	YAT-YGWC-50	92705140001 92705142001	Water	12/20/2023		X	X	X
	YAT-AMA-R6-FB-1	92705140002 92705142002	Water	12/20/2023		X	X	X
	YAT-AMA-R6-EB-1	92705140003 92705142003	Water	12/20/2023		X	X	X
	YAT-AMA-R6-FD-1	92705140004 92705142004	Water	12/20/2023	YAT-YGWC-50	X	X	X
92715031 92715057	YAT-YGWC-23S	92715031001 92715057001	Water	2/21/2024		X	X	X
	YAT-YGWC-49	92715031002 92715057002	Water	2/21/2024		X	X	X
	YAT-YAMW-3	92715031003 92715057003	Water	2/21/2024		X	X	X
	YAT-PZ-37	92715031004 92715057004	Water	2/21/2024		X	X	X
	YAT-PZ-37D	92715031005 92715057005	Water	2/21/2024		X	X	X
	YAT-PZ-52D	92715031006 92715057006	Water	2/21/2024		X	X	X
	YAT-YGWC-38	92715031007 92715057007	Water	2/22/2024		X	X	X
	YAT-YGWC-41	92715031008 92715057008	Water	2/22/2024		X	X	X

SDG	Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
						RAD	MET	GEN CHEM
	YAT-YGWC-42	92715031009 92715057009	Water	2/22/2024		X	X	X
	YAT-YAMW-2	92715031010 92715057010	Water	2/22/2024		X	X	X
	YAT-YAMW-4	92715031011 92715057011	Water	2/22/2024		X	X	X
	YAT-YAMW-5	92715031012 92715057012	Water	2/22/2024		X	X	X
	YAT-AMA-R6-EB-1	92715031013 92715057013	Water	2/22/2024		X	X	X
	YAT-AMA-R6-FB-1	92715031014 92715057014	Water	2/22/2024		X	X	X
	YAT-YGWC-43	92715031015 92715057015	Water	2/22/2024		X	X	X
	YAT-PZ-51	92715031016 92715057016	Water	2/22/2024		X	X	X
	YAT-YGWC-50	92715031017 92715057017	Water	2/22/2024		X	X	X
	YAT-PZ-55	92715031018 92715057018	Water	2/22/2024		X	X	X
	YAT-YAMW-1	92715031019 92715057019	Water	2/23/2024		X	X	X
	YAT-AMA-R6-FD-1	92715031020 92715057020	Water	2/23/2024	YAT-YAMW-1	X	X	X
	YAT-YGWC-36A	92715031021 92715057021	Water	2/23/2024		X	X	X
	YAT-YGWC-24SB	92715031022 92715057022	Water	2/23/2024		X	X	X
	YAT-PZ-35	92715031023 92715057023	Water	2/23/2024		X	X	X

Notes:

1. SDG #92705140: Metals analysis performed by Pace Analytical Services – Peachtree Corners, Georgia.
2. SDG #92705140: Anions (chloride, fluoride, and sulfate) and TSD analysis performed by Pace Analytical Services – Asheville, North Carolina.
3. SDG #92715031: Metals and TDS analysis performed by Pace Analytical Services – Peachtree Corners, Georgia.
4. SDG #92715031: Alkalinity, anions (chloride, fluoride, and sulfate), and TDS analysis performed by Pace Analytical Services – Asheville, North Carolina.
5. 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 6010D, 6020B, 7470A, 9315, and 9320; Standard Methods (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 6010D/6020B	Water	180 days from collection to analysis	Cool to <6°C; preserved to a pH of less than 2 s.u.
SW-846 7470A	Water	28 days from collection to analysis	Cool to <6°C; preserved to a pH of less than 2 s.u.

Note:
s.u. = standard units

All samples were analyzed within the specified holding times.

2. Blank Contamination

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

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

All compounds associated with the QA blanks exhibited a concentration less than the MDL, with the exception of the compounds listed in the following table. Sample results associated with QA blank contamination that were greater than the BAL resulted in the removal of the laboratory qualifier (B) of data. Sample results less than the BAL associated with the following sample locations were qualified as listed in the following table.

Sample Locations	Analytes	Sample Result	Qualification
SDG #92705140 YAT-YGWC-50 YAT-YAMW-1 YAT-AMA-R6-FD-1	Antimony (EB, FB)	Detected sample results >RL and <BAL	"UB" at detected sample result
SDG #92705140 YAT-YGWC-50 YAT-AMA-R6-FD-1	Arsenic (MB)		

Sample Locations	Analytes	Sample Result	Qualification
SDG #92705140 YAT-YAMW-3 YAT-PZ-37 YAT-PZ-37D YAT-PZ-52D YAT-YGWC-42 YAT-YAMW-4 YAT-YAMW-5 YAT-YGWC-50	Arsenic (EB, FB)	Detected sample results >RL and <BAL	"UB" at detected sample result

Notes:
EB = Equipment blank
FB = Field blank
MB = Method blank
RL = Reporting limit

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

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

3.1 MS/MSD Analysis

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

SDG #92705140: MS/MSD analysis was not performed using a sample from this SDG.

SDG #92715031: The MS/MSD analysis was performed using sample YAT-PZ-52D in association with SW-846 6010D. The concentrations of calcium, magnesium, potassium, and sodium in the unspiked sample were greater than four-times the spike concentration, hence, the SW-846 6010D MS/MSD sample results were not evaluated.

SDG #92715031: The MS/MSD analysis performed using sample YAT-YAMW-5 in association with SW-846 6020B analysis exhibited recoveries within the control limits.

SDG #92715031: The MS/MSD analysis performed using sample YAT-YGWC-23S 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.

SDG #92705140: Laboratory duplicate or MS/MSD analysis was not performed using a sample from this SDG.

SDG #92715031: MS/MSD analysis was performed in replacement of the laboratory duplicate analysis. The MS/MSD recoveries exhibited acceptable RPDs.

4. Field Duplicate Analysis

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

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YAT-YGWC-50 / YAT-AMA-R6-FD-1	Calcium	272	263	3.4%
	Beryllium	0.0051	0.0047	8.2%
	Boron	20.8	20.7	0.5%
	Cadmium	0.012	0.011	8.7%
	Barium	0.020	0.020	
	Cobalt	0.0052	0.0057	
	Lead	0.00030 J	0.00029 J	AC
	Lithium	0.0035 J	0.0034 J	
	Selenium	0.0015 J	0.0014 J	
YAT-YAMW-1 / YAT-AMA-R6-FD-1	Potassium	7.6	7.5	1.3%
	Sodium	24.0	23.7	1.3%
	Calcium	46.3	46.1	0.4%
	Magnesium	36.5	36.6	0.3%
	Barium	0.087	0.086	1.2%
	Boron	1.5	1.5	0.0%
	Beryllium	0.00015 J	0.00015 J	AC

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
	Cadmium	0.00023 J	0.00023 J	
	Cobalt	0.0044 J	0.0045 J	
	Lithium	0.017 J	0.018 J	
	Selenium	0.0056	0.0062	

Note:
AC = Acceptable

The differences in the results between the parent sample YAT-YGWC-50 and field duplicate sample YAT-AMA-R6-FD-1 were acceptable.

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

5. Laboratory Control Sample (LCS) Analysis

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

The LCS analysis exhibited recoveries within the control limits.

6. System Performance and Overall Assessment

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

Data Validation Checklist for Metals

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

Notes:

%R Percent recovery

RPD Relative percent difference

General Chemistry Analyses

1. Holding Times

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

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

All samples were analyzed within the specified holding times.

2. Blank Contamination

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

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

Analytes were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

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

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

3.1 MS/MSD Analysis

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

SDG #92705140: MS/MSD analysis was not performed using a sample from this SDG.

SDG #92715031: The MS/MSD analysis performed using samples YAT-AMA-R6-FB-1, YAT-AMA-R6-FD-1, and YAT-YGWC-36A in association with alkalinity analysis exhibited recoveries within the control limits.

SDG #92715031: The MS/MSD analysis performed using samples YAT-AMA-R6-EB-1 and YAT-AMA-R6-FD-1 in association with anions analysis exhibited recoveries within the control limits.

SDG #92715031: The MS/MSD analysis performed on sample location YAT-YGWC-43 in association with alkalinity analysis exhibited recoveries outside control limits as presented in the table below.

Sample Location	Analyte	MS Recovery	MSD Recovery
YAT-YGWC-43	Alkalinity, Total	68%	69%

The criteria used to evaluate the MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified as documented in the table below.

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

3.2 Laboratory Duplicate Analysis

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

SDG #92705140: Laboratory duplicate or MS/MSD analysis was not performed using a sample from this SDG.

SDG #92715031: Laboratory duplicate analysis was not performed using a sample from this SDG in association with TDS analysis.

SDG #92715031: MS/MSD analysis was performed in replacement of the laboratory duplicate analysis in association with alkalinity and anions analysis. The MS/MSD recoveries exhibited acceptable RPDs.

4. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 35% for water matrices is applied to the RPD between the parent sample and the field

duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YAT-YGWC-50 / YAT-AMA-R6-FD-1	TDS	1,930	1,890	2.1%
	Chloride	9.8	9.8	0.0%
	Fluoride	0.14	0.15	AC
	Sulfate	1,180	1,180	0.0%
YAT-YAMW-1 / YAT-AMA-R6-FD-1	Alkalinity, Bicarbonate	20.9	21.1	AC
	Alkalinity, Total	20.9	21.1	
	TDS	454	455	0.2%
	Chloride	5.2	5.2	0.0%
	Sulfate	237	241	1.7%

Note:
AC = Acceptable

The differences in the results between the parent sample YAT-YGWC-50 and field duplicate sample YAT-AMA-R6-FD-1 were acceptable.

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

5. Laboratory Control Sample (LCS) Analysis

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

The LCS analysis exhibited recoveries within the control limits.

6. System Performance and Overall Assessment

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

Data Validation Checklist for General Chemistry

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

Notes:

%R Percent recovery

RPD Relative percent difference

Radiological Analyses

1. Holding Times

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

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

Note:
s.u. = standard units

All samples were analyzed within the specified holding times.

2. Blank Contamination

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

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

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

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

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

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

Where:

U_{Sample} = uncertainty of the sample

U_{Blank} = uncertainty of the blank

Sample = concentration of isotope in sample

Blank = concentration of isotope in blank

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

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

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

3. Matrix Spike (MS)/Laboratory Duplicate Analysis

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

3.1 MS Analysis

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

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

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

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

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

Where:

x = measured concentration of the spiked sample.

x_0 = measured concentration of the unspiked sample.

c = spike concentration added.

$u^2(x)$, $u^2(x0)$, $u^2(c)$ = the squares of the respective standard uncertainties of these values.

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

MS analysis was not performed using a sample from these SDGs.

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.

SDG #92705142: Laboratory duplicate analysis was not performed on a sample from this SDG.

SDG #92715057: The laboratory duplicate analysis performed on sample location YAT-YGWC-41 in association with SW-846 9315 analysis exhibited acceptable difference between the results. Laboratory duplicate analysis was not performed on a sample from this SDG in association with SW-846 9320 analysis.

4. Field Duplicate Analysis

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

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

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

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YAT-YGWC-50 / YAT-AMA-R6-FD-1	Radium-226	0.284 U ± 0.214	0.267 U ± 0.189	AC
	Radium-228	0.193 U ± 0.268	0.0606 U ± 0.319	
	Total Radium	0.477 U ± 0.482	0.328 U ± 0.508	

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YAT-YAMW-1 / YAT-AMA-R6-FD-1	Radium-226	0.218 U ± 0.159	0.500 ± 0.219	AC
	Radium-228	0.348 U ± 0.481	-0.399 U ± 0.390	
	Total Radium	0.566 U ± 0.640	0.500 U ± 0.609	

Note:
AC = Acceptable

The differences in the results between the parent sample YAT-YGWC-50 and field duplicate sample YAT-AMA-R6-FD-1 were acceptable.

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

5. Tracer or Carrier

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

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

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

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

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

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

Where:

x = Analytical result of the LCS

c = Known concentration of the LCS

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

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

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

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

7. Isotope Identification

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

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

Based on the above criteria sample results were qualified as “U” by the laboratory as applicable.

8. System Performance and Overall Assessment

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

Data Validation Checklist for Radiologicals

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

Notes:

%R Percent recovery

RPD Relative percent difference

VALIDATION PERFORMED BY: Jennifer Singer

SIGNATURE: 

DATE: April 22, 2024

PEER REVIEW: Dennis Capria

DATE: April 29, 2024

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

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Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-OTH-20231220	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable)	YAT AP-3, A, B/B', R6	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

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

County / State origin of sample(s): Georgia

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

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

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

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

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

Analysis:

Specify Container Size **: 3 3 2 1

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

Analysis Requested

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

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

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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	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment
YAT-YGWC-50	WG	G	12/20/23	1339	--	--		5		X	X	X	X	See Remarks
YAT-AMA-R6-FB-1	WG	G	12/20/23	1430	--	--		5		X	X	X	X	See Remarks
YAT-AMA-R6-EB-1	WG	G	12/20/23	1440	--	--		5		X	X	X	X	See Remarks
YAT-AMA-R6-FD-1	WG	G	12/20/23	-	--	--		5		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; 7040A: Hg

Collected By:
Printed Name: (Arcadis) Auguste Parrinello
Signature (Arcadis)

Additional instructions from Pace®:

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

Relinquished by/Company: (Signature)	1003 12/21/23	Date/Time	Received by/Company: (Signature) Pace	Date/Time 12/21/23 1003	Tracking Number:
Relinquished by/Company: (Signature)		Date/Time	Received by/Company: (Signature)	Date/Time	Delivered by: [ ] In- Person [ ] Courier
Relinquished by/Company: (Signature)		Date/Time	Received by/Company: (Signature)	Date/Time	[ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)		Date/Time	Received by/Company: (Signature)	Date/Time	Page: of

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

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92715031

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Company Name:	Southern Company	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2024S1	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT AP-3, A, B/B', R6	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

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

County / State origin of sample(s): Georgia

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

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

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

Date Results Requested: Std. TAT

DW PWSID # or WW Permit # as applicable:

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

Analysis:

Specify Container Size **: 3 3 2 1 3

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

Analysis Requested

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

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

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

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

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment	Preservation non-conformance identified for sample
YAT-YGWC-23S	WG	G	2/21/24	1637				6		X	X	X	X	X	See Remarks (2)	
YAT-YAMW-1	WG	G						6		X	X	X	X	X	See Remarks	
YAT-AMA-R6-FD-1	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWC-36A	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWC-49	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWC-38	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWC-24SB	WG	G						6		X	X	X	X	X		
YAT-YGWC-41	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWC-42	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWC-43	WG	G						6		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): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

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

Additional Instructions from Pace®:

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

Relinquished by/Company: (Signature) Jessica Ware / Arcadis	Date/Time: 2/22/24 0903	Received by/Company: (Signature) / Pace	Date/Time: 2/22/24 0903	Tracking Number:
Relinquished by/Company: (Signature) / Pace	Date/Time: 2/22/24 1545	Received by/Company: (Signature)	Date/Time: 2/22 1545	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: 1 of 1

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

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Company Name:	Southern Company	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contarts
Customer Project #:	Task No. YAT-CCR-ASSMT-202451	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', R6		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

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

County / State origin of sample(s): Georgia

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

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

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

Date Results Requested: STANDARD TAT

DW PWSID # or WW Permit # as applicable:

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

Analysis:

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

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment	Preservation non-conformance identified for sample
YAT-YGWC-23S	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YAMW-1	WG	G						6		X	X	X	X	X	See Remarks	
YAT-AMA-R6-FD-1	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWC-36A	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWC-49	WG	G	2/21/24	1725	—	—		6		X	X	X	X	X	See Remarks DUP	
YAT-YGWC-38	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWC-24SB	WG	G						6		X	X	X	X	X		
YAT-YGWC-41	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWC-42	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWC-43	WG	G						6		X	X	X	X	X	See Remarks	

Specify Container Size **: 3 3 2 1 3

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

Analysis Requested

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

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

Lab Use Only

Proj. Mgr: Bonnie Vang

AcctNum / Client ID:

Table #:

Profile / Template: 16561

Prelog / Bottle Ord. ID:

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): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

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

Additional Instructions from Pace®:

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

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
ARCADIS	2/22/24 0900		2/22/24 0900	
Arcadis	2/22/24 0903		2/22 24 0903	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Pace	2/22/24 1545		2/22 1545	
				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/

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

CHAIN-OF-CUSTODY Analytical Request Document

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

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308
Customer Project #:	Task No. YAT-CCR-ASSMT-202451
Project Name:	Georgia Power Yates
Site Collection Info/Facility ID (as applicable):	YAT AP-3, A, B/B', R6
Contact/Report To:	Lauren Hartley
Phone #:	470-620-6176
E-Mail:	laucoker@southernco.com
Cc E-Mail:	Arcadis contacts
Invoice To:	
Invoice E-Mail:	
Purchase Order # (if applicable):	GPC82474-0002
Quote #:	

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

County / State origin of sample(s): Georgia

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

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

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

Date Results Requested: Standard TAT

DW PWSID # or WW Permit # as applicable:

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

Analysis:

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

Specify Container Size **: 3 3 2 1 3

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

Analysis Requested

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

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

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment	Preservation non-conformance identified for sample
YAT-YAMW-2	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YAMW-3	WG	G	2/21/24	1202	-	-	-	6		X	X	X	X	X	See Remarks	
YAT-YAMW-4	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YAMW-5	WG	G						6		X	X	X	X	X	See Remarks	
YAT-PZ-37	WG	G						6		X	X	X	X	X	See Remarks	
YAT-PZ-35	WG	G						6		X	X	X	X	X	See Remarks	
YAT-PZ-37D	WG	G						6		X	X	X	X	X	See Remarks	
YAT-PZ-51	WG	G						6		X	X	X	X	X	See Remarks	
YAT-PZ-52D	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWC-50	WG	G						6		X	X	X	X	X	See Remarks	

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

Customer Remarks / Special Conditions / Possible Hazards:

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

Collected By:
Printed Name: (Arcadis) - Mark Chestnut
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:
AWS / AWS	2/21/24 1302	Jessica Dore / Arcadis	2/21/24 1302	
Jessica Dore / Arcadis	2/22/24 0903	[illegible] / Pace	2/22/24 0903	Delivered by: [ ] In- Person [ ] Courier
[illegible] / Pace	2/22/24 1546		2/22/24 1546	[ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 1 of 1

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Pace® 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:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202451	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-1, A, B/B', R6		Purchase Order # (If applicable):	GPC82474-0002
		Quote #:	

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

County / State origin of sample(s): Georgia

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

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

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

Date Results Requested: Std TAT

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) 200mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

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

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

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/9320	Alkalinity (SM2320B)	Lab Use Only	Sample Comment	Preservation non-conformance identified for sample
YAT-YAMW-2	WG	G						6		X	X	X	X	X		See Remarks	
YAT-YAMW-3	WG	G						6		X	X	X	X	X		See Remarks	
YAT-YAMW-4	WG	G						6		X	X	X	X	X		See Remarks	
YAT-YAMW-5	WG	G						6		X	X	X	X	X		See Remarks	
YAT-PZ-37	WG	G	2/21/24	0954				6		X	X	X	X	X		See Remarks UU4	
YAT-PZ-35	WG	G						6		X	X	X	X	X		See Remarks	
YAT-PZ-37D	WG	G	2/21/24	1413				6		X	X	X	X	X		See Remarks UU5	
YAT-PZ-51	WG	G						6		X	X	X	X	X		See Remarks	
YAT-PZ-52D	WG	G	2/21/24	1058				6		X	X	X	X	X		See Remarks UU6	
YAT-YGWC-50	WG	G						6		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): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

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

Additional Instructions from Pace®:

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

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Jessica Ware / Arcadis	2/22/24 0903	Ilyan Hillman / Pace	2/22/24 0903	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In-Person [ ] Courier
Ilyan Hillman / Pace	2/22/24 1545		2/22 1545	[ ] 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: 2 of 2

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

CHAIN-OF-CUSTODY Analytical Request Document

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Scan QR Code for instructions

92715031

Company Name:	Southern Company	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202451	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', R6		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

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

County / State origin of sample(s): Georgia

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

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

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

Date Results Requested: STANDARD TAT

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 **

Identify Container Preservative Type***

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
								3	3	2	1	3			
								2	1	1	2	1			
YAT-YGWC-23S	WG	G						6		X	X	X	X	X	See Remarks
YAT-YAMW-1	WG	G						6		X	X	X	X	X	See Remarks
YAT-AMA-R6-FD-1	WG	G						6		X	X	X	X	X	See Remarks
YAT-YGWC-36A	WG	G						6		X	X	X	X	X	See Remarks
YAT-YGWC-49	WG	G						6		X	X	X	X	X	See Remarks
YAT-YGWC-38	WG	G	2/22/24	0945	—	—		6		X	X	X	X	X	See Remarks 007
YAT-YGWC-24SB	WG	G						6		X	X	X	X	X	
YAT-YGWC-41	WG	G	2/22/24	1533	—	—		6		X	X	X	X	X	See Remarks 008
YAT-YGWC-42	WG	G	2/22/24	1708	—	—		6		X	X	X	X	X	See Remarks 009
YAT-YGWC-43	WG	G						6		X	X	X	X	X	See Remarks

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

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

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

Preservation non-conformance identified for sample

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

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

Additional instructions from Pace®:

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

	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature) ARCADIS	2/23/24 0918	Received by/Company: (Signature) Ryan Williams / Pace	2/23/24 0918
Relinquished by/Company: (Signature) Ryan Williams / Pace	2/23/24 1307	Received by/Company: (Signature)	2/23/24 1307
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

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

Page: 1 of 3

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

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Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No: YAT-CCR-ASSMT-2024S1	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', R6		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

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

County / State origin of sample(s): Georgia

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

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

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

Date Results Requested: STANDARD TAT

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [V] 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-YAMW-2	WG	G	2/22/24	1220	—	—		6		X	X	X	X	X	See Remarks 610	
YAT-YAMW-3	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YAMW-4	WG	G	2/22/24	1352	—	—		6		X	X	X	X	X	See Remarks	
YAT-YAMW-5	WG	G	2/22/24	1115	—	—		6		X	X	X	X	X	See Remarks 611 612	
YAT-PZ-37	WG	G						6		X	X	X	X	X	See Remarks	
YAT-PZ-35	WG	G						6		X	X	X	X	X	See Remarks	
YAT-PZ-37D	WG	G						6		X	X	X	X	X	See Remarks	
YAT-PZ-51	WG	G						6		X	X	X	X	X	See Remarks	
YAT-PZ-52D	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWC-50	WG	G						6		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): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By: Printed Name: (Arcadis) - Kim Lapszynski; Signature: (Arcadis) -

Additional Instructions from Pace®:

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

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
/ ARCADIS	2/23/24 0918	Kim Williams / Pace	2/23/24 0918	
Kim Williams / Pace	2/23/24 1307	/ Pace	2/23/24 1307	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: 2 of 3

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

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Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2024S1	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', R6		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

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

County / State origin of sample(s): Georgia

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

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

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

Date Results Requested: STANDARD TAT

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-AMA-R6-EB-1	WG	G	2/22/24	1440	—	—		6		X	X	X	X	X	See Remarks 013
YAT-AMA-R6-FB-1	WG	G	2/22/24	1125	—	—		6		X	X	X	X	X	See Remarks 014
YAT-YGWC-24SB	WG	G						6		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): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

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

Additional Instructions from Pace®:

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

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
ARCADIS	2/23/24 0918	Ryan W. Williams / Pace	2/23/24 0918	
Ryan W. Williams / Pace	2/23/24 1307	[signature]	2/23/24 1307	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: 3 of 3

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

CHAIN-OF-CUSTODY Analytical Request Document

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

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-670-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2024S1	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', R6		Purchase Order # (if applicable):	GPCB2474-0002
		Quote #:	

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

County / State origin of sample(s): Georgia

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

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

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

Date Results Requested: Std TAT

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

**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-YGWC-23S	WG	G						6		X	X	X	X	X	See Remarks
YAT-YAMW-1	WG	G						6		X	X	X	X	X	See Remarks
YAT-AMA-R6-FD-1	WG	G						6		X	X	X	X	X	See Remarks
YAT-YGWC-36A	WG	G						6		X	X	X	X	X	See Remarks
YAT-YGWC-49	WG	G						6		X	X	X	X	X	See Remarks
YAT-YGWC-38	WG	G						6		X	X	X	X	X	See Remarks
YAT-YGWC-24SB	WG	G						6		X	X	X	X	X	
YAT-YGWC-41	WG	G						6		X	X	X	X	X	See Remarks
YAT-YGWC-42	WG	G						6		X	X	X	X	X	See Remarks
YAT-YGWC-43	WG	G	2/22/24	1651				6		X	X	X	X	X	See Remarks 015

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:
Preservation non-conformance identified for sample

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg
Additional metals (6010D): Ca, 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)

	Date/Time	Received by/Company: (Signature)	Date/Time	Tracking Number:
Relinquished by/Company: (Signature) Jessica Ware / Arcadis	2/23/24 0830	Received by/Company: (Signature) ARCADIS	2/23/24 0830	
Relinquished by/Company: (Signature) ARCADIS	2/23/24 0918	Received by/Company: (Signature) Leon Williams / Pace	2/23/24 0918	Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature) Leon Williams / Pace	2/23/24 1307	Received by/Company: (Signature)	2/23/24 1307	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 1 of 3

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

CHAIN-OF-CUSTODY Analytical Request Document

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Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202451	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', R6		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

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

County / State origin of sample(s): Georgia

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

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

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

Date Results Requested: Std TAT

DW PWSID # or WW Permit # as applicable:

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

Analysis:

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

Specify Container Size **: 3 3 2 1 3

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

Analysis Requested

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers: Plastic	Number & Type of Containers: Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment
YAT-YAMW-2	WG	G						6		X	X	X	X	X	See Remarks
YAT-YAMW-3	WG	G						6		X	X	X	X	X	See Remarks
YAT-YAMW-4	WG	G						6		X	X	X	X	X	See Remarks
YAT-YAMW-5	WG	G						6		X	X	X	X	X	See Remarks
YAT-PZ-37	WG	G						6		X	X	X	X	X	See Remarks
YAT-PZ-35	WG	G						6		X	X	X	X	X	See Remarks
YAT-PZ-37D	WG	G						6		X	X	X	X	X	See Remarks
YAT-PZ-51	WG	G	2/22/24	1730				6		X	X	X	X	X	See Remarks 016
YAT-PZ-52D	WG	G						6		X	X	X	X	X	See Remarks
YAT-YGWC-50	WG	G	2/22/24	1020				6		X	X	X	X	X	See Remarks 017

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): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

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

Additional Instructions from Pace®:

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

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Jessica Ware / Arcadis	2/23/24 0800	[illegible] / ARCADIS	2/23/24 0800	
[illegible] / ARCADIS	2/23/24 0918	Ryan Williams / Pace	2/23/24 0918	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Ryan Williams / Pace	2/23/24 1301	[illegible]	2/23/24 1307	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	

Page: 2 of 3

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

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Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2024S1	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', R6		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET		County / State origin of sample(s):	Georgia

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

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

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

Date Results Requested: Std TAT

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-AMA-R6-EB-1	WG	G						6		X	X	X	X	X	See Remarks
YAT-AMA-R6-FB-1	WG	G						6		X	X	X	X	X	See Remarks
YAT-YGWC-24SB	WG	G						6		X	X	X	X	X	See Remarks
YAT-PZ-55	WG	G	2/22/24	1439				6		X	X	X	X	X	618

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): Ca, 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	2/23/24 0800	[illegible] / ARCADIS	2/23/24 0800
[illegible] / ARCADIS	2/23/24 0918	William Hunt / Pace	2/23/24 0918
William Hunt / Pace	2/23/24 1307	[illegible]	2/23/24 1307

Tracking Number:

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

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

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92718031

Company Name: Southern Company
Street Address: 241 Ralph McGill Blvd, Atlanta, GA 30308
Contact/Report To: Lauren Hartley
Phone #: 470-620-6176
E-Mail: laucoker@southernco.com
Cc E-Mail: Arcadis contacts
Invoice To:
Invoice E-Mail:
Customer Project #: Task No. YAT-CCR-ASSMT-202452
Project Name: Georgia Power Yates
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', R6
Purchase Order # (if applicable): GPC82474-0002
Quote #:
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET
County / State origin of sample(s): Georgia
Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other
Regulatory Program (DW, RCRA, etc.) as applicable:
Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other
Date Results Requested: STANDARD TAT
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

Specify Container Size **: 3 | 3 | 2 | 1 | 3
Identify Container Preservative Type***: 2 | 1 | 1 | 2 | 1

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 Date	Collected Time	Composite End Date	Composite End Time	Res. CL2	Plastic	Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment
YAT-YGWC-23S	WG	G						6		X	X	X	X	X	See Remarks
YAT-YAMW-1	WG	G	2/23/24	0920	—	—		6		X	X	X	X	X	See Remarks 019
YAT-AMA-R6-FD-1	WG	G	2/23/24	—	—	—		6		X	X	X	X	X	See Remarks 020
YAT-YGWC-36A	WG	G	2/23/24	1424	—	—		6		X	X	X	X	X	See Remarks 021
YAT-YGWC-49	WG	G						6		X	X	X	X	X	See Remarks
YAT-YGWC-38	WG	G						6		X	X	X	X	X	See Remarks
YAT-YGWC-24SB	WG	G	2/23/24	1308	—	—		6		X	X	X	X	X	022
YAT-YGWC-41	WG	G						6		X	X	X	X	X	See Remarks
YAT-YGWC-42	WG	G						6		X	X	X	X	X	See Remarks
YAT-YGWC-43	WG	G						6		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): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

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

Additional Instructions from Pace®:
Coolers: | Thermometer ID: | Correction Factor (°C): | Obs. Temp. (°C) | Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time	Received by/Company: (Signature)	Date/Time
/ARCADIS	2/23/24 1000	Jessica Ware /Arcadis	2/23/24 1600
Jessica Ware /Arcadis	2/24/24 1133	MAW	2/24/24 1133

Tracking Number:
Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other
Page: 1 of 2

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

CHAIN-OF-CUSTODY Analytical Request Document

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Company Name:	Southern Company	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2024S1	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', R6		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

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

County / State origin of sample(s): Georgia

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

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

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

DW PWSID # or WW Permit # as applicable:

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

Analysis:

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

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

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment
YAT-YAMW-2	WG	G						6		X	X	X	X	X	See Remarks
YAT-YAMW-3	WG	G						6		X	X	X	X	X	See Remarks
YAT-YAMW-4	WG	G						6		X	X	X	X	X	See Remarks
YAT-YAMW-5	WG	G						6		X	X	X	X	X	See Remarks
YAT-PZ-37	WG	G						6		X	X	X	X	X	See Remarks
YAT-PZ-35	WG	G	2/23/24	1110	—	—		6		X	X	X	X	X	See Remarks SG3
YAT-PZ-37D	WG	G						6		X	X	X	X	X	See Remarks
YAT-PZ-51	WG	G						6		X	X	X	X	X	See Remarks
YAT-PZ-52D	WG	G						6		X	X	X	X	X	See Remarks
YAT-YGWC-50	WG	G						6		X	X	X	X	X	See Remarks

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

Preservation non-conformance identified for sample:

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

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

Additional Instructions from Pace®:

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

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
ARCADIS	2/23/24 1600	Arcadis	2/23/24 1600	
Arcadis	2/24/24 1133		2/24/24 1133	Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other
				Page: 2 of 2

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ENV-FRM-CORQ-0019_v01_082123 ©

SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier	Reason for Validation Qualifier
92705140	YAT-YGWC-50	SW846 6020B	Arsenic	0.0050	mg/L	UB	Blank contamination
	YAT-AMA-R6-FD-1	SW846 6020B	Arsenic	0.0050	mg/L	UB	Blank contamination
92705142	No qualifiers assigned						
92715031	YAT-YAMW-3	SW846 6020B	Arsenic	0.0050	mg/L	UB	Blank contamination
	YAT-PZ-37	SW846 6020B	Arsenic	0.0050	mg/L	UB	Blank contamination
	YAT-PZ-37D	SW846 6020B	Arsenic	0.0050	mg/L	UB	Blank contamination
	YAT-PZ-52D	SW846 6020B	Arsenic	0.0050	mg/L	UB	Blank contamination
	YAT-YGWC-42	SW846 6020B	Arsenic	0.0050	mg/L	UB	Blank contamination
	YAT-YAMW-4	SW846 6020B	Arsenic	0.0050	mg/L	UB	Blank contamination
	YAT-YAMW-5	SW846 6020B	Arsenic	0.0050	mg/L	UB	Blank contamination
	YAT-YGWC-43	SM2320B	Alkalinity, Total	35.5	mg/L	J	MS %R, MSD %R
	YAT-YGWC-50	SW846 6020B	Antimony	0.0030	mg/L	UB	Blank contamination
			Arsenic	0.0050	mg/L	UB	Blank contamination
	YAT-YAMW-1	SW846 6020B	Antimony	0.0030	mg/L	UB	Blank contamination
	YAT-AMA-R6-FD-1	SW846 6020B	Antimony	0.0030	mg/L	UB	Blank contamination
92715057	No qualifiers assigned						

Abbreviations:

%R = percent recovery

mg/L = milligrams per liter

MS = matrix spike

MSD = matrix spike duplicate

Qualifiers:

J = estimated result

UB = not detected due to blank contamination

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

January 09, 2024

Lauren Hartley
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92705140

Dear Lauren Hartley:

Enclosed are the analytical results for sample(s) received by the laboratory on December 21, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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
Becky Steever, Arcadis
Jessica Ware, Arcadis
Albert Zumbuhl, Arcadis

REPORT OF LABORATORY ANALYSIS

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

CERTIFICATIONS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92705140

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

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92705140

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92705140001	**YAT-YGWC-50**	Water	12/20/23 13:39	12/21/23 10:03
92705140002	**YAT-AMA-R6-FB-1**	Water	12/20/23 14:30	12/21/23 10:03
92705140003	**YAT-AMA-R6-EB-1**	Water	12/20/23 14:40	12/21/23 10:03
92705140004	**YAT-AMA-R6-FD-1**	Water	12/20/23 00:00	12/21/23 10:03

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SAMPLE ANALYTE COUNT

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92705140

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92705140001	**YAT-YGWC-50**	EPA 6010D	DRB	1
		EPA 6020B	CW1, MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	JAY	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92705140002	**YAT-AMA-R6-FB-1**	EPA 6010D	DRB	1
		EPA 6020B	CW1, MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	JAY	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92705140003	**YAT-AMA-R6-EB-1**	EPA 6010D	DRB	1
		EPA 6020B	CW1, MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	JAY	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92705140004	**YAT-AMA-R6-FD-1**	EPA 6010D	DRB	1
		EPA 6020B	CW1, MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	JAY	1
		EPA 300.0 Rev 2.1 1993	CDC	3

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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SUMMARY OF DETECTION

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92705140

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92705140001	**YAT-YGWC-50**					
EPA 6010D	Calcium	272	mg/L	1.0	01/05/24 23:34	
EPA 6020B	Arsenic	0.0019J	mg/L	0.0050	01/05/24 20:13	B
EPA 6020B	Barium	0.020	mg/L	0.0050	01/05/24 20:13	
EPA 6020B	Beryllium	0.0051	mg/L	0.00050	01/05/24 20:13	
EPA 6020B	Boron	20.8	mg/L	0.40	01/08/24 16:30	
EPA 6020B	Cadmium	0.012	mg/L	0.00050	01/05/24 20:13	
EPA 6020B	Cobalt	0.0052	mg/L	0.0050	01/05/24 20:13	
EPA 6020B	Lead	0.00030J	mg/L	0.0010	01/05/24 20:13	
EPA 6020B	Lithium	0.0035J	mg/L	0.030	01/05/24 20:13	
EPA 6020B	Selenium	0.0015J	mg/L	0.0050	01/05/24 20:13	
SM 2540C-2015	Total Dissolved Solids	1930	mg/L	50.0	12/22/23 10:36	
EPA 300.0 Rev 2.1 1993	Chloride	9.8	mg/L	1.0	12/22/23 05:43	
EPA 300.0 Rev 2.1 1993	Fluoride	0.14	mg/L	0.10	12/22/23 05:43	
EPA 300.0 Rev 2.1 1993	Sulfate	1180	mg/L	24.0	12/22/23 08:00	
92705140002	**YAT-AMA-R6-FB-1**					
EPA 6020B	Boron	0.026J	mg/L	0.040	01/08/24 16:22	
92705140004	**YAT-AMA-R6-FD-1**					
EPA 6010D	Calcium	263	mg/L	1.0	01/05/24 23:49	
EPA 6020B	Arsenic	0.0017J	mg/L	0.0050	01/05/24 20:26	B
EPA 6020B	Barium	0.020	mg/L	0.0050	01/05/24 20:26	
EPA 6020B	Beryllium	0.0047	mg/L	0.00050	01/05/24 20:26	
EPA 6020B	Boron	20.7	mg/L	0.40	01/08/24 16:33	
EPA 6020B	Cadmium	0.011	mg/L	0.00050	01/05/24 20:26	
EPA 6020B	Cobalt	0.0057	mg/L	0.0050	01/05/24 20:26	
EPA 6020B	Lead	0.00029J	mg/L	0.0010	01/05/24 20:26	
EPA 6020B	Lithium	0.0034J	mg/L	0.030	01/05/24 20:26	
EPA 6020B	Selenium	0.0014J	mg/L	0.0050	01/05/24 20:26	
SM 2540C-2015	Total Dissolved Solids	1890	mg/L	50.0	12/22/23 10:38	
EPA 300.0 Rev 2.1 1993	Chloride	9.8	mg/L	1.0	12/22/23 05:58	
EPA 300.0 Rev 2.1 1993	Fluoride	0.15	mg/L	0.10	12/22/23 05:58	
EPA 300.0 Rev 2.1 1993	Sulfate	1180	mg/L	24.0	12/22/23 08:15	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92705140

Sample: YAT-YGWC-50 **Lab ID: 92705140001** Collected: 12/20/23 13:39 Received: 12/21/23 10:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**272**	mg/L	1.0	0.12	1	01/04/24 09:13	01/05/24 23:34	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	01/05/24 12:23	01/05/24 20:13	7440-36-0	
Arsenic	**0.0019J**	mg/L	0.0050	0.00084	1	01/05/24 12:23	01/05/24 20:13	7440-38-2	B
Barium	**0.020**	mg/L	0.0050	0.00047	1	01/05/24 12:23	01/05/24 20:13	7440-39-3	
Beryllium	**0.0051**	mg/L	0.00050	0.000094	1	01/05/24 12:23	01/05/24 20:13	7440-41-7	
Boron	**20.8**	mg/L	0.40	0.12	10	01/05/24 12:23	01/08/24 16:30	7440-42-8	
Cadmium	**0.012**	mg/L	0.00050	0.00010	1	01/05/24 12:23	01/05/24 20:13	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	01/05/24 12:23	01/05/24 20:13	7440-47-3	
Cobalt	**0.0052**	mg/L	0.0050	0.00032	1	01/05/24 12:23	01/05/24 20:13	7440-48-4	
Lead	**0.00030J**	mg/L	0.0010	0.00016	1	01/05/24 12:23	01/05/24 20:13	7439-92-1	
Lithium	**0.0035J**	mg/L	0.030	0.0016	1	01/05/24 12:23	01/05/24 20:13	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	01/05/24 12:23	01/05/24 20:13	7439-98-7	
Selenium	**0.0015J**	mg/L	0.0050	0.00096	1	01/05/24 12:23	01/05/24 20:13	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	01/05/24 12:23	01/05/24 20:13	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	01/04/24 10:00	01/04/24 15:44	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**1930**	mg/L	50.0	50.0	1		12/22/23 10:36		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**9.8**	mg/L	1.0	0.60	1		12/22/23 05:43	16887-00-6	
Fluoride	**0.14**	mg/L	0.10	0.050	1		12/22/23 05:43	16984-48-8	
Sulfate	**1180**	mg/L	24.0	12.0	24		12/22/23 08:00	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92705140

Sample: YAT-AMA-R6-FB-1 **Lab ID: 92705140002** Collected: 12/20/23 14:30 Received: 12/21/23 10:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.12	1	01/04/24 09:13	01/05/24 23:39	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	01/05/24 12:23	01/05/24 20:17	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	01/05/24 12:23	01/05/24 20:17	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	01/05/24 12:23	01/05/24 20:17	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	01/05/24 12:23	01/05/24 20:17	7440-41-7	
Boron	**0.026J**	mg/L	0.040	0.012	1	01/05/24 12:23	01/08/24 16:22	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	01/05/24 12:23	01/05/24 20:17	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	01/05/24 12:23	01/05/24 20:17	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	01/05/24 12:23	01/05/24 20:17	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	01/05/24 12:23	01/05/24 20:17	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	01/05/24 12:23	01/05/24 20:17	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	01/05/24 12:23	01/05/24 20:17	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	01/05/24 12:23	01/05/24 20:17	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	01/05/24 12:23	01/05/24 20:17	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	01/04/24 10:00	01/04/24 15:46	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		12/22/23 10:37		
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		12/21/23 23:05	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		12/21/23 23:05	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		12/21/23 23:05	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92705140

Sample: YAT-AMA-R6-EB-1 **Lab ID: 92705140003** Collected: 12/20/23 14:40 Received: 12/21/23 10:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.12	1	01/04/24 09:13	01/05/24 23:44	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	01/05/24 12:23	01/05/24 20:22	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	01/05/24 12:23	01/05/24 20:22	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	01/05/24 12:23	01/05/24 20:22	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	01/05/24 12:23	01/05/24 20:22	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	01/05/24 12:23	01/08/24 16:26	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	01/05/24 12:23	01/05/24 20:22	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	01/05/24 12:23	01/05/24 20:22	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	01/05/24 12:23	01/05/24 20:22	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	01/05/24 12:23	01/05/24 20:22	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	01/05/24 12:23	01/05/24 20:22	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	01/05/24 12:23	01/05/24 20:22	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	01/05/24 12:23	01/05/24 20:22	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	01/05/24 12:23	01/05/24 20:22	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	01/04/24 10:00	01/04/24 15:49	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		12/22/23 10:38		
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		12/21/23 23:20	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		12/21/23 23:20	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		12/21/23 23:20	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(704)875-9092

ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92705140

Sample: YAT-AMA-R6-FD-1 **Lab ID: 92705140004** Collected: 12/20/23 00:00 Received: 12/21/23 10:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**263**	mg/L	1.0	0.12	1	01/04/24 09:13	01/05/24 23:49	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	01/05/24 12:23	01/05/24 20:26	7440-36-0	
Arsenic	**0.0017J**	mg/L	0.0050	0.00084	1	01/05/24 12:23	01/05/24 20:26	7440-38-2	B
Barium	**0.020**	mg/L	0.0050	0.00047	1	01/05/24 12:23	01/05/24 20:26	7440-39-3	
Beryllium	**0.0047**	mg/L	0.00050	0.000094	1	01/05/24 12:23	01/05/24 20:26	7440-41-7	
Boron	**20.7**	mg/L	0.40	0.12	10	01/05/24 12:23	01/08/24 16:33	7440-42-8	
Cadmium	**0.011**	mg/L	0.00050	0.00010	1	01/05/24 12:23	01/05/24 20:26	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	01/05/24 12:23	01/05/24 20:26	7440-47-3	
Cobalt	**0.0057**	mg/L	0.0050	0.00032	1	01/05/24 12:23	01/05/24 20:26	7440-48-4	
Lead	**0.00029J**	mg/L	0.0010	0.00016	1	01/05/24 12:23	01/05/24 20:26	7439-92-1	
Lithium	**0.0034J**	mg/L	0.030	0.0016	1	01/05/24 12:23	01/05/24 20:26	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	01/05/24 12:23	01/05/24 20:26	7439-98-7	
Selenium	**0.0014J**	mg/L	0.0050	0.00096	1	01/05/24 12:23	01/05/24 20:26	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	01/05/24 12:23	01/05/24 20:26	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	01/04/24 10:00	01/04/24 15:51	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**1890**	mg/L	50.0	50.0	1		12/22/23 10:38		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**9.8**	mg/L	1.0	0.60	1		12/22/23 05:58	16887-00-6	
Fluoride	**0.15**	mg/L	0.10	0.050	1		12/22/23 05:58	16984-48-8	
Sulfate	**1180**	mg/L	24.0	12.0	24		12/22/23 08:15	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92705140

QC Batch: 823226
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92705140001, 92705140002, 92705140003, 92705140004

METHOD BLANK: 4258879 Matrix: Water
Associated Lab Samples: 92705140001, 92705140002, 92705140003, 92705140004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	01/05/24 21:33	

LABORATORY CONTROL SAMPLE: 4258880

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.96J	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4258881 4258882

Parameter	Units	92704064032 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	32400 ug/L	1	1	33.6	33.6	115	115	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92705140

QC Batch: 823556
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92705140001, 92705140002, 92705140003, 92705140004

METHOD BLANK: 4260430 Matrix: Water
Associated Lab Samples: 92705140001, 92705140002, 92705140003, 92705140004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	01/05/24 18:34	
Arsenic	mg/L	0.00088J	0.0050	0.00084	01/05/24 18:34	
Barium	mg/L	ND	0.0050	0.00047	01/05/24 18:34	
Beryllium	mg/L	ND	0.00050	0.000094	01/05/24 18:34	
Boron	mg/L	ND	0.040	0.012	01/08/24 16:11	
Cadmium	mg/L	ND	0.00050	0.00010	01/05/24 18:34	
Chromium	mg/L	ND	0.0050	0.0019	01/05/24 18:34	
Cobalt	mg/L	ND	0.0050	0.00032	01/05/24 18:34	
Lead	mg/L	ND	0.0010	0.00016	01/05/24 18:34	
Lithium	mg/L	ND	0.030	0.0016	01/05/24 18:34	
Molybdenum	mg/L	ND	0.010	0.00062	01/05/24 18:34	
Selenium	mg/L	ND	0.0050	0.00096	01/05/24 18:34	
Thallium	mg/L	ND	0.0010	0.00038	01/05/24 18:34	

LABORATORY CONTROL SAMPLE: 4260431

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	102	80-120	
Arsenic	mg/L	0.1	0.099	99	80-120	
Barium	mg/L	0.1	0.10	102	80-120	
Beryllium	mg/L	0.1	0.11	106	80-120	
Boron	mg/L	1	1.1	113	80-120	
Cadmium	mg/L	0.1	0.099	99	80-120	
Chromium	mg/L	0.1	0.10	102	80-120	
Cobalt	mg/L	0.1	0.10	103	80-120	
Lead	mg/L	0.1	0.11	105	80-120	
Lithium	mg/L	0.1	0.11	111	80-120	
Molybdenum	mg/L	0.1	0.10	102	80-120	
Selenium	mg/L	0.1	0.10	101	80-120	
Thallium	mg/L	0.1	0.10	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4260432 4260433

Parameter	Units	92704469006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	101	101	75-125	0	20	
Arsenic	mg/L	2.2J ug/L	0.1	0.1	0.10	0.10	102	100	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92705140

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4260432 4260433

Parameter	Units	92704469006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	91.7J ug/L	0.1	0.1	0.19	0.19	97	96	75-125	0	20	
Beryllium	mg/L	0.13J ug/L	0.1	0.1	0.11	0.10	105	102	75-125	3	20	
Boron	mg/L	9610 ug/L	1	1	11.2	11.0	162	136	75-125	2	20	M1
Cadmium	mg/L	0.65J ug/L	0.1	0.1	0.10	0.10	100	99	75-125	1	20	
Chromium	mg/L	3.1J ug/L	0.1	0.1	0.11	0.11	108	106	75-125	2	20	
Cobalt	mg/L	3.2J ug/L	0.1	0.1	0.11	0.11	104	103	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.10	0.10	101	100	75-125	2	20	
Lithium	mg/L	ND	0.1	0.1	0.11	0.11	107	107	75-125	0	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	104	104	75-125	0	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	102	100	75-125	2	20	
Thallium	mg/L	ND	0.1	0.1	0.10	0.097	102	97	75-125	4	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92705140

QC Batch: 823371
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92705140001, 92705140002, 92705140003, 92705140004

METHOD BLANK: 4259406 Matrix: Water
Associated Lab Samples: 92705140001, 92705140002, 92705140003, 92705140004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	01/04/24 14:40	

LABORATORY CONTROL SAMPLE: 4259407

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: 4259408 4259409

Parameter	Units	92704887001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0024	0.0024	95	95	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92705140

QC Batch: 821398
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: 92705140001, 92705140002, 92705140003, 92705140004

METHOD BLANK: 4251194 Matrix: Water
Associated Lab Samples: 92705140001, 92705140002, 92705140003, 92705140004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	12/22/23 10:36	

LABORATORY CONTROL SAMPLE: 4251195

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	262	105	90-110	

SAMPLE DUPLICATE: 4251341

Parameter	Units	92705156001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	61.0	56.0	9	25	

SAMPLE DUPLICATE: 4251342

Parameter	Units	92705282001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	269	269	0	25	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92705140

QC Batch: 821338
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: 92705140001, 92705140002, 92705140003, 92705140004

METHOD BLANK: 4251000 Matrix: Water
Associated Lab Samples: 92705140001, 92705140002, 92705140003, 92705140004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	12/21/23 22:34	
Fluoride	mg/L	ND	0.10	0.050	12/21/23 22:34	
Sulfate	mg/L	ND	1.0	0.50	12/21/23 22:34	

LABORATORY CONTROL SAMPLE: 4251001

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	52.6	105	90-110	
Fluoride	mg/L	2.5	2.6	105	90-110	
Sulfate	mg/L	50	52.8	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4251002 4251003

Parameter	Units	92705244001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	88.5	50	50	129	131	81	85	90-110	1	10	M1
Fluoride	mg/L	0.37	2.5	2.5	2.1	2.1	69	71	90-110	2	10	M1
Sulfate	mg/L	ND	50	50	53.5	54.8	105	108	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4251054 4251055

Parameter	Units	92704887004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1.9	50	50	53.3	54.8	103	106	90-110	3	10	
Fluoride	mg/L	1.9	2.5	2.5	4.4	4.4	97	100	90-110	2	10	
Sulfate	mg/L	50.7	50	50	93.8	95.0	86	88	90-110	1	10	M1

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REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92705140

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

B	Analyte was detected in the associated method blank.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92705140

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92705140001	**YAT-YGWC-50**	EPA 3010A	823226	EPA 6010D	823425
92705140002	**YAT-AMA-R6-FB-1**	EPA 3010A	823226	EPA 6010D	823425
92705140003	**YAT-AMA-R6-EB-1**	EPA 3010A	823226	EPA 6010D	823425
92705140004	**YAT-AMA-R6-FD-1**	EPA 3010A	823226	EPA 6010D	823425
92705140001	**YAT-YGWC-50**	EPA 3005A	823556	EPA 6020B	823828
92705140002	**YAT-AMA-R6-FB-1**	EPA 3005A	823556	EPA 6020B	823828
92705140003	**YAT-AMA-R6-EB-1**	EPA 3005A	823556	EPA 6020B	823828
92705140004	**YAT-AMA-R6-FD-1**	EPA 3005A	823556	EPA 6020B	823828
92705140001	**YAT-YGWC-50**	EPA 7470A	823371	EPA 7470A	823453
92705140002	**YAT-AMA-R6-FB-1**	EPA 7470A	823371	EPA 7470A	823453
92705140003	**YAT-AMA-R6-EB-1**	EPA 7470A	823371	EPA 7470A	823453
92705140004	**YAT-AMA-R6-FD-1**	EPA 7470A	823371	EPA 7470A	823453
92705140001	**YAT-YGWC-50**	SM 2540C-2015	821398		
92705140002	**YAT-AMA-R6-FB-1**	SM 2540C-2015	821398		
92705140003	**YAT-AMA-R6-EB-1**	SM 2540C-2015	821398		
92705140004	**YAT-AMA-R6-FD-1**	SM 2540C-2015	821398		
92705140001	**YAT-YGWC-50**	EPA 300.0 Rev 2.1 1993	821338		
92705140002	**YAT-AMA-R6-FB-1**	EPA 300.0 Rev 2.1 1993	821338		
92705140003	**YAT-AMA-R6-EB-1**	EPA 300.0 Rev 2.1 1993	821338		
92705140004	**YAT-AMA-R6-FD-1**	EPA 300.0 Rev 2.1 1993	821338		

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:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-OTH-20231220	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable)	YAT AP-3, A, B/B', R6	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

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

County / State origin of sample(s): Georgia

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

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

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

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

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

Analysis:

Specify Container Size **: 3 3 2 1

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

Analysis Requested

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

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

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

Preservation non-conformance identified for sample

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

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment
YAT-YGWC-50	WG	G	12/20/23	1339	--	--		5		X	X	X	X	See Remarks
YAT-AMA-R6-FB-1	WG	G	12/20/23	1430	--	--		5		X	X	X	X	See Remarks
YAT-AMA-R6-EB-1	WG	G	12/20/23	1440	--	--		5		X	X	X	X	See Remarks
YAT-AMA-R6-FD-1	WG	G	12/20/23	-	--	--		5		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; 7040A: Hg

Collected By:
Printed Name: (Arcadis) Auguste Parrinello
Signature (Arcadis)

Additional instructions from Pace®:

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

Relinquished by/Company: (Signature)	1003 12/21/23	Date/Time	Received by/Company: (Signature) Pace	Date/Time 12/21/23 1003	Tracking Number:
Relinquished by/Company: (Signature)		Date/Time	Received by/Company: (Signature)	Date/Time	Delivered by: [ ] In- Person [ ] Courier
Relinquished by/Company: (Signature)		Date/Time	Received by/Company: (Signature)	Date/Time	[ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)		Date/Time	Received by/Company: (Signature)	Date/Time	Page: of

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Southern Company

Project #:

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

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

Date/Initials Person Examining Contents: SG 12/21/23

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

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

Thermometer: ☑ IR Gun ID: 214

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 1.0 **Correction Factor:** Add/Subtract (°C) -0.1

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 0.9

USDA Regulated Soil (☐ N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: **Date:**

Project Manager SRF Review: **Date:**

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

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

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

*****Check all unpreserved Nitrates for chlorine**

Project #

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)	BPN	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1			1 ✓																		2				
2		1	1			1 ✓																		2				
3		1	1			1 ✓																		2				
4		1	1			1 ✓																		2				
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

pH Adjustment Log for Preserved Samples

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

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. incorrect preservative, out of temp, incorrect containers.

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

January 17, 2024

Lauren Hartley
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: YAT AP-3, A, B/8', R6- RADs
Pace Project No.: 92705142

Dear Lauren Hartley:

Enclosed are the analytical results for sample(s) received by the laboratory on December 21, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Greensburg

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

Sincerely,

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

Enclosures

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

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

CERTIFICATIONS

Project: YAT AP-3, A, B/8', R6- RADs
Pace Project No.: 92705142

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

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SAMPLE SUMMARY

Project: YAT AP-3, A, B/8', R6- RADs
Pace Project No.: 92705142

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92705142001	**YAT-YGWC-50**	Water	12/20/23 13:39	12/21/23 10:03
92705142002	**YAT-AMA-R6-FB-1**	Water	12/20/23 14:30	12/21/23 10:03
92705142003	**YAT-AMA-R6-EB-1**	Water	12/20/23 14:40	12/21/23 10:03
92705142004	**YAT-AMA-R6-FD-1**	Water	12/20/23 00:00	12/21/23 10:03

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: YAT AP-3, A, B/8', R6- RADs
Pace Project No.: 92705142

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92705142001	**YAT-YGWC-50**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92705142002	**YAT-AMA-R6-FB-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92705142003	**YAT-AMA-R6-EB-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92705142004	**YAT-AMA-R6-FD-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(704)875-9092

SUMMARY OF DETECTION

Project: YAT AP-3, A, B/8', R6- RADs
Pace Project No.: 92705142

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92705142001	**YAT-YGWC-50**					
EPA 9315	Radium-226	0.284U ± 0.214 (0.376) C:96% T:NA	pCi/L		01/11/24 11:37	
EPA 9320	Radium-228	0.193U ± 0.268 (0.573) C:83% T:87%	pCi/L		01/09/24 12:33	
Total Radium Calculation	Total Radium	0.477U ± 0.482 (0.949)	pCi/L		01/12/24 11:12	
92705142002	**YAT-AMA-R6-FB-1**					
EPA 9315	Radium-226	0.126U ± 0.178 (0.385) C:94% T:NA	pCi/L		01/11/24 11:37	
EPA 9320	Radium-228	0.140U ± 0.283 (0.625) C:84% T:86%	pCi/L		01/09/24 12:33	
Total Radium Calculation	Total Radium	0.266U ± 0.461 (1.01)	pCi/L		01/12/24 11:12	
92705142003	**YAT-AMA-R6-EB-1**					
EPA 9315	Radium-226	-0.110U ± 0.116 (0.401) C:94% T:NA	pCi/L		01/11/24 11:37	
EPA 9320	Radium-228	0.364U ± 0.293 (0.574) C:82% T:88%	pCi/L		01/09/24 12:33	
Total Radium Calculation	Total Radium	0.364U ± 0.409 (0.975)	pCi/L		01/12/24 11:12	
92705142004	**YAT-AMA-R6-FD-1**					
EPA 9315	Radium-226	0.267U ± 0.189 (0.302) C:98% T:NA	pCi/L		01/11/24 11:37	
EPA 9320	Radium-228	0.0606U ± 0.319 (0.730) C:79% T:80%	pCi/L		01/09/24 12:33	
Total Radium Calculation	Total Radium	0.328U ± 0.508 (1.03)	pCi/L		01/12/24 11:12	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/8', R6- RADs
Pace Project No.: 92705142

Sample: YAT-YGWC-50 **Lab ID: 92705142001** Collected: 12/20/23 13:39 Received: 12/21/23 10:03 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	**0.284U ± 0.214 (0.376) C:96% T:NA**	pCi/L	01/11/24 11:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.193U ± 0.268 (0.573) C:83% T:87%**	pCi/L	01/09/24 12:33	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.477U ± 0.482 (0.949)**	pCi/L	01/12/24 11:12	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/8', R6- RADs
Pace Project No.: 92705142

Sample: YAT-AMA-R6-FB-1 **Lab ID: 92705142002** Collected: 12/20/23 14:30 Received: 12/21/23 10:03 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.126U ± 0.178 (0.385) C:94% T:NA**	pCi/L	01/11/24 11:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.140U ± 0.283 (0.625) C:84% T:86%**	pCi/L	01/09/24 12:33	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.266U ± 0.461 (1.01)**	pCi/L	01/12/24 11:12	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/8', R6- RADs
Pace Project No.: 92705142

Sample: YAT-AMA-R6-EB-1 **Lab ID: 92705142003** Collected: 12/20/23 14:40 Received: 12/21/23 10:03 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	**-0.110U ± 0.116 (0.401) C:94% T:NA**	pCi/L	01/11/24 11:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.364U ± 0.293 (0.574) C:82% T:88%**	pCi/L	01/09/24 12:33	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.364U ± 0.409 (0.975)**	pCi/L	01/12/24 11:12	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/8', R6- RADs
Pace Project No.: 92705142

Sample: YAT-AMA-R6-FD-1 **Lab ID: 92705142004** Collected: 12/20/23 00:00 Received: 12/21/23 10:03 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	**0.267U ± 0.189 (0.302) C:98% T:NA**	pCi/L	01/11/24 11:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.0606U ± 0.319 (0.730) C:79% T:80%**	pCi/L	01/09/24 12:33	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.328U ± 0.508 (1.03)**	pCi/L	01/12/24 11:12	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(704)875-9092

QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT AP-3, A, B/8', R6- RADs
Pace Project No.: 92705142

QC Batch: 640063
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92705142001, 92705142002, 92705142003, 92705142004

METHOD BLANK: 3120561 Matrix: Water
Associated Lab Samples: 92705142001, 92705142002, 92705142003, 92705142004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.149 ± 0.184 (0.387) C:98% T:NA	pCi/L	01/11/24 11:37	

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

Pace Analytical Services, LLC
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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT AP-3, A, B/8', R6- RADs
Pace Project No.: 92705142

QC Batch: 640064
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92705142001, 92705142002, 92705142003, 92705142004

METHOD BLANK: 3120562 Matrix: Water
Associated Lab Samples: 92705142001, 92705142002, 92705142003, 92705142004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.589 ± 0.342 (0.626) C:84% T:87%	pCi/L	01/09/24 12:33	

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

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

QUALIFIERS

Project: YAT AP-3, A, B/8', R6- RADs
Pace Project No.: 92705142

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.

Pace Analytical Services, LLC
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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT AP-3, A, B/8', R6- RADs
Pace Project No.: 92705142

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92705142001	**YAT-YGWC-50**	EPA 9315	640063		
92705142002	**YAT-AMA-R6-FB-1**	EPA 9315	640063		
92705142003	**YAT-AMA-R6-EB-1**	EPA 9315	640063		
92705142004	**YAT-AMA-R6-FD-1**	EPA 9315	640063		
92705142001	**YAT-YGWC-50**	EPA 9320	640064		
92705142002	**YAT-AMA-R6-FB-1**	EPA 9320	640064		
92705142003	**YAT-AMA-R6-EB-1**	EPA 9320	640064		
92705142004	**YAT-AMA-R6-FD-1**	EPA 9320	640064		
92705142001	**YAT-YGWC-50**	Total Radium Calculation	641879		
92705142002	**YAT-AMA-R6-FB-1**	Total Radium Calculation	641879		
92705142003	**YAT-AMA-R6-EB-1**	Total Radium Calculation	641879		
92705142004	**YAT-AMA-R6-FD-1**	Total Radium Calculation	641879		

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:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-OTH-20231220	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable)	YAT AP-3, A, B/B', R6	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

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

County / State origin of sample(s): Georgia

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

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

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

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

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

Analysis:

Specify Container Size **: 3 3 2 1

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

Analysis Requested

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

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

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

Preservation non-conformance identified for sample

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

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment
YAT-YGWC-50	WG	G	12/20/23	1339	--	--		5		X	X	X	X	See Remarks
YAT-AMA-R6-FB-1	WG	G	12/20/23	1430	--	--		5		X	X	X	X	See Remarks
YAT-AMA-R6-EB-1	WG	G	12/20/23	1440	--	--		5		X	X	X	X	See Remarks
YAT-AMA-R6-FD-1	WG	G	12/20/23	-	--	--		5		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; 7040A: Hg

Collected By:
Printed Name: (Arcadis) Auguste Parrinello
Signature (Arcadis)

Additional instructions from Pace®:

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

Relinquished by/Company: (Signature) 1003 12/21/23	Date/Time	Received by/Company: (Signature) - Pace	Date/Time 12/21/23 1003	Tracking Number:
Relinquished by/Company: (Signature)	Date/Time	Received by/Company: (Signature)	Date/Time	Delivered by: [ ] In- Person [ ] Courier
Relinquished by/Company: (Signature)	Date/Time	Received by/Company: (Signature)	Date/Time	[ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time	Received by/Company: (Signature)	Date/Time	Page: of

DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt

Effective Date: 11/29/2023

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Southern Company

Project #:

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

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

Date/Initials Person Examining Contents: SG 12/21/23

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

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

Thermometer: ☑ IR Gun ID: 214

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 1.0 **Correction Factor:** Add/Subtract (°C) -0.1

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 0.9

USDA Regulated Soil (☐ N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: **Date:**

Project Manager SRF Review: **Date:**

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

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

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

*****Check all unpreserved Nitrates for chlorine**

Project #

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)	BPN	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1			1																		2				
2		1	1			1																		2				
3		1	1			1																		2				
4		1	1			1																		2				
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

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

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. incorrect preservative, out of temp, incorrect containers.

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	JJS1
Date:	1/5/2024
Worklist:	77111
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3120562
MB concentration:	0.589
M/B 2 Sigma CSU:	0.342
MB MDC:	0.626
MB Numerical Performance Indicator:	3.37
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS77111	LCSD77111
Count Date:	1/9/2024	1/9/2024
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	38.319	38.319
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.815	0.817
Target Conc. (pCi/L, g, F):	4.700	4.689
Uncertainty (Calculated):	0.230	0.230
Result (pCi/L, g, F):	3.854	2.986
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.908	0.744
Numerical Performance Indicator:	-1.77	-4.29
Percent Recovery:	81.99%	63.68%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

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

Duplicate Sample Assessment		Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Sample I.D.:	LCS77111	
Duplicate Sample I.D.	LCSD77111	
Sample Result (pCi/L, g, F):	3.854	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.908	
Sample Duplicate Result (pCi/L, g, F):	2.986	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.744	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	1.448	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	25.13%	
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 then ten times the blank value, the blank is acceptable; otherwise this batch must be re-prepped.~~

MB activity results < MDC
Pass

MRH 1-10-24

VAL 1/10/24

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	1/9/2024
Worklist:	77110
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3120561
MB concentration:	0.149
M/B 2 Sigma CSU:	0.184
MB MDC:	0.387
MB Numerical Performance Indicator:	1.58
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS77110	LCSD77110
Count Date:	1/11/2024	1/11/2024
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.027	25.027
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.508	0.505
Target Conc. (pCi/L, g, F):	4.930	4.958
Uncertainty (Calculated):	0.232	0.233
Result (pCi/L, g, F):	5.456	4.993
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.052	0.980
Numerical Performance Indicator:	0.96	0.07
Percent Recovery:	110.66%	100.70%
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.:	LCS77110	
Duplicate Sample I.D.	LCSD77110	
Sample Result (pCi/L, g, F):	5.456	
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.052	
Sample Duplicate Result (pCi/L, g, F):	4.993	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.980	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.631	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	9.43%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	N/A	
% RPD Limit:	25%	

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

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

Comments:

LAM 1/11/24

MRH
1-11-24

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

March 11, 2024

Lauren Hartley
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

Dear Lauren Hartley:

Enclosed are the analytical results for sample(s) received by the laboratory between February 22, 2024 and February 24, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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
Becky Steever, Arcadis
Jessica Ware, Arcadis
Albert Zumbuhl, Arcadis

Pace Analytical Services, LLC
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CERTIFICATIONS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

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

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92715031001	**YAT-YGWC-23S**	Water	02/21/24 16:37	02/22/24 09:03
92715031002	**YAT-YGWC-49**	Water	02/21/24 17:25	02/22/24 09:03
92715031003	**YAT-YAMW-3**	Water	02/21/24 12:02	02/22/24 09:03
92715031004	**YAT-PZ-37**	Water	02/21/24 09:54	02/22/24 09:03
92715031005	**YAT-PZ-37D**	Water	02/21/24 14:13	02/22/24 09:03
92715031006	**YAT-PZ-52D**	Water	02/21/24 10:58	02/22/24 09:03
92715031007	**YAT-YGWC-38**	Water	02/22/24 09:48	02/23/24 09:18
92715031008	**YAT-YGWC-41**	Water	02/22/24 15:33	02/23/24 09:18
92715031009	**YAT-YGWC-42**	Water	02/22/24 17:08	02/23/24 09:18
92715031010	**YAT-YAMW-2**	Water	02/22/24 12:20	02/23/24 09:18
92715031011	**YAT-YAMW-4**	Water	02/22/24 13:52	02/23/24 09:18
92715031012	**YAT-YAMW-5**	Water	02/22/24 11:15	02/23/24 09:18
92715031013	**YAT-AMA-R6-EB-1**	Water	02/22/24 14:40	02/23/24 09:18
92715031014	**YAT-AMA-R6-FB-1**	Water	02/22/24 11:25	02/23/24 09:18
92715031015	**YAT-YGWC-43**	Water	02/22/24 16:51	02/23/24 09:18
92715031016	**YAT-PZ-51**	Water	02/22/24 17:30	02/23/24 09:18
92715031017	**YAT-YGWC-50**	Water	02/22/24 10:20	02/23/24 09:18
92715031018	**YAT-PZ-55**	Water	02/22/24 14:39	02/23/24 09:18
92715031019	**YAT-YAMW-1**	Water	02/23/24 09:20	02/24/24 11:33
92715031020	**YAT-AMA-R6-FD-1**	Water	02/23/24 00:00	02/24/24 11:33
92715031021	**YAT-YGWC-36A**	Water	02/23/24 14:24	02/24/24 11:33
92715031022	**YAT-YGWC-24SB**	Water	02/23/24 13:08	02/24/24 11:33
92715031023	**YAT-PZ-35**	Water	02/23/24 11:10	02/24/24 11:33

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92715031001	**YAT-YGWC-23S**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92715031002	**YAT-YGWC-49**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92715031003	**YAT-YAMW-3**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92715031004	**YAT-PZ-37**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92715031005	**YAT-PZ-37D**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92715031006	**YAT-PZ-52D**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92715031007	**YAT-YGWC-38**	EPA 6010D	DRB	4

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JAY	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92715031008	**YAT-YGWC-41**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JAY	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92715031009	**YAT-YGWC-42**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JAY	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92715031010	**YAT-YAMW-2**	EPA 6010D	DRB	4
		EPA 6020B	MT1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JAY	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92715031011	**YAT-YAMW-4**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JAY	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92715031012	**YAT-YAMW-5**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JAY	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92715031013	**YAT-AMA-R6-EB-1**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JAY	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92715031014	**YAT-AMA-R6-FB-1**	EPA 6010D	DRB	4
		EPA 6020B	CW1, MT1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JAY	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92715031015	**YAT-YGWC-43**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JMH1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92715031016	**YAT-PZ-51**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JMH1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92715031017	**YAT-YGWC-50**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JMH1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92715031018	**YAT-PZ-55**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JMH1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92715031019	**YAT-YAMW-1**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1

Pace Analytical Services, LLC
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SAMPLE ANALYTE COUNT

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JAY	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92715031020	**YAT-AMA-R6-FD-1**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JAY	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92715031021	**YAT-YGWC-36A**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JAY	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92715031022	**YAT-YGWC-24SB**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JAY	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92715031023	**YAT-PZ-35**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JAY	1
		EPA 300.0 Rev 2.1 1993	CDC	3

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

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92715031001	**YAT-YGWC-23S**					
EPA 6010D	Potassium	1.2	mg/L	0.50	03/04/24 12:10	
EPA 6010D	Sodium	16.7	mg/L	1.0	03/04/24 12:10	
EPA 6010D	Calcium	11.1	mg/L	1.0	03/04/24 12:10	
EPA 6010D	Magnesium	9.5	mg/L	0.050	03/04/24 12:10	
EPA 6020B	Barium	0.053	mg/L	0.0050	03/04/24 17:34	
EPA 6020B	Beryllium	0.00019J	mg/L	0.00050	03/04/24 17:34	
EPA 6020B	Boron	1.3	mg/L	0.040	03/04/24 17:34	
EPA 6020B	Lithium	0.0024J	mg/L	0.030	03/04/24 17:34	
EPA 6020B	Selenium	0.031	mg/L	0.0050	03/04/24 17:34	
SM 2540C-2015	Total Dissolved Solids	192	mg/L	25.0	02/28/24 13:53	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	10.7	mg/L	5.0	02/29/24 18:26	
SM 2320B-2011	Alkalinity, Total as CaCO3	10.7	mg/L	5.0	02/29/24 18:26	
EPA 300.0 Rev 2.1 1993	Chloride	2.4	mg/L	1.0	02/24/24 19:16	
EPA 300.0 Rev 2.1 1993	Sulfate	81.0	mg/L	1.0	02/24/24 19:16	
92715031002	**YAT-YGWC-49**					
EPA 6010D	Potassium	1.7	mg/L	0.50	03/04/24 12:17	
EPA 6010D	Sodium	17.0	mg/L	1.0	03/04/24 12:17	
EPA 6010D	Calcium	11.1	mg/L	1.0	03/04/24 12:17	
EPA 6010D	Magnesium	7.6	mg/L	0.050	03/04/24 12:17	
EPA 6020B	Barium	0.054	mg/L	0.0050	03/04/24 17:37	
EPA 6020B	Beryllium	0.00010J	mg/L	0.00050	03/04/24 17:37	
EPA 6020B	Chromium	0.0021J	mg/L	0.0050	03/04/24 17:37	
EPA 6020B	Lithium	0.0029J	mg/L	0.030	03/04/24 17:37	
EPA 6020B	Selenium	0.0055	mg/L	0.0050	03/04/24 17:37	
SM 2540C-2015	Total Dissolved Solids	173	mg/L	25.0	02/28/24 13:53	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	16.7	mg/L	5.0	02/29/24 18:31	
SM 2320B-2011	Alkalinity, Total as CaCO3	16.7	mg/L	5.0	02/29/24 18:31	
EPA 300.0 Rev 2.1 1993	Chloride	4.0	mg/L	1.0	02/24/24 19:30	
EPA 300.0 Rev 2.1 1993	Sulfate	65.4	mg/L	1.0	02/24/24 19:30	
92715031003	**YAT-YAMW-3**					
EPA 6010D	Potassium	12.7	mg/L	0.50	03/04/24 12:20	
EPA 6010D	Sodium	42.0	mg/L	1.0	03/04/24 12:20	
EPA 6010D	Calcium	39.7	mg/L	1.0	03/04/24 12:20	
EPA 6010D	Magnesium	68.9	mg/L	0.050	03/04/24 12:20	
EPA 6020B	Arsenic	0.0015J	mg/L	0.0050	03/04/24 17:41	
EPA 6020B	Barium	0.032	mg/L	0.0050	03/04/24 17:41	
EPA 6020B	Beryllium	0.00019J	mg/L	0.00050	03/04/24 17:41	
EPA 6020B	Boron	8.6	mg/L	0.040	03/04/24 17:41	
EPA 6020B	Cadmium	0.00035J	mg/L	0.00050	03/04/24 17:41	
EPA 6020B	Cobalt	0.051	mg/L	0.0050	03/04/24 17:41	
EPA 6020B	Lithium	0.047	mg/L	0.030	03/04/24 17:41	
EPA 6020B	Molybdenum	0.0041J	mg/L	0.010	03/04/24 17:41	
EPA 6020B	Selenium	0.023	mg/L	0.0050	03/04/24 17:41	
SM 2540C-2015	Total Dissolved Solids	753	mg/L	25.0	02/28/24 13:54	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	41.0	mg/L	5.0	02/29/24 18:37	
SM 2320B-2011	Alkalinity, Total as CaCO3	41.0	mg/L	5.0	02/29/24 18:37	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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SUMMARY OF DETECTION

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92715031003	**YAT-YAMW-3**					
EPA 300.0 Rev 2.1 1993	Chloride	3.5	mg/L	1.0	02/24/24 19:45	
EPA 300.0 Rev 2.1 1993	Fluoride	0.066J	mg/L	0.10	02/24/24 19:45	
EPA 300.0 Rev 2.1 1993	Sulfate	386	mg/L	8.0	02/25/24 05:30	
92715031004	**YAT-PZ-37**					
EPA 6010D	Potassium	5.0	mg/L	0.50	03/04/24 12:23	
EPA 6010D	Sodium	28.2	mg/L	1.0	03/04/24 12:23	
EPA 6010D	Calcium	103	mg/L	1.0	03/04/24 12:23	
EPA 6010D	Magnesium	56.4	mg/L	0.050	03/04/24 12:23	
EPA 6020B	Arsenic	0.0023J	mg/L	0.0050	03/04/24 17:45	
EPA 6020B	Barium	0.021	mg/L	0.0050	03/04/24 17:45	
EPA 6020B	Beryllium	0.0012	mg/L	0.00050	03/05/24 15:32	
EPA 6020B	Boron	7.8	mg/L	0.040	03/04/24 17:45	
EPA 6020B	Cadmium	0.00086	mg/L	0.00050	03/04/24 17:45	
EPA 6020B	Cobalt	0.0017J	mg/L	0.0050	03/04/24 17:45	
EPA 6020B	Lithium	0.015J	mg/L	0.030	03/04/24 17:45	
EPA 6020B	Selenium	0.13	mg/L	0.0050	03/04/24 17:45	
SM 2540C-2015	Total Dissolved Solids	834	mg/L	25.0	02/28/24 13:54	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	16.0	mg/L	5.0	02/29/24 18:44	
SM 2320B-2011	Alkalinity, Total as CaCO3	16.0	mg/L	5.0	02/29/24 18:44	
EPA 300.0 Rev 2.1 1993	Chloride	4.5	mg/L	1.0	02/24/24 19:59	
EPA 300.0 Rev 2.1 1993	Sulfate	462	mg/L	10.0	02/25/24 05:44	
92715031005	**YAT-PZ-37D**					
EPA 6010D	Potassium	7.6	mg/L	0.50	03/04/24 12:25	
EPA 6010D	Sodium	87.5	mg/L	1.0	03/04/24 12:25	
EPA 6010D	Calcium	65.9	mg/L	1.0	03/04/24 12:25	
EPA 6010D	Magnesium	11.4	mg/L	0.050	03/04/24 12:25	
EPA 6020B	Arsenic	0.0014J	mg/L	0.0050	03/04/24 17:48	
EPA 6020B	Barium	0.020	mg/L	0.0050	03/04/24 17:48	
EPA 6020B	Boron	0.57	mg/L	0.040	03/04/24 17:48	
EPA 6020B	Lithium	0.0090J	mg/L	0.030	03/04/24 17:48	
EPA 6020B	Molybdenum	0.0040J	mg/L	0.010	03/04/24 17:48	
SM 2540C-2015	Total Dissolved Solids	548	mg/L	25.0	02/28/24 13:54	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	125	mg/L	5.0	02/29/24 18:51	
SM 2320B-2011	Alkalinity, Total as CaCO3	125	mg/L	5.0	02/29/24 18:51	
EPA 300.0 Rev 2.1 1993	Chloride	18.9	mg/L	1.0	02/24/24 20:13	
EPA 300.0 Rev 2.1 1993	Fluoride	0.21	mg/L	0.10	02/24/24 20:13	
EPA 300.0 Rev 2.1 1993	Sulfate	222	mg/L	5.0	02/25/24 06:27	
92715031006	**YAT-PZ-52D**					
EPA 6010D	Potassium	8.7	mg/L	0.50	03/04/24 12:36	M1
EPA 6010D	Sodium	42.9	mg/L	1.0	03/04/24 12:36	M1
EPA 6010D	Calcium	24.5	mg/L	1.0	03/04/24 12:36	M1
EPA 6010D	Magnesium	52.2	mg/L	0.050	03/04/24 12:36	M1
EPA 6020B	Arsenic	0.0013J	mg/L	0.0050	03/04/24 17:52	
EPA 6020B	Barium	0.0091	mg/L	0.0050	03/04/24 17:52	
EPA 6020B	Boron	1.6	mg/L	0.040	03/04/24 17:52	
EPA 6020B	Cobalt	0.0029J	mg/L	0.0050	03/04/24 17:52	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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SUMMARY OF DETECTION

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92715031006	**YAT-PZ-52D**					
EPA 6020B	Lithium	0.027J	mg/L	0.030	03/04/24 17:52	
EPA 6020B	Molybdenum	0.0025J	mg/L	0.010	03/04/24 17:52	
EPA 6020B	Selenium	0.0099	mg/L	0.0050	03/04/24 17:52	
SM 2540C-2015	Total Dissolved Solids	557	mg/L	25.0	02/28/24 13:54	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	28.2	mg/L	5.0	02/29/24 18:59	
SM 2320B-2011	Alkalinity, Total as CaCO3	28.2	mg/L	5.0	02/29/24 18:59	
EPA 300.0 Rev 2.1 1993	Chloride	1.6	mg/L	1.0	02/24/24 20:28	
EPA 300.0 Rev 2.1 1993	Fluoride	0.053J	mg/L	0.10	02/24/24 20:28	
EPA 300.0 Rev 2.1 1993	Sulfate	309	mg/L	7.0	02/25/24 06:41	
92715031007	**YAT-YGWC-38**					
EPA 6010D	Potassium	3.9	mg/L	0.50	03/04/24 17:26	
EPA 6010D	Sodium	19.1	mg/L	1.0	03/04/24 17:26	
EPA 6010D	Calcium	49.7	mg/L	1.0	03/04/24 17:26	
EPA 6010D	Magnesium	25.5	mg/L	0.050	03/04/24 17:26	
EPA 6020B	Barium	0.015	mg/L	0.0050	03/05/24 19:16	
EPA 6020B	Beryllium	0.0019	mg/L	0.00050	03/06/24 13:14	
EPA 6020B	Boron	3.7	mg/L	0.040	03/06/24 13:14	
EPA 6020B	Cadmium	0.00074	mg/L	0.00050	03/05/24 19:16	
EPA 6020B	Lithium	0.0058J	mg/L	0.030	03/05/24 19:16	
EPA 6020B	Selenium	0.048	mg/L	0.0050	03/05/24 19:16	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	8.6	mg/L	5.0	03/05/24 15:05	
SM 2320B-2011	Alkalinity, Total as CaCO3	8.6	mg/L	5.0	03/05/24 15:05	
SM 2540C-2015	Total Dissolved Solids	403	mg/L	25.0	02/25/24 12:31	
EPA 300.0 Rev 2.1 1993	Chloride	3.7	mg/L	1.0	02/26/24 22:50	
EPA 300.0 Rev 2.1 1993	Sulfate	210	mg/L	5.0	02/27/24 09:05	
92715031008	**YAT-YGWC-41**					
EPA 6010D	Potassium	2.5	mg/L	0.50	03/04/24 17:29	
EPA 6010D	Sodium	15.0	mg/L	1.0	03/04/24 17:29	
EPA 6010D	Calcium	14.4	mg/L	1.0	03/04/24 17:29	
EPA 6010D	Magnesium	17.7	mg/L	0.050	03/04/24 17:29	
EPA 6020B	Barium	0.019	mg/L	0.0050	03/05/24 19:20	
EPA 6020B	Beryllium	0.0014	mg/L	0.00050	03/06/24 13:19	
EPA 6020B	Boron	3.5	mg/L	0.040	03/06/24 13:19	
EPA 6020B	Lithium	0.0026J	mg/L	0.030	03/05/24 19:20	
EPA 6020B	Selenium	0.021	mg/L	0.0050	03/05/24 19:20	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	6.6	mg/L	5.0	03/05/24 15:10	
SM 2320B-2011	Alkalinity, Total as CaCO3	6.6	mg/L	5.0	03/05/24 15:10	
SM 2540C-2015	Total Dissolved Solids	224	mg/L	25.0	02/25/24 12:31	
EPA 300.0 Rev 2.1 1993	Chloride	3.9	mg/L	1.0	02/26/24 23:04	
EPA 300.0 Rev 2.1 1993	Sulfate	109	mg/L	2.0	02/27/24 09:20	
92715031009	**YAT-YGWC-42**					
EPA 6010D	Potassium	12.0	mg/L	0.50	03/04/24 17:37	
EPA 6010D	Sodium	38.0	mg/L	1.0	03/04/24 17:37	
EPA 6010D	Calcium	73.5	mg/L	1.0	03/04/24 17:37	
EPA 6010D	Magnesium	79.5	mg/L	0.050	03/04/24 17:37	
EPA 6020B	Arsenic	0.0014J	mg/L	0.0050	03/05/24 19:23	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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SUMMARY OF DETECTION

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92715031009	**YAT-YGWC-42**					
EPA 6020B	Barium	0.021	mg/L	0.0050	03/05/24 19:23	
EPA 6020B	Boron	15.5	mg/L	2.0	03/06/24 13:23	
EPA 6020B	Cobalt	0.0023J	mg/L	0.0050	03/05/24 19:23	
EPA 6020B	Lithium	0.049	mg/L	0.030	03/06/24 14:29	
EPA 6020B	Molybdenum	0.00075J	mg/L	0.010	03/05/24 19:23	
EPA 6020B	Selenium	0.037	mg/L	0.0050	03/05/24 19:23	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	36.3	mg/L	5.0	03/05/24 15:15	
SM 2320B-2011	Alkalinity, Total as CaCO3	36.3	mg/L	5.0	03/05/24 15:15	
SM 2540C-2015	Total Dissolved Solids	881	mg/L	25.0	02/25/24 12:31	
EPA 300.0 Rev 2.1 1993	Chloride	3.3	mg/L	1.0	02/26/24 23:18	
EPA 300.0 Rev 2.1 1993	Sulfate	487	mg/L	10.0	02/27/24 09:34	
92715031010	**YAT-YAMW-2**					
EPA 6010D	Potassium	0.62	mg/L	0.50	03/04/24 17:40	
EPA 6010D	Sodium	7.2	mg/L	1.0	03/04/24 17:40	
EPA 6010D	Calcium	1.2	mg/L	1.0	03/04/24 17:40	
EPA 6010D	Magnesium	2.2	mg/L	0.050	03/04/24 17:40	
EPA 6020B	Barium	0.0068	mg/L	0.0050	03/07/24 16:31	
EPA 6020B	Boron	0.019J	mg/L	0.040	03/07/24 16:31	
EPA 6020B	Cobalt	0.00044J	mg/L	0.0050	03/07/24 16:31	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	15.9	mg/L	5.0	03/05/24 15:22	
SM 2320B-2011	Alkalinity, Total as CaCO3	15.9	mg/L	5.0	03/05/24 15:22	
SM 2540C-2015	Total Dissolved Solids	55.0	mg/L	25.0	02/25/24 12:31	
EPA 300.0 Rev 2.1 1993	Chloride	2.3	mg/L	1.0	02/27/24 01:13	
EPA 300.0 Rev 2.1 1993	Fluoride	0.050J	mg/L	0.10	02/27/24 01:13	
EPA 300.0 Rev 2.1 1993	Sulfate	6.2	mg/L	1.0	02/27/24 01:13	
92715031011	**YAT-YAMW-4**					
EPA 6010D	Potassium	7.0	mg/L	0.50	03/04/24 17:42	
EPA 6010D	Sodium	29.3	mg/L	1.0	03/04/24 17:42	
EPA 6010D	Calcium	14.4	mg/L	1.0	03/04/24 17:42	
EPA 6010D	Magnesium	48.3	mg/L	0.050	03/04/24 17:42	
EPA 6020B	Arsenic	0.0010J	mg/L	0.0050	03/05/24 19:31	
EPA 6020B	Barium	0.0030J	mg/L	0.0050	03/05/24 19:31	
EPA 6020B	Boron	3.8	mg/L	0.040	03/06/24 13:27	
EPA 6020B	Lithium	0.036	mg/L	0.030	03/06/24 13:27	
EPA 6020B	Molybdenum	0.0071J	mg/L	0.010	03/05/24 19:31	
EPA 6020B	Selenium	0.015	mg/L	0.0050	03/05/24 19:31	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	57.9	mg/L	5.0	03/05/24 15:27	
SM 2320B-2011	Alkalinity, Total as CaCO3	57.9	mg/L	5.0	03/05/24 15:27	
SM 2540C-2015	Total Dissolved Solids	424	mg/L	25.0	02/25/24 12:31	
EPA 300.0 Rev 2.1 1993	Chloride	1.5	mg/L	1.0	02/27/24 01:27	
EPA 300.0 Rev 2.1 1993	Fluoride	0.061J	mg/L	0.10	02/27/24 01:27	
EPA 300.0 Rev 2.1 1993	Sulfate	208	mg/L	5.0	02/27/24 10:17	
92715031012	**YAT-YAMW-5**					
EPA 6010D	Potassium	7.8	mg/L	0.50	03/04/24 17:45	
EPA 6010D	Sodium	41.2	mg/L	1.0	03/04/24 17:45	
EPA 6010D	Calcium	52.7	mg/L	1.0	03/04/24 17:45	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92715031012	**YAT-YAMW-5**					
EPA 6010D	Magnesium	50.9	mg/L	0.050	03/04/24 17:45	
EPA 6020B	Arsenic	0.0011J	mg/L	0.0050	03/05/24 14:33	
EPA 6020B	Barium	0.035	mg/L	0.0050	03/05/24 14:33	
EPA 6020B	Beryllium	0.00013J	mg/L	0.00050	03/05/24 14:33	
EPA 6020B	Boron	6.7	mg/L	0.040	03/05/24 14:33	
EPA 6020B	Cadmium	0.00022J	mg/L	0.00050	03/05/24 14:33	
EPA 6020B	Lithium	0.014J	mg/L	0.030	03/05/24 14:33	
EPA 6020B	Selenium	0.053	mg/L	0.0050	03/05/24 14:33	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	14.3	mg/L	5.0	03/05/24 15:34	
SM 2320B-2011	Alkalinity, Total as CaCO3	14.3	mg/L	5.0	03/05/24 15:34	
SM 2540C-2015	Total Dissolved Solids	681	mg/L	25.0	02/25/24 12:31	
EPA 300.0 Rev 2.1 1993	Chloride	3.7	mg/L	1.0	02/27/24 01:42	
EPA 300.0 Rev 2.1 1993	Sulfate	369	mg/L	8.0	02/27/24 10:31	
92715031013	**YAT-AMA-R6-EB-1**					
EPA 6020B	Antimony	0.0012J	mg/L	0.0030	03/05/24 14:48	
EPA 6020B	Arsenic	0.00096J	mg/L	0.0050	03/05/24 14:48	
92715031014	**YAT-AMA-R6-FB-1**					
EPA 6020B	Antimony	0.00059J	mg/L	0.0030	03/05/24 14:51	
EPA 6020B	Arsenic	0.00097J	mg/L	0.0050	03/05/24 14:51	
92715031015	**YAT-YGWC-43**					
EPA 6010D	Potassium	6.7	mg/L	0.50	03/04/24 17:53	
EPA 6010D	Sodium	19.1	mg/L	1.0	03/04/24 17:53	
EPA 6010D	Calcium	10.5	mg/L	1.0	03/04/24 17:53	
EPA 6010D	Magnesium	25.8	mg/L	0.050	03/04/24 17:53	
EPA 6020B	Barium	0.028	mg/L	0.0050	03/05/24 14:55	
EPA 6020B	Beryllium	0.00032J	mg/L	0.00050	03/05/24 14:55	
EPA 6020B	Boron	2.3	mg/L	0.040	03/05/24 14:55	
EPA 6020B	Cobalt	0.00038J	mg/L	0.0050	03/05/24 14:55	
EPA 6020B	Lithium	0.015J	mg/L	0.030	03/05/24 14:55	
EPA 6020B	Molybdenum	0.0016J	mg/L	0.010	03/05/24 14:55	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	35.5	mg/L	5.0	03/05/24 17:02	
SM 2320B-2011	Alkalinity, Total as CaCO3	35.5	mg/L	5.0	03/05/24 17:02	M1
SM 2540C-2015	Total Dissolved Solids	313	mg/L	25.0	02/27/24 11:03	
EPA 300.0 Rev 2.1 1993	Chloride	2.3	mg/L	1.0	02/27/24 01:56	
EPA 300.0 Rev 2.1 1993	Fluoride	0.091J	mg/L	0.10	02/27/24 01:56	
EPA 300.0 Rev 2.1 1993	Sulfate	147	mg/L	3.0	02/27/24 10:45	
92715031016	**YAT-PZ-51**					
EPA 6010D	Potassium	4.5	mg/L	0.50	03/04/24 17:56	
EPA 6010D	Sodium	17.7	mg/L	1.0	03/04/24 17:56	
EPA 6010D	Calcium	54.8	mg/L	1.0	03/04/24 17:56	
EPA 6010D	Magnesium	47.6	mg/L	0.050	03/04/24 17:56	
EPA 6020B	Barium	0.015	mg/L	0.0050	03/05/24 14:59	
EPA 6020B	Beryllium	0.0029	mg/L	0.00050	03/05/24 14:59	
EPA 6020B	Boron	6.4	mg/L	0.040	03/05/24 14:59	
EPA 6020B	Cadmium	0.0017	mg/L	0.00050	03/05/24 14:59	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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SUMMARY OF DETECTION

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92715031016	**YAT-PZ-51**					
EPA 6020B	Cobalt	0.0051	mg/L	0.0050	03/05/24 14:59	
EPA 6020B	Lithium	0.0050J	mg/L	0.030	03/05/24 14:59	
EPA 6020B	Selenium	0.024	mg/L	0.0050	03/05/24 14:59	
SM 2540C-2015	Total Dissolved Solids	556	mg/L	25.0	02/27/24 11:03	
EPA 300.0 Rev 2.1 1993	Chloride	4.3	mg/L	1.0	02/27/24 02:10	
EPA 300.0 Rev 2.1 1993	Fluoride	0.14	mg/L	0.10	02/27/24 02:10	
EPA 300.0 Rev 2.1 1993	Sulfate	309	mg/L	7.0	02/27/24 10:59	
92715031017	**YAT-YGWC-50**					
EPA 6010D	Potassium	6.0	mg/L	0.50	03/04/24 17:59	
EPA 6010D	Sodium	28.0	mg/L	1.0	03/04/24 17:59	
EPA 6010D	Calcium	267	mg/L	1.0	03/04/24 17:59	
EPA 6010D	Magnesium	126	mg/L	0.050	03/04/24 17:59	
EPA 6020B	Antimony	0.00076J	mg/L	0.0030	03/05/24 15:37	
EPA 6020B	Arsenic	0.0016J	mg/L	0.0050	03/05/24 15:37	
EPA 6020B	Barium	0.018	mg/L	0.0050	03/05/24 15:37	
EPA 6020B	Beryllium	0.0049	mg/L	0.00050	03/05/24 15:37	
EPA 6020B	Boron	22.1	mg/L	2.0	03/06/24 14:15	
EPA 6020B	Cadmium	0.011	mg/L	0.00050	03/05/24 15:37	
EPA 6020B	Cobalt	0.0063	mg/L	0.0050	03/05/24 15:37	
EPA 6020B	Lead	0.00021J	mg/L	0.0010	03/05/24 15:37	
EPA 6020B	Lithium	0.0036J	mg/L	0.030	03/05/24 15:37	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	25.7	mg/L	5.0	03/05/24 17:35	
SM 2320B-2011	Alkalinity, Total as CaCO3	25.7	mg/L	5.0	03/05/24 17:35	
SM 2540C-2015	Total Dissolved Solids	1930	mg/L	50.0	02/27/24 11:03	
EPA 300.0 Rev 2.1 1993	Chloride	9.8	mg/L	1.0	02/27/24 02:24	
EPA 300.0 Rev 2.1 1993	Fluoride	0.14	mg/L	0.10	02/27/24 02:24	
EPA 300.0 Rev 2.1 1993	Sulfate	1170	mg/L	24.0	02/27/24 11:41	
92715031018	**YAT-PZ-55**					
EPA 6010D	Potassium	4.5	mg/L	0.50	03/04/24 18:01	
EPA 6010D	Sodium	18.2	mg/L	1.0	03/04/24 18:01	
EPA 6010D	Calcium	22.5	mg/L	1.0	03/04/24 18:01	
EPA 6010D	Magnesium	21.0	mg/L	0.050	03/04/24 18:01	
EPA 6020B	Barium	0.045	mg/L	0.0050	03/05/24 15:40	
EPA 6020B	Boron	3.5	mg/L	0.040	03/05/24 15:40	
EPA 6020B	Cadmium	0.00069	mg/L	0.00050	03/05/24 15:40	
EPA 6020B	Cobalt	0.0041J	mg/L	0.0050	03/05/24 15:40	
EPA 6020B	Lithium	0.0034J	mg/L	0.030	03/05/24 15:40	
EPA 6020B	Molybdenum	0.00082J	mg/L	0.010	03/05/24 15:40	
EPA 6020B	Selenium	0.019	mg/L	0.0050	03/05/24 15:40	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	27.0	mg/L	5.0	03/05/24 17:44	
SM 2320B-2011	Alkalinity, Total as CaCO3	27.0	mg/L	5.0	03/05/24 17:44	
SM 2540C-2015	Total Dissolved Solids	297	mg/L	25.0	02/27/24 11:03	
EPA 300.0 Rev 2.1 1993	Chloride	4.7	mg/L	1.0	02/27/24 03:07	
EPA 300.0 Rev 2.1 1993	Fluoride	0.065J	mg/L	0.10	02/27/24 03:07	
EPA 300.0 Rev 2.1 1993	Sulfate	139	mg/L	3.0	02/27/24 11:56	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92715031019	**YAT-YAMW-1**					
EPA 6010D	Potassium	7.6	mg/L	0.50	03/04/24 16:20	
EPA 6010D	Sodium	24.0	mg/L	1.0	03/04/24 16:20	
EPA 6010D	Calcium	46.3	mg/L	1.0	03/04/24 16:20	
EPA 6010D	Magnesium	36.5	mg/L	0.050	03/04/24 16:20	
EPA 6020B	Antimony	0.0023J	mg/L	0.0030	03/05/24 20:07	
EPA 6020B	Barium	0.087	mg/L	0.0050	03/05/24 20:07	
EPA 6020B	Beryllium	0.00015J	mg/L	0.00050	03/05/24 20:07	
EPA 6020B	Boron	1.5	mg/L	0.040	03/05/24 20:07	
EPA 6020B	Cadmium	0.00023J	mg/L	0.00050	03/05/24 20:07	
EPA 6020B	Cobalt	0.0044J	mg/L	0.0050	03/05/24 20:07	
EPA 6020B	Lithium	0.017J	mg/L	0.030	03/05/24 20:07	
EPA 6020B	Selenium	0.0056	mg/L	0.0050	03/05/24 20:07	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	20.9	mg/L	5.0	03/05/24 18:59	
SM 2320B-2011	Alkalinity, Total as CaCO3	20.9	mg/L	5.0	03/05/24 18:59	
SM 2540C-2015	Total Dissolved Solids	454	mg/L	25.0	02/28/24 11:29	
EPA 300.0 Rev 2.1 1993	Chloride	5.2	mg/L	1.0	02/27/24 06:56	
EPA 300.0 Rev 2.1 1993	Sulfate	237	mg/L	5.0	02/27/24 12:24	
92715031020	**YAT-AMA-R6-FD-1**					
EPA 6010D	Potassium	7.5	mg/L	0.50	03/04/24 16:23	
EPA 6010D	Sodium	23.7	mg/L	1.0	03/04/24 16:23	
EPA 6010D	Calcium	46.1	mg/L	1.0	03/04/24 16:23	
EPA 6010D	Magnesium	36.6	mg/L	0.050	03/04/24 16:23	
EPA 6020B	Antimony	0.00064J	mg/L	0.0030	03/05/24 20:12	
EPA 6020B	Barium	0.086	mg/L	0.0050	03/05/24 20:12	
EPA 6020B	Beryllium	0.00015J	mg/L	0.00050	03/05/24 20:12	
EPA 6020B	Boron	1.5	mg/L	0.040	03/05/24 20:12	
EPA 6020B	Cadmium	0.00023J	mg/L	0.00050	03/05/24 20:12	
EPA 6020B	Cobalt	0.0045J	mg/L	0.0050	03/05/24 20:12	
EPA 6020B	Lithium	0.018J	mg/L	0.030	03/05/24 20:12	
EPA 6020B	Selenium	0.0062	mg/L	0.0050	03/05/24 20:12	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	21.1	mg/L	5.0	03/06/24 15:04	
SM 2320B-2011	Alkalinity, Total as CaCO3	21.1	mg/L	5.0	03/06/24 15:04	
SM 2540C-2015	Total Dissolved Solids	455	mg/L	25.0	02/28/24 11:30	
EPA 300.0 Rev 2.1 1993	Chloride	5.2	mg/L	1.0	02/27/24 07:11	
EPA 300.0 Rev 2.1 1993	Sulfate	241	mg/L	5.0	02/27/24 12:38	M1
92715031021	**YAT-YGWC-36A**					
EPA 6010D	Potassium	2.3	mg/L	0.50	03/04/24 16:26	
EPA 6010D	Sodium	28.3	mg/L	1.0	03/04/24 16:26	
EPA 6010D	Calcium	33.6	mg/L	1.0	03/04/24 16:26	
EPA 6010D	Magnesium	15.1	mg/L	0.050	03/04/24 16:26	
EPA 6020B	Barium	0.13	mg/L	0.0050	03/05/24 20:16	
EPA 6020B	Beryllium	0.0018	mg/L	0.00050	03/05/24 20:16	
EPA 6020B	Boron	0.11	mg/L	0.040	03/05/24 20:16	
EPA 6020B	Lithium	0.0017J	mg/L	0.030	03/05/24 20:16	
EPA 6020B	Selenium	0.0050J	mg/L	0.0050	03/05/24 20:16	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	6.8	mg/L	5.0	03/06/24 15:21	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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SUMMARY OF DETECTION

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92715031021	**YAT-YGWC-36A**					
SM 2320B-2011	Alkalinity, Total as CaCO3	6.8	mg/L	5.0	03/06/24 15:21	
SM 2540C-2015	Total Dissolved Solids	308	mg/L	25.0	02/28/24 11:30	
EPA 300.0 Rev 2.1 1993	Chloride	4.8	mg/L	1.0	02/27/24 07:54	
EPA 300.0 Rev 2.1 1993	Sulfate	156	mg/L	3.0	02/27/24 13:20	
92715031022	**YAT-YGWC-24SB**					
EPA 6010D	Potassium	1.2	mg/L	0.50	03/04/24 16:34	B
EPA 6010D	Sodium	9.9	mg/L	1.0	03/04/24 16:34	
EPA 6010D	Calcium	2.6	mg/L	1.0	03/04/24 16:34	
EPA 6010D	Magnesium	2.2	mg/L	0.050	03/04/24 16:34	
EPA 6020B	Barium	0.032	mg/L	0.0050	03/05/24 20:20	
EPA 6020B	Beryllium	0.00015J	mg/L	0.00050	03/05/24 20:20	
EPA 6020B	Boron	0.016J	mg/L	0.040	03/05/24 20:20	
EPA 6020B	Lead	0.00029J	mg/L	0.0010	03/05/24 20:20	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	11.5	mg/L	5.0	03/06/24 15:36	
SM 2320B-2011	Alkalinity, Total as CaCO3	11.5	mg/L	5.0	03/06/24 15:36	
SM 2540C-2015	Total Dissolved Solids	75.0	mg/L	25.0	02/28/24 11:30	
EPA 300.0 Rev 2.1 1993	Chloride	8.3	mg/L	1.0	02/27/24 08:08	
92715031023	**YAT-PZ-35**					
EPA 6010D	Potassium	2.4	mg/L	0.50	03/04/24 16:36	
EPA 6010D	Sodium	19.2	mg/L	1.0	03/04/24 16:36	
EPA 6010D	Calcium	31.1	mg/L	1.0	03/04/24 16:36	
EPA 6010D	Magnesium	16.6	mg/L	0.050	03/04/24 16:36	
EPA 6020B	Barium	0.21	mg/L	0.0050	03/05/24 20:32	
EPA 6020B	Beryllium	0.0015	mg/L	0.00050	03/05/24 20:32	
EPA 6020B	Boron	0.20	mg/L	0.040	03/05/24 20:32	
EPA 6020B	Cadmium	0.00027J	mg/L	0.00050	03/05/24 20:32	
EPA 6020B	Lithium	0.0032J	mg/L	0.030	03/05/24 20:32	
EPA 6020B	Selenium	0.0035J	mg/L	0.0050	03/05/24 20:32	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	6.7	mg/L	5.0	03/06/24 15:52	
SM 2320B-2011	Alkalinity, Total as CaCO3	6.7	mg/L	5.0	03/06/24 15:52	
SM 2540C-2015	Total Dissolved Solids	299	mg/L	25.0	02/28/24 11:30	
EPA 300.0 Rev 2.1 1993	Chloride	4.8	mg/L	1.0	02/27/24 08:51	
EPA 300.0 Rev 2.1 1993	Sulfate	148	mg/L	3.0	02/27/24 13:35	

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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

Sample: YAT-YGWC-23S **Lab ID: 92715031001** Collected: 02/21/24 16:37 Received: 02/22/24 09:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**1.2**	mg/L	0.50	0.15	1	02/29/24 13:30	03/04/24 12:10	7440-09-7	
Sodium	**16.7**	mg/L	1.0	0.58	1	02/29/24 13:30	03/04/24 12:10	7440-23-5	
Calcium	**11.1**	mg/L	1.0	0.12	1	02/29/24 13:30	03/04/24 12:10	7440-70-2	
Magnesium	**9.5**	mg/L	0.050	0.012	1	02/29/24 13:30	03/04/24 12:10	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/29/24 09:00	03/04/24 17:34	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/29/24 09:00	03/04/24 17:34	7440-38-2	
Barium	**0.053**	mg/L	0.0050	0.00047	1	02/29/24 09:00	03/04/24 17:34	7440-39-3	
Beryllium	**0.00019J**	mg/L	0.00050	0.000094	1	02/29/24 09:00	03/04/24 17:34	7440-41-7	
Boron	**1.3**	mg/L	0.040	0.012	1	02/29/24 09:00	03/04/24 17:34	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/29/24 09:00	03/04/24 17:34	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/29/24 09:00	03/04/24 17:34	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/29/24 09:00	03/04/24 17:34	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/29/24 09:00	03/04/24 17:34	7439-92-1	
Lithium	**0.0024J**	mg/L	0.030	0.0016	1	02/29/24 09:00	03/04/24 17:34	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/29/24 09:00	03/04/24 17:34	7439-98-7	
Selenium	**0.031**	mg/L	0.0050	0.00096	1	02/29/24 09:00	03/04/24 17:34	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/29/24 09:00	03/04/24 17:34	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 19:30	03/08/24 08:33	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**192**	mg/L	25.0	25.0	1		02/28/24 13:53		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**10.7**	mg/L	5.0	5.0	1		02/29/24 18:26		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/29/24 18:26		
Alkalinity, Total as CaCO3	**10.7**	mg/L	5.0	5.0	1		02/29/24 18:26		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.4**	mg/L	1.0	0.60	1		02/24/24 19:16	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/24/24 19:16	16984-48-8	
Sulfate	**81.0**	mg/L	1.0	0.50	1		02/24/24 19:16	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

Sample: YAT-YGWC-49 **Lab ID: 92715031002** Collected: 02/21/24 17:25 Received: 02/22/24 09:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**1.7**	mg/L	0.50	0.15	1	02/29/24 13:30	03/04/24 12:17	7440-09-7	
Sodium	**17.0**	mg/L	1.0	0.58	1	02/29/24 13:30	03/04/24 12:17	7440-23-5	
Calcium	**11.1**	mg/L	1.0	0.12	1	02/29/24 13:30	03/04/24 12:17	7440-70-2	
Magnesium	**7.6**	mg/L	0.050	0.012	1	02/29/24 13:30	03/04/24 12:17	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/29/24 09:00	03/04/24 17:37	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/29/24 09:00	03/04/24 17:37	7440-38-2	
Barium	**0.054**	mg/L	0.0050	0.00047	1	02/29/24 09:00	03/04/24 17:37	7440-39-3	
Beryllium	**0.00010J**	mg/L	0.00050	0.000094	1	02/29/24 09:00	03/04/24 17:37	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	02/29/24 09:00	03/04/24 17:37	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/29/24 09:00	03/04/24 17:37	7440-43-9	
Chromium	**0.0021J**	mg/L	0.0050	0.0019	1	02/29/24 09:00	03/04/24 17:37	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/29/24 09:00	03/04/24 17:37	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/29/24 09:00	03/04/24 17:37	7439-92-1	
Lithium	**0.0029J**	mg/L	0.030	0.0016	1	02/29/24 09:00	03/04/24 17:37	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/29/24 09:00	03/04/24 17:37	7439-98-7	
Selenium	**0.0055**	mg/L	0.0050	0.00096	1	02/29/24 09:00	03/04/24 17:37	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/29/24 09:00	03/04/24 17:37	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 19:30	03/08/24 08:48	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**173**	mg/L	25.0	25.0	1		02/28/24 13:53		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**16.7**	mg/L	5.0	5.0	1		02/29/24 18:31		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/29/24 18:31		
Alkalinity, Total as CaCO3	**16.7**	mg/L	5.0	5.0	1		02/29/24 18:31		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.0**	mg/L	1.0	0.60	1		02/24/24 19:30	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/24/24 19:30	16984-48-8	
Sulfate	**65.4**	mg/L	1.0	0.50	1		02/24/24 19:30	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

Sample: YAT-YAMW-3 **Lab ID: 92715031003** Collected: 02/21/24 12:02 Received: 02/22/24 09:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**12.7**	mg/L	0.50	0.15	1	02/29/24 13:30	03/04/24 12:20	7440-09-7	
Sodium	**42.0**	mg/L	1.0	0.58	1	02/29/24 13:30	03/04/24 12:20	7440-23-5	
Calcium	**39.7**	mg/L	1.0	0.12	1	02/29/24 13:30	03/04/24 12:20	7440-70-2	
Magnesium	**68.9**	mg/L	0.050	0.012	1	02/29/24 13:30	03/04/24 12:20	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/29/24 09:00	03/04/24 17:41	7440-36-0	
Arsenic	**0.0015J**	mg/L	0.0050	0.00084	1	02/29/24 09:00	03/04/24 17:41	7440-38-2	
Barium	**0.032**	mg/L	0.0050	0.00047	1	02/29/24 09:00	03/04/24 17:41	7440-39-3	
Beryllium	**0.00019J**	mg/L	0.00050	0.000094	1	02/29/24 09:00	03/04/24 17:41	7440-41-7	
Boron	**8.6**	mg/L	0.040	0.012	1	02/29/24 09:00	03/04/24 17:41	7440-42-8	
Cadmium	**0.00035J**	mg/L	0.00050	0.00010	1	02/29/24 09:00	03/04/24 17:41	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/29/24 09:00	03/04/24 17:41	7440-47-3	
Cobalt	**0.051**	mg/L	0.0050	0.00032	1	02/29/24 09:00	03/04/24 17:41	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/29/24 09:00	03/04/24 17:41	7439-92-1	
Lithium	**0.047**	mg/L	0.030	0.0016	1	02/29/24 09:00	03/04/24 17:41	7439-93-2	
Molybdenum	**0.0041J**	mg/L	0.010	0.00062	1	02/29/24 09:00	03/04/24 17:41	7439-98-7	
Selenium	**0.023**	mg/L	0.0050	0.00096	1	02/29/24 09:00	03/04/24 17:41	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/29/24 09:00	03/04/24 17:41	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 19:30	03/08/24 08:51	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**753**	mg/L	25.0	25.0	1		02/28/24 13:54		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**41.0**	mg/L	5.0	5.0	1		02/29/24 18:37		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/29/24 18:37		
Alkalinity, Total as CaCO3	**41.0**	mg/L	5.0	5.0	1		02/29/24 18:37		
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		02/24/24 19:45	16887-00-6	
Fluoride	**0.066J**	mg/L	0.10	0.050	1		02/24/24 19:45	16984-48-8	
Sulfate	**386**	mg/L	8.0	4.0	8		02/25/24 05:30	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

Sample: YAT-PZ-37 **Lab ID: 92715031004** Collected: 02/21/24 09:54 Received: 02/22/24 09:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**5.0**	mg/L	0.50	0.15	1	02/29/24 13:30	03/04/24 12:23	7440-09-7	
Sodium	**28.2**	mg/L	1.0	0.58	1	02/29/24 13:30	03/04/24 12:23	7440-23-5	
Calcium	**103**	mg/L	1.0	0.12	1	02/29/24 13:30	03/04/24 12:23	7440-70-2	
Magnesium	**56.4**	mg/L	0.050	0.012	1	02/29/24 13:30	03/04/24 12:23	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/29/24 09:00	03/04/24 17:45	7440-36-0	
Arsenic	**0.0023J**	mg/L	0.0050	0.00084	1	02/29/24 09:00	03/04/24 17:45	7440-38-2	
Barium	**0.021**	mg/L	0.0050	0.00047	1	02/29/24 09:00	03/04/24 17:45	7440-39-3	
Beryllium	**0.0012**	mg/L	0.00050	0.000094	1	02/29/24 09:00	03/05/24 15:32	7440-41-7	
Boron	**7.8**	mg/L	0.040	0.012	1	02/29/24 09:00	03/04/24 17:45	7440-42-8	
Cadmium	**0.00086**	mg/L	0.00050	0.00010	1	02/29/24 09:00	03/04/24 17:45	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/29/24 09:00	03/04/24 17:45	7440-47-3	
Cobalt	**0.0017J**	mg/L	0.0050	0.00032	1	02/29/24 09:00	03/04/24 17:45	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/29/24 09:00	03/04/24 17:45	7439-92-1	
Lithium	**0.015J**	mg/L	0.030	0.0016	1	02/29/24 09:00	03/04/24 17:45	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/29/24 09:00	03/04/24 17:45	7439-98-7	
Selenium	**0.13**	mg/L	0.0050	0.00096	1	02/29/24 09:00	03/04/24 17:45	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/29/24 09:00	03/04/24 17:45	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 19:30	03/08/24 08:54	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**834**	mg/L	25.0	25.0	1		02/28/24 13:54		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**16.0**	mg/L	5.0	5.0	1		02/29/24 18:44		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/29/24 18:44		
Alkalinity, Total as CaCO3	**16.0**	mg/L	5.0	5.0	1		02/29/24 18:44		
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		02/24/24 19:59	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/24/24 19:59	16984-48-8	
Sulfate	**462**	mg/L	10.0	5.0	10		02/25/24 05:44	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

Sample: YAT-PZ-37D **Lab ID: 92715031005** Collected: 02/21/24 14:13 Received: 02/22/24 09:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**7.6**	mg/L	0.50	0.15	1	02/29/24 13:30	03/04/24 12:25	7440-09-7	
Sodium	**87.5**	mg/L	1.0	0.58	1	02/29/24 13:30	03/04/24 12:25	7440-23-5	
Calcium	**65.9**	mg/L	1.0	0.12	1	02/29/24 13:30	03/04/24 12:25	7440-70-2	
Magnesium	**11.4**	mg/L	0.050	0.012	1	02/29/24 13:30	03/04/24 12:25	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/29/24 09:00	03/04/24 17:48	7440-36-0	
Arsenic	**0.0014J**	mg/L	0.0050	0.00084	1	02/29/24 09:00	03/04/24 17:48	7440-38-2	
Barium	**0.020**	mg/L	0.0050	0.00047	1	02/29/24 09:00	03/04/24 17:48	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/29/24 09:00	03/04/24 17:48	7440-41-7	
Boron	**0.57**	mg/L	0.040	0.012	1	02/29/24 09:00	03/04/24 17:48	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/29/24 09:00	03/04/24 17:48	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/29/24 09:00	03/04/24 17:48	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/29/24 09:00	03/04/24 17:48	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/29/24 09:00	03/04/24 17:48	7439-92-1	
Lithium	**0.0090J**	mg/L	0.030	0.0016	1	02/29/24 09:00	03/04/24 17:48	7439-93-2	
Molybdenum	**0.0040J**	mg/L	0.010	0.00062	1	02/29/24 09:00	03/04/24 17:48	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/29/24 09:00	03/04/24 17:48	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/29/24 09:00	03/04/24 17:48	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 19:30	03/08/24 08:56	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**548**	mg/L	25.0	25.0	1		02/28/24 13:54		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**125**	mg/L	5.0	5.0	1		02/29/24 18:51		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/29/24 18:51		
Alkalinity, Total as CaCO3	**125**	mg/L	5.0	5.0	1		02/29/24 18:51		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**18.9**	mg/L	1.0	0.60	1		02/24/24 20:13	16887-00-6	
Fluoride	**0.21**	mg/L	0.10	0.050	1		02/24/24 20:13	16984-48-8	
Sulfate	**222**	mg/L	5.0	2.5	5		02/25/24 06:27	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

Sample: YAT-PZ-52D **Lab ID: 92715031006** Collected: 02/21/24 10:58 Received: 02/22/24 09:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**8.7**	mg/L	0.50	0.15	1	02/29/24 13:55	03/04/24 12:36	7440-09-7	M1
Sodium	**42.9**	mg/L	1.0	0.58	1	02/29/24 13:55	03/04/24 12:36	7440-23-5	M1
Calcium	**24.5**	mg/L	1.0	0.12	1	02/29/24 13:55	03/04/24 12:36	7440-70-2	M1
Magnesium	**52.2**	mg/L	0.050	0.012	1	02/29/24 13:55	03/04/24 12:36	7439-95-4	M1
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/29/24 09:00	03/04/24 17:52	7440-36-0	
Arsenic	**0.0013J**	mg/L	0.0050	0.00084	1	02/29/24 09:00	03/04/24 17:52	7440-38-2	
Barium	**0.0091**	mg/L	0.0050	0.00047	1	02/29/24 09:00	03/04/24 17:52	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/29/24 09:00	03/04/24 17:52	7440-41-7	
Boron	**1.6**	mg/L	0.040	0.012	1	02/29/24 09:00	03/04/24 17:52	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/29/24 09:00	03/04/24 17:52	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/29/24 09:00	03/04/24 17:52	7440-47-3	
Cobalt	**0.0029J**	mg/L	0.0050	0.00032	1	02/29/24 09:00	03/04/24 17:52	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/29/24 09:00	03/04/24 17:52	7439-92-1	
Lithium	**0.027J**	mg/L	0.030	0.0016	1	02/29/24 09:00	03/04/24 17:52	7439-93-2	
Molybdenum	**0.0025J**	mg/L	0.010	0.00062	1	02/29/24 09:00	03/04/24 17:52	7439-98-7	
Selenium	**0.0099**	mg/L	0.0050	0.00096	1	02/29/24 09:00	03/04/24 17:52	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/29/24 09:00	03/04/24 17:52	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 19:30	03/08/24 08:59	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**557**	mg/L	25.0	25.0	1		02/28/24 13:54		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**28.2**	mg/L	5.0	5.0	1		02/29/24 18:59		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/29/24 18:59		
Alkalinity, Total as CaCO3	**28.2**	mg/L	5.0	5.0	1		02/29/24 18:59		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.6**	mg/L	1.0	0.60	1		02/24/24 20:28	16887-00-6	
Fluoride	**0.053J**	mg/L	0.10	0.050	1		02/24/24 20:28	16984-48-8	
Sulfate	**309**	mg/L	7.0	3.5	7		02/25/24 06:41	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

Sample: YAT-YGWC-38 **Lab ID: 92715031007** Collected: 02/22/24 09:48 Received: 02/23/24 09:18 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**3.9**	mg/L	0.50	0.15	1	02/29/24 14:43	03/04/24 17:26	7440-09-7	
Sodium	**19.1**	mg/L	1.0	0.58	1	02/29/24 14:43	03/04/24 17:26	7440-23-5	
Calcium	**49.7**	mg/L	1.0	0.12	1	02/29/24 14:43	03/04/24 17:26	7440-70-2	
Magnesium	**25.5**	mg/L	0.050	0.012	1	02/29/24 14:43	03/04/24 17:26	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/29/24 09:00	03/05/24 19:16	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/29/24 09:00	03/05/24 19:16	7440-38-2	
Barium	**0.015**	mg/L	0.0050	0.00047	1	02/29/24 09:00	03/05/24 19:16	7440-39-3	
Beryllium	**0.0019**	mg/L	0.00050	0.000094	1	02/29/24 09:00	03/06/24 13:14	7440-41-7	
Boron	**3.7**	mg/L	0.040	0.012	1	02/29/24 09:00	03/06/24 13:14	7440-42-8	
Cadmium	**0.00074**	mg/L	0.00050	0.00010	1	02/29/24 09:00	03/05/24 19:16	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/29/24 09:00	03/05/24 19:16	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/29/24 09:00	03/05/24 19:16	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/29/24 09:00	03/05/24 19:16	7439-92-1	
Lithium	**0.0058J**	mg/L	0.030	0.0016	1	02/29/24 09:00	03/05/24 19:16	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/29/24 09:00	03/05/24 19:16	7439-98-7	
Selenium	**0.048**	mg/L	0.0050	0.00096	1	02/29/24 09:00	03/05/24 19:16	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/29/24 09:00	03/05/24 19:16	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 19:30	03/08/24 09:02	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**8.6**	mg/L	5.0	5.0	1		03/05/24 15:05		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/05/24 15:05		
Alkalinity, Total as CaCO3	**8.6**	mg/L	5.0	5.0	1		03/05/24 15:05		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**403**	mg/L	25.0	25.0	1		02/25/24 12:31		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.7**	mg/L	1.0	0.60	1		02/26/24 22:50	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/26/24 22:50	16984-48-8	
Sulfate	**210**	mg/L	5.0	2.5	5		02/27/24 09:05	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

Sample: YAT-YGWC-41 **Lab ID: 92715031008** Collected: 02/22/24 15:33 Received: 02/23/24 09:18 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**2.5**	mg/L	0.50	0.15	1	02/29/24 14:43	03/04/24 17:29	7440-09-7	
Sodium	**15.0**	mg/L	1.0	0.58	1	02/29/24 14:43	03/04/24 17:29	7440-23-5	
Calcium	**14.4**	mg/L	1.0	0.12	1	02/29/24 14:43	03/04/24 17:29	7440-70-2	
Magnesium	**17.7**	mg/L	0.050	0.012	1	02/29/24 14:43	03/04/24 17:29	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/29/24 09:00	03/05/24 19:20	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/29/24 09:00	03/05/24 19:20	7440-38-2	
Barium	**0.019**	mg/L	0.0050	0.00047	1	02/29/24 09:00	03/05/24 19:20	7440-39-3	
Beryllium	**0.0014**	mg/L	0.00050	0.000094	1	02/29/24 09:00	03/06/24 13:19	7440-41-7	
Boron	**3.5**	mg/L	0.040	0.012	1	02/29/24 09:00	03/06/24 13:19	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/29/24 09:00	03/05/24 19:20	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/29/24 09:00	03/05/24 19:20	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/29/24 09:00	03/05/24 19:20	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/29/24 09:00	03/05/24 19:20	7439-92-1	
Lithium	**0.0026J**	mg/L	0.030	0.0016	1	02/29/24 09:00	03/05/24 19:20	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/29/24 09:00	03/05/24 19:20	7439-98-7	
Selenium	**0.021**	mg/L	0.0050	0.00096	1	02/29/24 09:00	03/05/24 19:20	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/29/24 09:00	03/05/24 19:20	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 19:30	03/08/24 09:04	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**6.6**	mg/L	5.0	5.0	1		03/05/24 15:10		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/05/24 15:10		
Alkalinity, Total as CaCO3	**6.6**	mg/L	5.0	5.0	1		03/05/24 15:10		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**224**	mg/L	25.0	25.0	1		02/25/24 12:31		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.9**	mg/L	1.0	0.60	1		02/26/24 23:04	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/26/24 23:04	16984-48-8	
Sulfate	**109**	mg/L	2.0	1.0	2		02/27/24 09:20	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

Sample: YAT-YGWC-42 **Lab ID: 92715031009** Collected: 02/22/24 17:08 Received: 02/23/24 09:18 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**12.0**	mg/L	0.50	0.15	1	02/29/24 14:43	03/04/24 17:37	7440-09-7	
Sodium	**38.0**	mg/L	1.0	0.58	1	02/29/24 14:43	03/04/24 17:37	7440-23-5	
Calcium	**73.5**	mg/L	1.0	0.12	1	02/29/24 14:43	03/04/24 17:37	7440-70-2	
Magnesium	**79.5**	mg/L	0.050	0.012	1	02/29/24 14:43	03/04/24 17:37	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/29/24 09:00	03/05/24 19:23	7440-36-0	
Arsenic	**0.0014J**	mg/L	0.0050	0.00084	1	02/29/24 09:00	03/05/24 19:23	7440-38-2	
Barium	**0.021**	mg/L	0.0050	0.00047	1	02/29/24 09:00	03/05/24 19:23	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/29/24 09:00	03/05/24 19:23	7440-41-7	
Boron	**15.5**	mg/L	2.0	0.60	50	02/29/24 09:00	03/06/24 13:23	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/29/24 09:00	03/05/24 19:23	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/29/24 09:00	03/05/24 19:23	7440-47-3	
Cobalt	**0.0023J**	mg/L	0.0050	0.00032	1	02/29/24 09:00	03/05/24 19:23	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/29/24 09:00	03/05/24 19:23	7439-92-1	
Lithium	**0.049**	mg/L	0.030	0.0016	1	02/29/24 09:00	03/06/24 14:29	7439-93-2	
Molybdenum	**0.00075J**	mg/L	0.010	0.00062	1	02/29/24 09:00	03/05/24 19:23	7439-98-7	
Selenium	**0.037**	mg/L	0.0050	0.00096	1	02/29/24 09:00	03/05/24 19:23	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/29/24 09:00	03/05/24 19:23	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 19:30	03/08/24 09:07	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**36.3**	mg/L	5.0	5.0	1		03/05/24 15:15		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/05/24 15:15		
Alkalinity, Total as CaCO3	**36.3**	mg/L	5.0	5.0	1		03/05/24 15:15		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**881**	mg/L	25.0	25.0	1		02/25/24 12:31		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.3**	mg/L	1.0	0.60	1		02/26/24 23:18	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/26/24 23:18	16984-48-8	
Sulfate	**487**	mg/L	10.0	5.0	10		02/27/24 09:34	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

Sample: YAT-YAMW-2 **Lab ID: 92715031010** Collected: 02/22/24 12:20 Received: 02/23/24 09:18 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**0.62**	mg/L	0.50	0.15	1	02/29/24 14:43	03/04/24 17:40	7440-09-7	
Sodium	**7.2**	mg/L	1.0	0.58	1	02/29/24 14:43	03/04/24 17:40	7440-23-5	
Calcium	**1.2**	mg/L	1.0	0.12	1	02/29/24 14:43	03/04/24 17:40	7440-70-2	
Magnesium	**2.2**	mg/L	0.050	0.012	1	02/29/24 14:43	03/04/24 17:40	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/29/24 09:00	03/07/24 16:31	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/29/24 09:00	03/07/24 16:31	7440-38-2	
Barium	**0.0068**	mg/L	0.0050	0.00047	1	02/29/24 09:00	03/07/24 16:31	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/29/24 09:00	03/07/24 16:31	7440-41-7	
Boron	**0.019J**	mg/L	0.040	0.012	1	02/29/24 09:00	03/07/24 16:31	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/29/24 09:00	03/07/24 16:31	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/29/24 09:00	03/07/24 16:31	7440-47-3	
Cobalt	**0.00044J**	mg/L	0.0050	0.00032	1	02/29/24 09:00	03/07/24 16:31	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/29/24 09:00	03/07/24 16:31	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	02/29/24 09:00	03/07/24 16:31	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/29/24 09:00	03/07/24 16:31	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/29/24 09:00	03/07/24 16:31	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/29/24 09:00	03/07/24 16:31	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 19:30	03/08/24 09:15	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**15.9**	mg/L	5.0	5.0	1		03/05/24 15:22		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/05/24 15:22		
Alkalinity, Total as CaCO3	**15.9**	mg/L	5.0	5.0	1		03/05/24 15:22		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**55.0**	mg/L	25.0	25.0	1		02/25/24 12:31		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.3**	mg/L	1.0	0.60	1		02/27/24 01:13	16887-00-6	
Fluoride	**0.050J**	mg/L	0.10	0.050	1		02/27/24 01:13	16984-48-8	
Sulfate	**6.2**	mg/L	1.0	0.50	1		02/27/24 01:13	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

Sample: YAT-YAMW-4 **Lab ID: 92715031011** Collected: 02/22/24 13:52 Received: 02/23/24 09:18 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**7.0**	mg/L	0.50	0.15	1	02/29/24 14:43	03/04/24 17:42	7440-09-7	
Sodium	**29.3**	mg/L	1.0	0.58	1	02/29/24 14:43	03/04/24 17:42	7440-23-5	
Calcium	**14.4**	mg/L	1.0	0.12	1	02/29/24 14:43	03/04/24 17:42	7440-70-2	
Magnesium	**48.3**	mg/L	0.050	0.012	1	02/29/24 14:43	03/04/24 17:42	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/29/24 09:00	03/05/24 19:31	7440-36-0	
Arsenic	**0.0010J**	mg/L	0.0050	0.00084	1	02/29/24 09:00	03/05/24 19:31	7440-38-2	
Barium	**0.0030J**	mg/L	0.0050	0.00047	1	02/29/24 09:00	03/05/24 19:31	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/29/24 09:00	03/05/24 19:31	7440-41-7	
Boron	**3.8**	mg/L	0.040	0.012	1	02/29/24 09:00	03/06/24 13:27	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/29/24 09:00	03/05/24 19:31	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/29/24 09:00	03/05/24 19:31	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/29/24 09:00	03/05/24 19:31	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/29/24 09:00	03/05/24 19:31	7439-92-1	
Lithium	**0.036**	mg/L	0.030	0.0016	1	02/29/24 09:00	03/06/24 13:27	7439-93-2	
Molybdenum	**0.0071J**	mg/L	0.010	0.00062	1	02/29/24 09:00	03/05/24 19:31	7439-98-7	
Selenium	**0.015**	mg/L	0.0050	0.00096	1	02/29/24 09:00	03/05/24 19:31	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/29/24 09:00	03/05/24 19:31	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 19:30	03/08/24 09:17	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**57.9**	mg/L	5.0	5.0	1		03/05/24 15:27		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/05/24 15:27		
Alkalinity, Total as CaCO3	**57.9**	mg/L	5.0	5.0	1		03/05/24 15:27		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**424**	mg/L	25.0	25.0	1		02/25/24 12:31		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.5**	mg/L	1.0	0.60	1		02/27/24 01:27	16887-00-6	
Fluoride	**0.061J**	mg/L	0.10	0.050	1		02/27/24 01:27	16984-48-8	
Sulfate	**208**	mg/L	5.0	2.5	5		02/27/24 10:17	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

Sample: YAT-YAMW-5 **Lab ID: 92715031012** Collected: 02/22/24 11:15 Received: 02/23/24 09:18 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**7.8**	mg/L	0.50	0.15	1	02/29/24 14:43	03/04/24 17:45	7440-09-7	
Sodium	**41.2**	mg/L	1.0	0.58	1	02/29/24 14:43	03/04/24 17:45	7440-23-5	
Calcium	**52.7**	mg/L	1.0	0.12	1	02/29/24 14:43	03/04/24 17:45	7440-70-2	
Magnesium	**50.9**	mg/L	0.050	0.012	1	02/29/24 14:43	03/04/24 17:45	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/29/24 09:00	03/05/24 14:33	7440-36-0	
Arsenic	**0.0011J**	mg/L	0.0050	0.00084	1	02/29/24 09:00	03/05/24 14:33	7440-38-2	
Barium	**0.035**	mg/L	0.0050	0.00047	1	02/29/24 09:00	03/05/24 14:33	7440-39-3	
Beryllium	**0.00013J**	mg/L	0.00050	0.000094	1	02/29/24 09:00	03/05/24 14:33	7440-41-7	
Boron	**6.7**	mg/L	0.040	0.012	1	02/29/24 09:00	03/05/24 14:33	7440-42-8	
Cadmium	**0.00022J**	mg/L	0.00050	0.00010	1	02/29/24 09:00	03/05/24 14:33	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/29/24 09:00	03/05/24 14:33	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/29/24 09:00	03/05/24 14:33	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/29/24 09:00	03/05/24 14:33	7439-92-1	
Lithium	**0.014J**	mg/L	0.030	0.0016	1	02/29/24 09:00	03/05/24 14:33	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/29/24 09:00	03/05/24 14:33	7439-98-7	
Selenium	**0.053**	mg/L	0.0050	0.00096	1	02/29/24 09:00	03/05/24 14:33	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/29/24 09:00	03/05/24 14:33	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 19:30	03/08/24 09:20	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		03/05/24 15:34		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/05/24 15:34		
Alkalinity, Total as CaCO3	**14.3**	mg/L	5.0	5.0	1		03/05/24 15:34		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**681**	mg/L	25.0	25.0	1		02/25/24 12:31		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.7**	mg/L	1.0	0.60	1		02/27/24 01:42	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/27/24 01:42	16984-48-8	
Sulfate	**369**	mg/L	8.0	4.0	8		02/27/24 10:31	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

Sample: YAT-AMA-R6-EB-1 **Lab ID: 92715031013** Collected: 02/22/24 14:40 Received: 02/23/24 09:18 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	ND	mg/L	0.50	0.15	1	02/29/24 14:43	03/04/24 17:48	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	02/29/24 14:43	03/04/24 17:48	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	02/29/24 14:43	03/04/24 17:48	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	02/29/24 14:43	03/04/24 17:48	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0012J**	mg/L	0.0030	0.00054	1	02/29/24 09:00	03/05/24 14:48	7440-36-0	
Arsenic	**0.00096J**	mg/L	0.0050	0.00084	1	02/29/24 09:00	03/05/24 14:48	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	02/29/24 09:00	03/05/24 14:48	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/29/24 09:00	03/05/24 14:48	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	02/29/24 09:00	03/06/24 14:11	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/29/24 09:00	03/05/24 14:48	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/29/24 09:00	03/05/24 14:48	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/29/24 09:00	03/05/24 14:48	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/29/24 09:00	03/05/24 14:48	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	02/29/24 09:00	03/06/24 14:11	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/29/24 09:00	03/05/24 14:48	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/29/24 09:00	03/05/24 14:48	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/29/24 09:00	03/05/24 14:48	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 19:30	03/08/24 09:23	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		03/05/24 15:40		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/05/24 15:40		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		03/05/24 15:40		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		02/25/24 12:31		
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		02/26/24 19:44	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/26/24 19:44	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/26/24 19:44	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

Sample: YAT-AMA-R6-FB-1 **Lab ID: 92715031014** Collected: 02/22/24 11:25 Received: 02/23/24 09:18 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	ND	mg/L	0.50	0.15	1	02/29/24 14:43	03/04/24 17:51	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	02/29/24 14:43	03/04/24 17:51	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	02/29/24 14:43	03/04/24 17:51	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	02/29/24 14:43	03/04/24 17:51	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.00059J**	mg/L	0.0030	0.00054	1	02/29/24 09:00	03/05/24 14:51	7440-36-0	
Arsenic	**0.00097J**	mg/L	0.0050	0.00084	1	02/29/24 09:00	03/05/24 14:51	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	02/29/24 09:00	03/05/24 14:51	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/29/24 09:00	03/05/24 14:51	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	02/29/24 09:00	03/07/24 15:55	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/29/24 09:00	03/05/24 14:51	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/29/24 09:00	03/05/24 14:51	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/29/24 09:00	03/05/24 14:51	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/29/24 09:00	03/05/24 14:51	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	02/29/24 09:00	03/05/24 14:51	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/29/24 09:00	03/05/24 14:51	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/29/24 09:00	03/05/24 14:51	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/29/24 09:00	03/05/24 14:51	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 19:30	03/08/24 09:25	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		03/05/24 16:45		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/05/24 16:45		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		03/05/24 16:45		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		02/25/24 12:31		
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		02/26/24 20:26	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/26/24 20:26	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/26/24 20:26	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

Sample: YAT-YGWC-43 **Lab ID: 92715031015** Collected: 02/22/24 16:51 Received: 02/23/24 09:18 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**6.7**	mg/L	0.50	0.15	1	02/29/24 14:43	03/04/24 17:53	7440-09-7	
Sodium	**19.1**	mg/L	1.0	0.58	1	02/29/24 14:43	03/04/24 17:53	7440-23-5	
Calcium	**10.5**	mg/L	1.0	0.12	1	02/29/24 14:43	03/04/24 17:53	7440-70-2	
Magnesium	**25.8**	mg/L	0.050	0.012	1	02/29/24 14:43	03/04/24 17:53	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/29/24 09:00	03/05/24 14:55	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/29/24 09:00	03/05/24 14:55	7440-38-2	
Barium	**0.028**	mg/L	0.0050	0.00047	1	02/29/24 09:00	03/05/24 14:55	7440-39-3	
Beryllium	**0.00032J**	mg/L	0.00050	0.000094	1	02/29/24 09:00	03/05/24 14:55	7440-41-7	
Boron	**2.3**	mg/L	0.040	0.012	1	02/29/24 09:00	03/05/24 14:55	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/29/24 09:00	03/05/24 14:55	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/29/24 09:00	03/05/24 14:55	7440-47-3	
Cobalt	**0.00038J**	mg/L	0.0050	0.00032	1	02/29/24 09:00	03/05/24 14:55	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/29/24 09:00	03/05/24 14:55	7439-92-1	
Lithium	**0.015J**	mg/L	0.030	0.0016	1	02/29/24 09:00	03/05/24 14:55	7439-93-2	
Molybdenum	**0.0016J**	mg/L	0.010	0.00062	1	02/29/24 09:00	03/05/24 14:55	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/29/24 09:00	03/05/24 14:55	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/29/24 09:00	03/05/24 14:55	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 19:30	03/08/24 09:28	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**35.5**	mg/L	5.0	5.0	1		03/05/24 17:02		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/05/24 17:02		
Alkalinity, Total as CaCO3	**35.5**	mg/L	5.0	5.0	1		03/05/24 17:02		M1
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**313**	mg/L	25.0	25.0	1		02/27/24 11:03		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.3**	mg/L	1.0	0.60	1		02/27/24 01:56	16887-00-6	
Fluoride	**0.091J**	mg/L	0.10	0.050	1		02/27/24 01:56	16984-48-8	
Sulfate	**147**	mg/L	3.0	1.5	3		02/27/24 10:45	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

Sample: YAT-PZ-51 **Lab ID: 92715031016** Collected: 02/22/24 17:30 Received: 02/23/24 09:18 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**4.5**	mg/L	0.50	0.15	1	02/29/24 14:43	03/04/24 17:56	7440-09-7	
Sodium	**17.7**	mg/L	1.0	0.58	1	02/29/24 14:43	03/04/24 17:56	7440-23-5	
Calcium	**54.8**	mg/L	1.0	0.12	1	02/29/24 14:43	03/04/24 17:56	7440-70-2	
Magnesium	**47.6**	mg/L	0.050	0.012	1	02/29/24 14:43	03/04/24 17:56	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/29/24 09:00	03/05/24 14:59	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/29/24 09:00	03/05/24 14:59	7440-38-2	
Barium	**0.015**	mg/L	0.0050	0.00047	1	02/29/24 09:00	03/05/24 14:59	7440-39-3	
Beryllium	**0.0029**	mg/L	0.00050	0.000094	1	02/29/24 09:00	03/05/24 14:59	7440-41-7	
Boron	**6.4**	mg/L	0.040	0.012	1	02/29/24 09:00	03/05/24 14:59	7440-42-8	
Cadmium	**0.0017**	mg/L	0.00050	0.00010	1	02/29/24 09:00	03/05/24 14:59	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/29/24 09:00	03/05/24 14:59	7440-47-3	
Cobalt	**0.0051**	mg/L	0.0050	0.00032	1	02/29/24 09:00	03/05/24 14:59	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/29/24 09:00	03/05/24 14:59	7439-92-1	
Lithium	**0.0050J**	mg/L	0.030	0.0016	1	02/29/24 09:00	03/05/24 14:59	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/29/24 09:00	03/05/24 14:59	7439-98-7	
Selenium	**0.024**	mg/L	0.0050	0.00096	1	02/29/24 09:00	03/05/24 14:59	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/29/24 09:00	03/05/24 14:59	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 19:30	03/08/24 09:31	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		03/05/24 17:20		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/05/24 17:20		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		03/05/24 17:20		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**556**	mg/L	25.0	25.0	1		02/27/24 11:03		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.3**	mg/L	1.0	0.60	1		02/27/24 02:10	16887-00-6	
Fluoride	**0.14**	mg/L	0.10	0.050	1		02/27/24 02:10	16984-48-8	
Sulfate	**309**	mg/L	7.0	3.5	7		02/27/24 10:59	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

Sample: YAT-YGWC-50 **Lab ID: 92715031017** Collected: 02/22/24 10:20 Received: 02/23/24 09:18 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**6.0**	mg/L	0.50	0.15	1	02/29/24 14:43	03/04/24 17:59	7440-09-7	
Sodium	**28.0**	mg/L	1.0	0.58	1	02/29/24 14:43	03/04/24 17:59	7440-23-5	
Calcium	**267**	mg/L	1.0	0.12	1	02/29/24 14:43	03/04/24 17:59	7440-70-2	
Magnesium	**126**	mg/L	0.050	0.012	1	02/29/24 14:43	03/04/24 17:59	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.00076J**	mg/L	0.0030	0.00054	1	02/29/24 09:00	03/05/24 15:37	7440-36-0	
Arsenic	**0.0016J**	mg/L	0.0050	0.00084	1	02/29/24 09:00	03/05/24 15:37	7440-38-2	
Barium	**0.018**	mg/L	0.0050	0.00047	1	02/29/24 09:00	03/05/24 15:37	7440-39-3	
Beryllium	**0.0049**	mg/L	0.00050	0.000094	1	02/29/24 09:00	03/05/24 15:37	7440-41-7	
Boron	**22.1**	mg/L	2.0	0.60	50	02/29/24 09:00	03/06/24 14:15	7440-42-8	
Cadmium	**0.011**	mg/L	0.00050	0.00010	1	02/29/24 09:00	03/05/24 15:37	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/29/24 09:00	03/05/24 15:37	7440-47-3	
Cobalt	**0.0063**	mg/L	0.0050	0.00032	1	02/29/24 09:00	03/05/24 15:37	7440-48-4	
Lead	**0.00021J**	mg/L	0.0010	0.00016	1	02/29/24 09:00	03/05/24 15:37	7439-92-1	
Lithium	**0.0036J**	mg/L	0.030	0.0016	1	02/29/24 09:00	03/05/24 15:37	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/29/24 09:00	03/05/24 15:37	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/29/24 09:00	03/05/24 15:37	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/29/24 09:00	03/05/24 15:37	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 19:30	03/08/24 09:33	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**25.7**	mg/L	5.0	5.0	1		03/05/24 17:35		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/05/24 17:35		
Alkalinity, Total as CaCO3	**25.7**	mg/L	5.0	5.0	1		03/05/24 17:35		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**1930**	mg/L	50.0	50.0	1		02/27/24 11:03		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**9.8**	mg/L	1.0	0.60	1		02/27/24 02:24	16887-00-6	
Fluoride	**0.14**	mg/L	0.10	0.050	1		02/27/24 02:24	16984-48-8	
Sulfate	**1170**	mg/L	24.0	12.0	24		02/27/24 11:41	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

Sample: YAT-PZ-55 **Lab ID: 92715031018** Collected: 02/22/24 14:39 Received: 02/23/24 09:18 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**4.5**	mg/L	0.50	0.15	1	02/29/24 14:43	03/04/24 18:01	7440-09-7	
Sodium	**18.2**	mg/L	1.0	0.58	1	02/29/24 14:43	03/04/24 18:01	7440-23-5	
Calcium	**22.5**	mg/L	1.0	0.12	1	02/29/24 14:43	03/04/24 18:01	7440-70-2	
Magnesium	**21.0**	mg/L	0.050	0.012	1	02/29/24 14:43	03/04/24 18:01	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/29/24 09:00	03/05/24 15:40	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/29/24 09:00	03/05/24 15:40	7440-38-2	
Barium	**0.045**	mg/L	0.0050	0.00047	1	02/29/24 09:00	03/05/24 15:40	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/29/24 09:00	03/05/24 15:40	7440-41-7	
Boron	**3.5**	mg/L	0.040	0.012	1	02/29/24 09:00	03/05/24 15:40	7440-42-8	
Cadmium	**0.00069**	mg/L	0.00050	0.00010	1	02/29/24 09:00	03/05/24 15:40	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/29/24 09:00	03/05/24 15:40	7440-47-3	
Cobalt	**0.0041J**	mg/L	0.0050	0.00032	1	02/29/24 09:00	03/05/24 15:40	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/29/24 09:00	03/05/24 15:40	7439-92-1	
Lithium	**0.0034J**	mg/L	0.030	0.0016	1	02/29/24 09:00	03/05/24 15:40	7439-93-2	
Molybdenum	**0.00082J**	mg/L	0.010	0.00062	1	02/29/24 09:00	03/05/24 15:40	7439-98-7	
Selenium	**0.019**	mg/L	0.0050	0.00096	1	02/29/24 09:00	03/05/24 15:40	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/29/24 09:00	03/05/24 15:40	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 19:30	03/08/24 09:36	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**27.0**	mg/L	5.0	5.0	1		03/05/24 17:44		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/05/24 17:44		
Alkalinity, Total as CaCO3	**27.0**	mg/L	5.0	5.0	1		03/05/24 17:44		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**297**	mg/L	25.0	25.0	1		02/27/24 11:03		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.7**	mg/L	1.0	0.60	1		02/27/24 03:07	16887-00-6	
Fluoride	**0.065J**	mg/L	0.10	0.050	1		02/27/24 03:07	16984-48-8	
Sulfate	**139**	mg/L	3.0	1.5	3		02/27/24 11:56	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

Sample: YAT-YAMW-1 **Lab ID: 92715031019** Collected: 02/23/24 09:20 Received: 02/24/24 11:33 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**7.6**	mg/L	0.50	0.15	1	02/29/24 15:04	03/04/24 16:20	7440-09-7	
Sodium	**24.0**	mg/L	1.0	0.58	1	02/29/24 15:04	03/04/24 16:20	7440-23-5	
Calcium	**46.3**	mg/L	1.0	0.12	1	02/29/24 15:04	03/04/24 16:20	7440-70-2	
Magnesium	**36.5**	mg/L	0.050	0.012	1	02/29/24 15:04	03/04/24 16:20	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0023J**	mg/L	0.0030	0.00054	1	02/29/24 09:00	03/05/24 20:07	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/29/24 09:00	03/05/24 20:07	7440-38-2	
Barium	**0.087**	mg/L	0.0050	0.00047	1	02/29/24 09:00	03/05/24 20:07	7440-39-3	
Beryllium	**0.00015J**	mg/L	0.00050	0.000094	1	02/29/24 09:00	03/05/24 20:07	7440-41-7	
Boron	**1.5**	mg/L	0.040	0.012	1	02/29/24 09:00	03/05/24 20:07	7440-42-8	
Cadmium	**0.00023J**	mg/L	0.00050	0.00010	1	02/29/24 09:00	03/05/24 20:07	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/29/24 09:00	03/05/24 20:07	7440-47-3	
Cobalt	**0.0044J**	mg/L	0.0050	0.00032	1	02/29/24 09:00	03/05/24 20:07	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/29/24 09:00	03/05/24 20:07	7439-92-1	
Lithium	**0.017J**	mg/L	0.030	0.0016	1	02/29/24 09:00	03/05/24 20:07	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/29/24 09:00	03/05/24 20:07	7439-98-7	
Selenium	**0.0056**	mg/L	0.0050	0.00096	1	02/29/24 09:00	03/05/24 20:07	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/29/24 09:00	03/05/24 20:07	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 19:30	03/08/24 09:38	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**20.9**	mg/L	5.0	5.0	1		03/05/24 18:59		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/05/24 18:59		
Alkalinity, Total as CaCO3	**20.9**	mg/L	5.0	5.0	1		03/05/24 18:59		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**454**	mg/L	25.0	25.0	1		02/28/24 11:29		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.2**	mg/L	1.0	0.60	1		02/27/24 06:56	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/27/24 06:56	16984-48-8	
Sulfate	**237**	mg/L	5.0	2.5	5		02/27/24 12:24	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

Sample: YAT-AMA-R6-FD-1 **Lab ID: 92715031020** Collected: 02/23/24 00:00 Received: 02/24/24 11:33 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**7.5**	mg/L	0.50	0.15	1	02/29/24 15:04	03/04/24 16:23	7440-09-7	
Sodium	**23.7**	mg/L	1.0	0.58	1	02/29/24 15:04	03/04/24 16:23	7440-23-5	
Calcium	**46.1**	mg/L	1.0	0.12	1	02/29/24 15:04	03/04/24 16:23	7440-70-2	
Magnesium	**36.6**	mg/L	0.050	0.012	1	02/29/24 15:04	03/04/24 16:23	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.00064J**	mg/L	0.0030	0.00054	1	02/29/24 09:00	03/05/24 20:12	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/29/24 09:00	03/05/24 20:12	7440-38-2	
Barium	**0.086**	mg/L	0.0050	0.00047	1	02/29/24 09:00	03/05/24 20:12	7440-39-3	
Beryllium	**0.00015J**	mg/L	0.00050	0.000094	1	02/29/24 09:00	03/05/24 20:12	7440-41-7	
Boron	**1.5**	mg/L	0.040	0.012	1	02/29/24 09:00	03/05/24 20:12	7440-42-8	
Cadmium	**0.00023J**	mg/L	0.00050	0.00010	1	02/29/24 09:00	03/05/24 20:12	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/29/24 09:00	03/05/24 20:12	7440-47-3	
Cobalt	**0.0045J**	mg/L	0.0050	0.00032	1	02/29/24 09:00	03/05/24 20:12	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/29/24 09:00	03/05/24 20:12	7439-92-1	
Lithium	**0.018J**	mg/L	0.030	0.0016	1	02/29/24 09:00	03/05/24 20:12	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/29/24 09:00	03/05/24 20:12	7439-98-7	
Selenium	**0.0062**	mg/L	0.0050	0.00096	1	02/29/24 09:00	03/05/24 20:12	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/29/24 09:00	03/05/24 20:12	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 19:30	03/08/24 09:46	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**21.1**	mg/L	5.0	5.0	1		03/06/24 15:04		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/06/24 15:04		
Alkalinity, Total as CaCO3	**21.1**	mg/L	5.0	5.0	1		03/06/24 15:04		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**455**	mg/L	25.0	25.0	1		02/28/24 11:30		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.2**	mg/L	1.0	0.60	1		02/27/24 07:11	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/27/24 07:11	16984-48-8	
Sulfate	**241**	mg/L	5.0	2.5	5		02/27/24 12:38	14808-79-8	M1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

Sample: YAT-YGWC-36A **Lab ID: 92715031021** Collected: 02/23/24 14:24 Received: 02/24/24 11:33 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**2.3**	mg/L	0.50	0.15	1	02/29/24 15:04	03/04/24 16:26	7440-09-7	
Sodium	**28.3**	mg/L	1.0	0.58	1	02/29/24 15:04	03/04/24 16:26	7440-23-5	
Calcium	**33.6**	mg/L	1.0	0.12	1	02/29/24 15:04	03/04/24 16:26	7440-70-2	
Magnesium	**15.1**	mg/L	0.050	0.012	1	02/29/24 15:04	03/04/24 16:26	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/29/24 09:00	03/05/24 20:16	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/29/24 09:00	03/05/24 20:16	7440-38-2	
Barium	**0.13**	mg/L	0.0050	0.00047	1	02/29/24 09:00	03/05/24 20:16	7440-39-3	
Beryllium	**0.0018**	mg/L	0.00050	0.000094	1	02/29/24 09:00	03/05/24 20:16	7440-41-7	
Boron	**0.11**	mg/L	0.040	0.012	1	02/29/24 09:00	03/05/24 20:16	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/29/24 09:00	03/05/24 20:16	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/29/24 09:00	03/05/24 20:16	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/29/24 09:00	03/05/24 20:16	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/29/24 09:00	03/05/24 20:16	7439-92-1	
Lithium	**0.0017J**	mg/L	0.030	0.0016	1	02/29/24 09:00	03/05/24 20:16	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/29/24 09:00	03/05/24 20:16	7439-98-7	
Selenium	**0.0050J**	mg/L	0.0050	0.00096	1	02/29/24 09:00	03/05/24 20:16	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/29/24 09:00	03/05/24 20:16	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 13:00	03/08/24 08:07	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**6.8**	mg/L	5.0	5.0	1		03/06/24 15:21		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/06/24 15:21		
Alkalinity, Total as CaCO3	**6.8**	mg/L	5.0	5.0	1		03/06/24 15:21		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**308**	mg/L	25.0	25.0	1		02/28/24 11:30		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.8**	mg/L	1.0	0.60	1		02/27/24 07:54	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/27/24 07:54	16984-48-8	
Sulfate	**156**	mg/L	3.0	1.5	3		02/27/24 13:20	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

Sample: YAT-YGWC-24SB **Lab ID: 92715031022** Collected: 02/23/24 13:08 Received: 02/24/24 11:33 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**1.2**	mg/L	0.50	0.15	1	02/29/24 15:04	03/04/24 16:34	7440-09-7	B
Sodium	**9.9**	mg/L	1.0	0.58	1	02/29/24 15:04	03/04/24 16:34	7440-23-5	
Calcium	**2.6**	mg/L	1.0	0.12	1	02/29/24 15:04	03/04/24 16:34	7440-70-2	
Magnesium	**2.2**	mg/L	0.050	0.012	1	02/29/24 15:04	03/04/24 16:34	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/29/24 09:00	03/05/24 20:20	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/29/24 09:00	03/05/24 20:20	7440-38-2	
Barium	**0.032**	mg/L	0.0050	0.00047	1	02/29/24 09:00	03/05/24 20:20	7440-39-3	
Beryllium	**0.00015J**	mg/L	0.00050	0.000094	1	02/29/24 09:00	03/05/24 20:20	7440-41-7	
Boron	**0.016J**	mg/L	0.040	0.012	1	02/29/24 09:00	03/05/24 20:20	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/29/24 09:00	03/05/24 20:20	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/29/24 09:00	03/05/24 20:20	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/29/24 09:00	03/05/24 20:20	7440-48-4	
Lead	**0.00029J**	mg/L	0.0010	0.00016	1	02/29/24 09:00	03/05/24 20:20	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	02/29/24 09:00	03/05/24 20:20	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/29/24 09:00	03/05/24 20:20	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/29/24 09:00	03/05/24 20:20	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/29/24 09:00	03/05/24 20:20	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 13:00	03/08/24 08:10	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**11.5**	mg/L	5.0	5.0	1		03/06/24 15:36		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/06/24 15:36		
Alkalinity, Total as CaCO3	**11.5**	mg/L	5.0	5.0	1		03/06/24 15:36		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**75.0**	mg/L	25.0	25.0	1		02/28/24 11:30		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**8.3**	mg/L	1.0	0.60	1		02/27/24 08:08	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/27/24 08:08	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/27/24 08:08	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

Sample: YAT-PZ-35 **Lab ID: 92715031023** Collected: 02/23/24 11:10 Received: 02/24/24 11:33 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**2.4**	mg/L	0.50	0.15	1	02/29/24 15:04	03/04/24 16:36	7440-09-7	
Sodium	**19.2**	mg/L	1.0	0.58	1	02/29/24 15:04	03/04/24 16:36	7440-23-5	
Calcium	**31.1**	mg/L	1.0	0.12	1	02/29/24 15:04	03/04/24 16:36	7440-70-2	
Magnesium	**16.6**	mg/L	0.050	0.012	1	02/29/24 15:04	03/04/24 16:36	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/29/24 09:00	03/05/24 20:32	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/29/24 09:00	03/05/24 20:32	7440-38-2	
Barium	**0.21**	mg/L	0.0050	0.00047	1	02/29/24 09:00	03/05/24 20:32	7440-39-3	
Beryllium	**0.0015**	mg/L	0.00050	0.000094	1	02/29/24 09:00	03/05/24 20:32	7440-41-7	
Boron	**0.20**	mg/L	0.040	0.012	1	02/29/24 09:00	03/05/24 20:32	7440-42-8	
Cadmium	**0.00027J**	mg/L	0.00050	0.00010	1	02/29/24 09:00	03/05/24 20:32	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/29/24 09:00	03/05/24 20:32	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/29/24 09:00	03/05/24 20:32	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/29/24 09:00	03/05/24 20:32	7439-92-1	
Lithium	**0.0032J**	mg/L	0.030	0.0016	1	02/29/24 09:00	03/05/24 20:32	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/29/24 09:00	03/05/24 20:32	7439-98-7	
Selenium	**0.0035J**	mg/L	0.0050	0.00096	1	02/29/24 09:00	03/05/24 20:32	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/29/24 09:00	03/05/24 20:32	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 13:00	03/08/24 08:13	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**6.7**	mg/L	5.0	5.0	1		03/06/24 15:52		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/06/24 15:52		
Alkalinity, Total as CaCO3	**6.7**	mg/L	5.0	5.0	1		03/06/24 15:52		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**299**	mg/L	25.0	25.0	1		02/28/24 11:30		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.8**	mg/L	1.0	0.60	1		02/27/24 08:51	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/27/24 08:51	16984-48-8	
Sulfate	**148**	mg/L	3.0	1.5	3		02/27/24 13:35	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

QC Batch: 835845
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92715031001, 92715031002, 92715031003, 92715031004, 92715031005

METHOD BLANK: 4318130 Matrix: Water
Associated Lab Samples: 92715031001, 92715031002, 92715031003, 92715031004, 92715031005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	03/04/24 09:50	
Magnesium	mg/L	ND	0.050	0.012	03/04/24 09:50	
Potassium	mg/L	ND	0.50	0.15	03/04/24 09:50	
Sodium	mg/L	ND	1.0	0.58	03/04/24 09:50	

LABORATORY CONTROL SAMPLE: 4318131

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	104	80-120	
Magnesium	mg/L	1	1.1	108	80-120	
Potassium	mg/L	1	1.1	106	80-120	
Sodium	mg/L	1	1.1	110	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4318132 4318133

Parameter	Units	92715026002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	31.6	1	1	31.9	32.0	33	40	75-125	0	20	M1
Magnesium	mg/L	27.1	1	1	27.7	28.0	60	89	75-125	1	20	M1
Potassium	mg/L	3.9	1	1	4.9	5.0	95	104	75-125	2	20	
Sodium	mg/L	16.9	1	1	17.7	18.0	87	111	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

QC Batch: 835861
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92715031006

METHOD BLANK: 4318215 Matrix: Water

Associated Lab Samples: 92715031006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	03/04/24 12:31	
Magnesium	mg/L	ND	0.050	0.012	03/04/24 12:31	
Potassium	mg/L	ND	0.50	0.15	03/04/24 12:31	
Sodium	mg/L	ND	1.0	0.58	03/04/24 12:31	

LABORATORY CONTROL SAMPLE: 4318216

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	102	80-120	
Magnesium	mg/L	1	1.1	105	80-120	
Potassium	mg/L	1	1.0	101	80-120	
Sodium	mg/L	1	1.1	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4318217 4318218

Parameter	Units	92715031006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	24.5	1	1	25.8	26.0	134	156	75-125	1	20	M1
Magnesium	mg/L	52.2	1	1	54.3	53.9	210	173	75-125	1	20	M1
Potassium	mg/L	8.7	1	1	10	9.9	129	124	75-125	0	20	M1
Sodium	mg/L	42.9	1	1	45.0	44.5	209	156	75-125	1	20	M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

QC Batch: 835873
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92715031007, 92715031008, 92715031009, 92715031010, 92715031011, 92715031012, 92715031013, 92715031014, 92715031015, 92715031016, 92715031017, 92715031018

METHOD BLANK: 4318271 Matrix: Water
Associated Lab Samples: 92715031007, 92715031008, 92715031009, 92715031010, 92715031011, 92715031012, 92715031013, 92715031014, 92715031015, 92715031016, 92715031017, 92715031018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	03/04/24 17:06	
Magnesium	mg/L	ND	0.050	0.012	03/04/24 17:06	
Potassium	mg/L	ND	0.50	0.15	03/04/24 17:06	
Sodium	mg/L	ND	1.0	0.58	03/04/24 17:06	

LABORATORY CONTROL SAMPLE: 4318272

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	106	80-120	
Magnesium	mg/L	1	1.1	110	80-120	
Potassium	mg/L	1	1.1	111	80-120	
Sodium	mg/L	1	1.2	117	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4318273 4318274

Parameter	Units	92715157005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	0.78J	1	1	1.8	1.8	100	102	75-125	1	20	
Magnesium	mg/L	0.34	1	1	1.4	1.4	106	107	75-125	1	20	
Potassium	mg/L	0.30J	1	1	1.3	1.3	99	103	75-125	3	20	
Sodium	mg/L	1.0	1	1	2.0	2.0	97	101	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

QC Batch: 835886
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92715031019, 92715031020, 92715031021, 92715031022, 92715031023

METHOD BLANK: 4318385 Matrix: Water
Associated Lab Samples: 92715031019, 92715031020, 92715031021, 92715031022, 92715031023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	03/04/24 15:38	
Magnesium	mg/L	ND	0.050	0.012	03/04/24 15:38	
Potassium	mg/L	0.19J	0.50	0.15	03/04/24 15:38	
Sodium	mg/L	ND	1.0	0.58	03/05/24 18:18	

LABORATORY CONTROL SAMPLE: 4318386

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	103	80-120	
Magnesium	mg/L	1	1.1	107	80-120	
Potassium	mg/L	1	1.1	114	80-120	
Sodium	mg/L	1	1.1	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4318387 4318388

Parameter	Units	92714723025 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	0.84J	1	1	1.9	1.8	109	99	75-125	5	20	
Magnesium	mg/L	1.0	1	1	2.1	2.0	113	103	75-125	5	20	
Potassium	mg/L	0.62	1	1	1.7	1.6	106	95	75-125	7	20	
Sodium	mg/L	8.6	1	1	10.3	9.9	169	129	75-125	4	20	M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

QC Batch: 835669
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92715031001, 92715031002, 92715031003, 92715031004, 92715031005, 92715031006

METHOD BLANK: 4317353 Matrix: Water
Associated Lab Samples: 92715031001, 92715031002, 92715031003, 92715031004, 92715031005, 92715031006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	03/04/24 16:27	
Arsenic	mg/L	ND	0.0050	0.00084	03/04/24 16:27	
Barium	mg/L	ND	0.0050	0.00047	03/04/24 16:27	
Beryllium	mg/L	ND	0.00050	0.000094	03/04/24 16:27	
Boron	mg/L	ND	0.040	0.012	03/04/24 16:27	
Cadmium	mg/L	ND	0.00050	0.00010	03/04/24 16:27	
Chromium	mg/L	ND	0.0050	0.0019	03/04/24 16:27	
Cobalt	mg/L	ND	0.0050	0.00032	03/04/24 16:27	
Lead	mg/L	ND	0.0010	0.00016	03/04/24 16:27	
Lithium	mg/L	ND	0.030	0.0016	03/04/24 16:27	
Molybdenum	mg/L	ND	0.010	0.00062	03/04/24 16:27	
Selenium	mg/L	ND	0.0050	0.00096	03/04/24 16:27	
Thallium	mg/L	ND	0.0010	0.00038	03/04/24 16:27	

LABORATORY CONTROL SAMPLE: 4317354

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	106	80-120	
Arsenic	mg/L	0.1	0.10	102	80-120	
Barium	mg/L	0.1	0.10	102	80-120	
Beryllium	mg/L	0.1	0.11	107	80-120	
Boron	mg/L	1	1.0	100	80-120	
Cadmium	mg/L	0.1	0.10	104	80-120	
Chromium	mg/L	0.1	0.10	102	80-120	
Cobalt	mg/L	0.1	0.10	101	80-120	
Lead	mg/L	0.1	0.10	101	80-120	
Lithium	mg/L	0.1	0.10	104	80-120	
Molybdenum	mg/L	0.1	0.10	100	80-120	
Selenium	mg/L	0.1	0.099	99	80-120	
Thallium	mg/L	0.1	0.10	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4317355 4317356

Parameter	Units	92715028001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	102	101	75-125	1	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	101	101	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4317355 4317356

Parameter	Units	92715028001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.047	0.1	0.1	0.15	0.15	104	102	75-125	1	20	
Beryllium	mg/L	ND	0.1	0.1	0.096	0.096	96	96	75-125	1	20	
Boron	mg/L	0.91	1	1	1.9	1.8	96	94	75-125	1	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	101	102	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.099	0.099	99	99	75-125	0	20	
Cobalt	mg/L	0.0016J	0.1	0.1	0.10	0.099	99	98	75-125	2	20	
Lead	mg/L	ND	0.1	0.1	0.096	0.095	96	95	75-125	1	20	
Lithium	mg/L	ND	0.1	0.1	0.094	0.096	94	96	75-125	2	20	
Molybdenum	mg/L	ND	0.1	0.1	0.097	0.096	97	96	75-125	1	20	
Selenium	mg/L	ND	0.1	0.1	0.099	0.099	99	99	75-125	0	20	
Thallium	mg/L	ND	0.1	0.1	0.096	0.095	96	95	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

QC Batch: 835670
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92715031007, 92715031008, 92715031009, 92715031010, 92715031011

METHOD BLANK: 4317357 Matrix: Water
Associated Lab Samples: 92715031007, 92715031008, 92715031009, 92715031010, 92715031011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	03/05/24 17:46	
Arsenic	mg/L	ND	0.0050	0.00084	03/05/24 17:46	
Barium	mg/L	ND	0.0050	0.00047	03/05/24 17:46	
Beryllium	mg/L	ND	0.00050	0.000094	03/05/24 17:46	
Boron	mg/L	ND	0.040	0.012	03/05/24 17:46	
Cadmium	mg/L	ND	0.00050	0.00010	03/05/24 17:46	
Chromium	mg/L	ND	0.0050	0.0019	03/05/24 17:46	
Cobalt	mg/L	ND	0.0050	0.00032	03/05/24 17:46	
Lead	mg/L	ND	0.0010	0.00016	03/05/24 17:46	
Lithium	mg/L	ND	0.030	0.0016	03/05/24 17:46	
Molybdenum	mg/L	ND	0.010	0.00062	03/05/24 17:46	
Selenium	mg/L	ND	0.0050	0.00096	03/05/24 17:46	
Thallium	mg/L	ND	0.0010	0.00038	03/05/24 17:46	

LABORATORY CONTROL SAMPLE: 4317358

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	0.096	96	80-120	
Barium	mg/L	0.1	0.093	93	80-120	
Beryllium	mg/L	0.1	0.11	106	80-120	
Boron	mg/L	1	1.0	102	80-120	
Cadmium	mg/L	0.1	0.098	98	80-120	
Chromium	mg/L	0.1	0.095	95	80-120	
Cobalt	mg/L	0.1	0.094	94	80-120	
Lead	mg/L	0.1	0.095	95	80-120	
Lithium	mg/L	0.1	0.11	106	80-120	
Molybdenum	mg/L	0.1	0.096	96	80-120	
Selenium	mg/L	0.1	0.095	95	80-120	
Thallium	mg/L	0.1	0.093	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4317359 4317360

Parameter	Units	92714437016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	101	100	75-125	1	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.099	102	98	75-125	4	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4317359 4317360

Parameter	Units	92714437016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.011	0.1	0.1	0.11	0.11	98	97	75-125	2	20	
Beryllium	mg/L	ND	0.1	0.1	0.10	0.099	103	99	75-125	4	20	
Boron	mg/L	ND	1	1	1.0	0.98	103	97	75-125	6	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.098	103	98	75-125	4	20	
Chromium	mg/L	0.0066	0.1	0.1	0.11	0.10	100	98	75-125	2	20	
Cobalt	mg/L	ND	0.1	0.1	0.099	0.096	99	96	75-125	3	20	
Lead	mg/L	ND	0.1	0.1	0.095	0.092	95	92	75-125	3	20	
Lithium	mg/L	ND	0.1	0.1	0.10	0.10	104	103	75-125	1	20	
Molybdenum	mg/L	0.0011J	0.1	0.1	0.099	0.098	98	97	75-125	1	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.098	101	98	75-125	3	20	
Thallium	mg/L	ND	0.1	0.1	0.094	0.091	94	91	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

QC Batch: 835671 | Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A | Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92715031012, 92715031013, 92715031014, 92715031015, 92715031016, 92715031017, 92715031018

METHOD BLANK: 4317361 Matrix: Water
Associated Lab Samples: 92715031012, 92715031013, 92715031014, 92715031015, 92715031016, 92715031017, 92715031018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	03/05/24 14:25	
Arsenic	mg/L	ND	0.0050	0.00084	03/05/24 14:25	
Barium	mg/L	ND	0.0050	0.00047	03/05/24 14:25	
Beryllium	mg/L	ND	0.00050	0.000094	03/05/24 14:25	
Boron	mg/L	ND	0.040	0.012	03/05/24 14:25	
Cadmium	mg/L	ND	0.00050	0.00010	03/05/24 14:25	
Chromium	mg/L	ND	0.0050	0.0019	03/05/24 14:25	
Cobalt	mg/L	ND	0.0050	0.00032	03/05/24 14:25	
Lead	mg/L	ND	0.0010	0.00016	03/05/24 14:25	
Lithium	mg/L	ND	0.030	0.0016	03/05/24 14:25	
Molybdenum	mg/L	ND	0.010	0.00062	03/05/24 14:25	
Selenium	mg/L	ND	0.0050	0.00096	03/05/24 14:25	
Thallium	mg/L	ND	0.0010	0.00038	03/05/24 14:25	

LABORATORY CONTROL SAMPLE: 4317362

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	104	80-120	
Arsenic	mg/L	0.1	0.10	101	80-120	
Barium	mg/L	0.1	0.10	100	80-120	
Beryllium	mg/L	0.1	0.11	105	80-120	
Boron	mg/L	1	1.0	103	80-120	
Cadmium	mg/L	0.1	0.10	101	80-120	
Chromium	mg/L	0.1	0.10	101	80-120	
Cobalt	mg/L	0.1	0.10	101	80-120	
Lead	mg/L	0.1	0.10	101	80-120	
Lithium	mg/L	0.1	0.11	106	80-120	
Molybdenum	mg/L	0.1	0.10	100	80-120	
Selenium	mg/L	0.1	0.10	101	80-120	
Thallium	mg/L	0.1	0.099	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4317363 4317364

Parameter	Units	92715031012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	103	105	75-125	2	20	
Arsenic	mg/L	0.0011J	0.1	0.1	0.11	0.11	104	107	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4317363 4317364

Parameter	Units	92715031012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.035	0.1	0.1	0.14	0.14	101	104	75-125	2	20	
Beryllium	mg/L	0.00013J	0.1	0.1	0.091	0.092	91	92	75-125	1	20	
Boron	mg/L	6.7	1	1	7.6	7.6	89	87	75-125	0	20	
Cadmium	mg/L	0.00022J	0.1	0.1	0.10	0.10	102	104	75-125	2	20	
Chromium	mg/L	ND	0.1	0.1	0.11	0.11	105	107	75-125	2	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.11	103	106	75-125	3	20	
Lead	mg/L	ND	0.1	0.1	0.094	0.095	94	95	75-125	1	20	
Lithium	mg/L	0.014J	0.1	0.1	0.11	0.11	92	94	75-125	2	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	100	104	75-125	4	20	
Selenium	mg/L	0.053	0.1	0.1	0.16	0.16	102	105	75-125	2	20	
Thallium	mg/L	ND	0.1	0.1	0.093	0.095	93	95	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

QC Batch: 835672
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92715031019, 92715031020, 92715031021, 92715031022, 92715031023

METHOD BLANK: 4317365 Matrix: Water
Associated Lab Samples: 92715031019, 92715031020, 92715031021, 92715031022, 92715031023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	03/05/24 19:43	
Arsenic	mg/L	ND	0.0050	0.00084	03/05/24 19:43	
Barium	mg/L	ND	0.0050	0.00047	03/05/24 19:43	
Beryllium	mg/L	ND	0.00050	0.000094	03/05/24 19:43	
Boron	mg/L	ND	0.040	0.012	03/05/24 19:43	
Cadmium	mg/L	ND	0.00050	0.00010	03/05/24 19:43	
Chromium	mg/L	ND	0.0050	0.0019	03/05/24 19:43	
Cobalt	mg/L	ND	0.0050	0.00032	03/05/24 19:43	
Lead	mg/L	ND	0.0010	0.00016	03/05/24 19:43	
Lithium	mg/L	ND	0.030	0.0016	03/05/24 19:43	
Molybdenum	mg/L	ND	0.010	0.00062	03/05/24 19:43	
Selenium	mg/L	ND	0.0050	0.00096	03/05/24 19:43	
Thallium	mg/L	ND	0.0010	0.00038	03/05/24 19:43	

LABORATORY CONTROL SAMPLE: 4317366

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.098	98	80-120	
Arsenic	mg/L	0.1	0.097	97	80-120	
Barium	mg/L	0.1	0.097	97	80-120	
Beryllium	mg/L	0.1	0.096	96	80-120	
Boron	mg/L	1	0.98	98	80-120	
Cadmium	mg/L	0.1	0.095	95	80-120	
Chromium	mg/L	0.1	0.091	91	80-120	
Cobalt	mg/L	0.1	0.091	91	80-120	
Lead	mg/L	0.1	0.097	97	80-120	
Lithium	mg/L	0.1	0.098	98	80-120	
Molybdenum	mg/L	0.1	0.093	93	80-120	
Selenium	mg/L	0.1	0.097	97	80-120	
Thallium	mg/L	0.1	0.096	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4317367 4317368

Parameter	Units	92714726009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.099	0.098	99	97	75-125	2	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.099	100	99	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4317367 4317368

Parameter	Units	92714726009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.020	0.1	0.1	0.12	0.12	99	98	75-125	1	20	
Beryllium	mg/L	ND	0.1	0.1	0.091	0.091	91	91	75-125	1	20	
Boron	mg/L	1.9	1	1	2.8	2.8	94	96	75-125	1	20	
Cadmium	mg/L	ND	0.1	0.1	0.095	0.098	95	97	75-125	3	20	
Chromium	mg/L	ND	0.1	0.1	0.094	0.094	93	94	75-125	0	20	
Cobalt	mg/L	0.0018J	0.1	0.1	0.094	0.095	93	93	75-125	0	20	
Lead	mg/L	ND	0.1	0.1	0.094	0.094	94	94	75-125	1	20	
Lithium	mg/L	ND	0.1	0.1	0.091	0.092	90	92	75-125	2	20	
Molybdenum	mg/L	ND	0.1	0.1	0.094	0.092	94	92	75-125	2	20	
Selenium	mg/L	0.0013J	0.1	0.1	0.10	0.10	99	99	75-125	0	20	
Thallium	mg/L	ND	0.1	0.1	0.093	0.093	93	92	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

QC Batch: 837279
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92715031021, 92715031022, 92715031023

METHOD BLANK: 4325334 Matrix: Water
Associated Lab Samples: 92715031021, 92715031022, 92715031023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	03/07/24 16:06	

LABORATORY CONTROL SAMPLE: 4325335

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4325336 4325337

Parameter	Units	92714726001 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	0.0023	103	93	75-125	10	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

QC Batch: 837385
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92715031001, 92715031002, 92715031003, 92715031004, 92715031005, 92715031006, 92715031007, 92715031008, 92715031009, 92715031010, 92715031011, 92715031012, 92715031013, 92715031014, 92715031015, 92715031016, 92715031017, 92715031018, 92715031019, 92715031020

METHOD BLANK: 4325910 Matrix: Water
Associated Lab Samples: 92715031001, 92715031002, 92715031003, 92715031004, 92715031005, 92715031006, 92715031007, 92715031008, 92715031009, 92715031010, 92715031011, 92715031012, 92715031013, 92715031014, 92715031015, 92715031016, 92715031017, 92715031018, 92715031019, 92715031020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	03/08/24 08:21	

LABORATORY CONTROL SAMPLE: 4325911

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0023	91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4325912 4325913

Parameter	Units	92715031001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0023	0.0021	91	83	75-125	10	20	

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

QC Batch: 835493 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92715031001, 92715031002, 92715031003, 92715031004, 92715031005, 92715031006

METHOD BLANK: 4316139 Matrix: Water
Associated Lab Samples: 92715031001, 92715031002, 92715031003, 92715031004, 92715031005, 92715031006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/28/24 13:51	

LABORATORY CONTROL SAMPLE: 4316140

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	400	100	80-120	

SAMPLE DUPLICATE: 4316141

Parameter	Units	92715028005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	214	198	8	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

QC Batch: 835849 | Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 | Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92715031001, 92715031002, 92715031003, 92715031004, 92715031005, 92715031006

METHOD BLANK: 4318153 Matrix: Water
Associated Lab Samples: 92715031001, 92715031002, 92715031003, 92715031004, 92715031005, 92715031006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/29/24 17:02	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/29/24 17:02	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/29/24 17:02	

LABORATORY CONTROL SAMPLE: 4318154

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.1	98	80-120	

LABORATORY CONTROL SAMPLE: 4318155

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4318156 4318157

Parameter	Units	92715028003 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	178	50	50	226	226	95	96	80-120	0	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4318158 4318159

Parameter	Units	92715028004 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	152	50	50	199	198	95	92	80-120	1	25	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

QC Batch: 836696 | Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 | Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92715031007, 92715031008, 92715031009, 92715031010, 92715031011, 92715031012, 92715031013

METHOD BLANK: 4321601 Matrix: Water
Associated Lab Samples: 92715031007, 92715031008, 92715031009, 92715031010, 92715031011, 92715031012, 92715031013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	03/05/24 12:19	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	03/05/24 12:19	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	03/05/24 12:19	

LABORATORY CONTROL SAMPLE: 4321602

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.2	102	80-120	

LABORATORY CONTROL SAMPLE: 4321603

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: 4321604 4321605

Parameter	Units	92715135002 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	48.2	50	50	97.7	97.7	99	99	80-120	0	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4321606 4321607

Parameter	Units	92715135003 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	525	50	50	568	586	85	121	80-120	3	25	M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

QC Batch: 836772
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92715031014, 92715031015, 92715031016, 92715031017, 92715031018, 92715031019

METHOD BLANK: 4322081 Matrix: Water
Associated Lab Samples: 92715031014, 92715031015, 92715031016, 92715031017, 92715031018, 92715031019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	03/05/24 16:25	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	03/05/24 16:25	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	03/05/24 16:25	

LABORATORY CONTROL SAMPLE: 4322082

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: 4322083

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4322084 4322085

Parameter	Units	92715031014 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	51.1	102	102	80-120	0	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4322086 4322087

Parameter	Units	92715031015 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	35.5	50	50	69.4	70.2	68	69	80-120	1	25	M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

QC Batch: 837019
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92715031020, 92715031021, 92715031022, 92715031023

METHOD BLANK: 4323380 Matrix: Water
Associated Lab Samples: 92715031020, 92715031021, 92715031022, 92715031023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	03/06/24 14:47	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	03/06/24 14:47	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	03/06/24 14:47	

LABORATORY CONTROL SAMPLE: 4323381

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: 4323382

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.3	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4323383 4323384

Parameter	Units	92715031020 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	21.1	50	50	70.4	70.4	99	99	80-120	0	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4323385 4323386

Parameter	Units	92715031021 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	6.8	50	50	58.8	58.8	104	104	80-120	0	25	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

QC Batch: 834849
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: 92715031007, 92715031008, 92715031009, 92715031010, 92715031011, 92715031012, 92715031013, 92715031014

METHOD BLANK: 4313279 Matrix: Water
Associated Lab Samples: 92715031007, 92715031008, 92715031009, 92715031010, 92715031011, 92715031012, 92715031013, 92715031014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/25/24 12:29	

LABORATORY CONTROL SAMPLE: 4313280

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	264	106	90-110	

SAMPLE DUPLICATE: 4313281

Parameter	Units	92715078001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	549	542	1	25	

SAMPLE DUPLICATE: 4313282

Parameter	Units	92715157006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	116	119	3	25	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(704)875-9092

QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

QC Batch: 835155
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: 92715031015, 92715031016, 92715031017, 92715031018

METHOD BLANK: 4314552 Matrix: Water
Associated Lab Samples: 92715031015, 92715031016, 92715031017, 92715031018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/27/24 11:02	

LABORATORY CONTROL SAMPLE: 4314553

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

SAMPLE DUPLICATE: 4314554

Parameter	Units	92715255001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	160	164	2	25	

SAMPLE DUPLICATE: 4314555

Parameter	Units	92715247002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	802	770	4	25	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

QC Batch: 835447 | 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: 92715031019, 92715031020, 92715031021, 92715031022, 92715031023

METHOD BLANK: 4315995 Matrix: Water
Associated Lab Samples: 92715031019, 92715031020, 92715031021, 92715031022, 92715031023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/28/24 11:28	

LABORATORY CONTROL SAMPLE: 4315996

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	262	105	90-110	

SAMPLE DUPLICATE: 4315997

Parameter	Units	92714726008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		25	

SAMPLE DUPLICATE: 4315998

Parameter	Units	92715393003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	287	294	2	25	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

QC Batch: 834818
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: 92715031001, 92715031002, 92715031003, 92715031004, 92715031005, 92715031006

METHOD BLANK: 4313203 Matrix: Water
Associated Lab Samples: 92715031001, 92715031002, 92715031003, 92715031004, 92715031005, 92715031006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/24/24 13:22	
Fluoride	mg/L	ND	0.10	0.050	02/24/24 13:22	
Sulfate	mg/L	ND	1.0	0.50	02/24/24 13:22	

LABORATORY CONTROL SAMPLE: 4313204

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.2	102	90-110	
Fluoride	mg/L	2.5	2.6	105	90-110	
Sulfate	mg/L	50	51.3	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4313205 4313206

Parameter	Units	92715026001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	2.9	50	50	52.6	54.6	99	103	90-110	4	10	
Fluoride	mg/L	0.054J	2.5	2.5	2.5	2.6	100	102	90-110	3	10	
Sulfate	mg/L	98.9	50	50	135	137	72	76	90-110	2	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4313207 4313208

Parameter	Units	92715028004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	10.4	50	50	61.2	61.7	102	103	90-110	1	10	
Fluoride	mg/L	0.096J	2.5	2.5	2.5	2.5	95	96	90-110	1	10	
Sulfate	mg/L	8.5	50	50	59.7	60.2	102	103	90-110	1	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

QC Batch: 835036
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: 92715031007, 92715031008, 92715031009, 92715031010, 92715031011, 92715031012, 92715031013, 92715031014, 92715031015, 92715031016, 92715031017, 92715031018

METHOD BLANK: 4314044 Matrix: Water
Associated Lab Samples: 92715031007, 92715031008, 92715031009, 92715031010, 92715031011, 92715031012, 92715031013, 92715031014, 92715031015, 92715031016, 92715031017, 92715031018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/26/24 18:32	
Fluoride	mg/L	ND	0.10	0.050	02/26/24 18:32	
Sulfate	mg/L	ND	1.0	0.50	02/26/24 18:32	

LABORATORY CONTROL SAMPLE: 4314045

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.5	101	90-110	
Fluoride	mg/L	2.5	2.6	102	90-110	
Sulfate	mg/L	50	50.7	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4314046 4314047

Parameter	Units	92712009007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	4.9	50	50	55.6	56.1	101	103	90-110	1	10	
Fluoride	mg/L	0.36	2.5	2.5	2.9	2.9	101	101	90-110	0	10	
Sulfate	mg/L	4.6	50	50	55.6	56.1	102	103	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4314048 4314049

Parameter	Units	92715031013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	50	50	50.9	50.7	102	101	90-110	0	10	
Fluoride	mg/L	ND	2.5	2.5	2.7	2.5	109	101	90-110	7	10	
Sulfate	mg/L	ND	50	50	51.1	50.7	102	101	90-110	1	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

QC Batch: 835038
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: 92715031019, 92715031020, 92715031021, 92715031022, 92715031023

METHOD BLANK: 4314060 Matrix: Water
Associated Lab Samples: 92715031019, 92715031020, 92715031021, 92715031022, 92715031023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/26/24 19:00	
Fluoride	mg/L	ND	0.10	0.050	02/26/24 19:00	
Sulfate	mg/L	ND	1.0	0.50	02/26/24 19:00	

LABORATORY CONTROL SAMPLE: 4314061

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	52.9	106	90-110	
Fluoride	mg/L	2.5	2.5	100	90-110	
Sulfate	mg/L	50	50.6	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4314062 4314063

Parameter	Units	92714723025 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	6.6	50	50	57.7	59.0	102	105	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.7	2.7	105	107	90-110	2	10	
Sulfate	mg/L	0.79J	50	50	51.7	53.0	102	104	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4314064 4314065

Parameter	Units	92715031020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.2	50	50	56.4	57.6	102	105	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.6	101	103	90-110	2	10	
Sulfate	mg/L	241	50	50	282	285	82	87	90-110	1	10	M1

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

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

B	Analyte was detected in the associated method blank.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92715031001	**YAT-YGWC-23S**	EPA 3010A	835845	EPA 6010D	835914
92715031002	**YAT-YGWC-49**	EPA 3010A	835845	EPA 6010D	835914
92715031003	**YAT-YAMW-3**	EPA 3010A	835845	EPA 6010D	835914
92715031004	**YAT-PZ-37**	EPA 3010A	835845	EPA 6010D	835914
92715031005	**YAT-PZ-37D**	EPA 3010A	835845	EPA 6010D	835914
92715031006	**YAT-PZ-52D**	EPA 3010A	835861	EPA 6010D	835946
92715031007	**YAT-YGWC-38**	EPA 3010A	835873	EPA 6010D	835959
92715031008	**YAT-YGWC-41**	EPA 3010A	835873	EPA 6010D	835959
92715031009	**YAT-YGWC-42**	EPA 3010A	835873	EPA 6010D	835959
92715031010	**YAT-YAMW-2**	EPA 3010A	835873	EPA 6010D	835959
92715031011	**YAT-YAMW-4**	EPA 3010A	835873	EPA 6010D	835959
92715031012	**YAT-YAMW-5**	EPA 3010A	835873	EPA 6010D	835959
92715031013	**YAT-AMA-R6-EB-1**	EPA 3010A	835873	EPA 6010D	835959
92715031014	**YAT-AMA-R6-FB-1**	EPA 3010A	835873	EPA 6010D	835959
92715031015	**YAT-YGWC-43**	EPA 3010A	835873	EPA 6010D	835959
92715031016	**YAT-PZ-51**	EPA 3010A	835873	EPA 6010D	835959
92715031017	**YAT-YGWC-50**	EPA 3010A	835873	EPA 6010D	835959
92715031018	**YAT-PZ-55**	EPA 3010A	835873	EPA 6010D	835959
92715031019	**YAT-YAMW-1**	EPA 3010A	835886	EPA 6010D	835961
92715031020	**YAT-AMA-R6-FD-1**	EPA 3010A	835886	EPA 6010D	835961
92715031021	**YAT-YGWC-36A**	EPA 3010A	835886	EPA 6010D	835961
92715031022	**YAT-YGWC-24SB**	EPA 3010A	835886	EPA 6010D	835961
92715031023	**YAT-PZ-35**	EPA 3010A	835886	EPA 6010D	835961
92715031001	**YAT-YGWC-23S**	EPA 3005A	835669	EPA 6020B	835900
92715031002	**YAT-YGWC-49**	EPA 3005A	835669	EPA 6020B	835900
92715031003	**YAT-YAMW-3**	EPA 3005A	835669	EPA 6020B	835900
92715031004	**YAT-PZ-37**	EPA 3005A	835669	EPA 6020B	835900
92715031005	**YAT-PZ-37D**	EPA 3005A	835669	EPA 6020B	835900
92715031006	**YAT-PZ-52D**	EPA 3005A	835669	EPA 6020B	835900
92715031007	**YAT-YGWC-38**	EPA 3005A	835670	EPA 6020B	835901
92715031008	**YAT-YGWC-41**	EPA 3005A	835670	EPA 6020B	835901
92715031009	**YAT-YGWC-42**	EPA 3005A	835670	EPA 6020B	835901
92715031010	**YAT-YAMW-2**	EPA 3005A	835670	EPA 6020B	835901
92715031011	**YAT-YAMW-4**	EPA 3005A	835670	EPA 6020B	835901
92715031012	**YAT-YAMW-5**	EPA 3005A	835671	EPA 6020B	835903
92715031013	**YAT-AMA-R6-EB-1**	EPA 3005A	835671	EPA 6020B	835903
92715031014	**YAT-AMA-R6-FB-1**	EPA 3005A	835671	EPA 6020B	835903
92715031015	**YAT-YGWC-43**	EPA 3005A	835671	EPA 6020B	835903
92715031016	**YAT-PZ-51**	EPA 3005A	835671	EPA 6020B	835903
92715031017	**YAT-YGWC-50**	EPA 3005A	835671	EPA 6020B	835903
92715031018	**YAT-PZ-55**	EPA 3005A	835671	EPA 6020B	835903
92715031019	**YAT-YAMW-1**	EPA 3005A	835672	EPA 6020B	835904
92715031020	**YAT-AMA-R6-FD-1**	EPA 3005A	835672	EPA 6020B	835904
92715031021	**YAT-YGWC-36A**	EPA 3005A	835672	EPA 6020B	835904
92715031022	**YAT-YGWC-24SB**	EPA 3005A	835672	EPA 6020B	835904

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92715031023	**YAT-PZ-35**	EPA 3005A	835672	EPA 6020B	835904
92715031001	**YAT-YGWC-23S**	EPA 7470A	837385	EPA 7470A	837625
92715031002	**YAT-YGWC-49**	EPA 7470A	837385	EPA 7470A	837625
92715031003	**YAT-YAMW-3**	EPA 7470A	837385	EPA 7470A	837625
92715031004	**YAT-PZ-37**	EPA 7470A	837385	EPA 7470A	837625
92715031005	**YAT-PZ-37D**	EPA 7470A	837385	EPA 7470A	837625
92715031006	**YAT-PZ-52D**	EPA 7470A	837385	EPA 7470A	837625
92715031007	**YAT-YGWC-38**	EPA 7470A	837385	EPA 7470A	837625
92715031008	**YAT-YGWC-41**	EPA 7470A	837385	EPA 7470A	837625
92715031009	**YAT-YGWC-42**	EPA 7470A	837385	EPA 7470A	837625
92715031010	**YAT-YAMW-2**	EPA 7470A	837385	EPA 7470A	837625
92715031011	**YAT-YAMW-4**	EPA 7470A	837385	EPA 7470A	837625
92715031012	**YAT-YAMW-5**	EPA 7470A	837385	EPA 7470A	837625
92715031013	**YAT-AMA-R6-EB-1**	EPA 7470A	837385	EPA 7470A	837625
92715031014	**YAT-AMA-R6-FB-1**	EPA 7470A	837385	EPA 7470A	837625
92715031015	**YAT-YGWC-43**	EPA 7470A	837385	EPA 7470A	837625
92715031016	**YAT-PZ-51**	EPA 7470A	837385	EPA 7470A	837625
92715031017	**YAT-YGWC-50**	EPA 7470A	837385	EPA 7470A	837625
92715031018	**YAT-PZ-55**	EPA 7470A	837385	EPA 7470A	837625
92715031019	**YAT-YAMW-1**	EPA 7470A	837385	EPA 7470A	837625
92715031020	**YAT-AMA-R6-FD-1**	EPA 7470A	837385	EPA 7470A	837625
92715031021	**YAT-YGWC-36A**	EPA 7470A	837279	EPA 7470A	837426
92715031022	**YAT-YGWC-24SB**	EPA 7470A	837279	EPA 7470A	837426
92715031023	**YAT-PZ-35**	EPA 7470A	837279	EPA 7470A	837426
92715031001	**YAT-YGWC-23S**	SM 2540C-2015	835493		
92715031002	**YAT-YGWC-49**	SM 2540C-2015	835493		
92715031003	**YAT-YAMW-3**	SM 2540C-2015	835493		
92715031004	**YAT-PZ-37**	SM 2540C-2015	835493		
92715031005	**YAT-PZ-37D**	SM 2540C-2015	835493		
92715031006	**YAT-PZ-52D**	SM 2540C-2015	835493		
92715031001	**YAT-YGWC-23S**	SM 2320B-2011	835849		
92715031002	**YAT-YGWC-49**	SM 2320B-2011	835849		
92715031003	**YAT-YAMW-3**	SM 2320B-2011	835849		
92715031004	**YAT-PZ-37**	SM 2320B-2011	835849		
92715031005	**YAT-PZ-37D**	SM 2320B-2011	835849		
92715031006	**YAT-PZ-52D**	SM 2320B-2011	835849		
92715031007	**YAT-YGWC-38**	SM 2320B-2011	836696		
92715031008	**YAT-YGWC-41**	SM 2320B-2011	836696		
92715031009	**YAT-YGWC-42**	SM 2320B-2011	836696		
92715031010	**YAT-YAMW-2**	SM 2320B-2011	836696		
92715031011	**YAT-YAMW-4**	SM 2320B-2011	836696		
92715031012	**YAT-YAMW-5**	SM 2320B-2011	836696		
92715031013	**YAT-AMA-R6-EB-1**	SM 2320B-2011	836696		
92715031014	**YAT-AMA-R6-FB-1**	SM 2320B-2011	836772		
92715031015	**YAT-YGWC-43**	SM 2320B-2011	836772		
92715031016	**YAT-PZ-51**	SM 2320B-2011	836772		

REPORT OF LABORATORY ANALYSIS

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(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92715031017	**YAT-YGWC-50**	SM 2320B-2011	836772		
92715031018	**YAT-PZ-55**	SM 2320B-2011	836772		
92715031019	**YAT-YAMW-1**	SM 2320B-2011	836772		
92715031020	**YAT-AMA-R6-FD-1**	SM 2320B-2011	837019		
92715031021	**YAT-YGWC-36A**	SM 2320B-2011	837019		
92715031022	**YAT-YGWC-24SB**	SM 2320B-2011	837019		
92715031023	**YAT-PZ-35**	SM 2320B-2011	837019		
92715031007	**YAT-YGWC-38**	SM 2540C-2015	834849		
92715031008	**YAT-YGWC-41**	SM 2540C-2015	834849		
92715031009	**YAT-YGWC-42**	SM 2540C-2015	834849		
92715031010	**YAT-YAMW-2**	SM 2540C-2015	834849		
92715031011	**YAT-YAMW-4**	SM 2540C-2015	834849		
92715031012	**YAT-YAMW-5**	SM 2540C-2015	834849		
92715031013	**YAT-AMA-R6-EB-1**	SM 2540C-2015	834849		
92715031014	**YAT-AMA-R6-FB-1**	SM 2540C-2015	834849		
92715031015	**YAT-YGWC-43**	SM 2540C-2015	835155		
92715031016	**YAT-PZ-51**	SM 2540C-2015	835155		
92715031017	**YAT-YGWC-50**	SM 2540C-2015	835155		
92715031018	**YAT-PZ-55**	SM 2540C-2015	835155		
92715031019	**YAT-YAMW-1**	SM 2540C-2015	835447		
92715031020	**YAT-AMA-R6-FD-1**	SM 2540C-2015	835447		
92715031021	**YAT-YGWC-36A**	SM 2540C-2015	835447		
92715031022	**YAT-YGWC-24SB**	SM 2540C-2015	835447		
92715031023	**YAT-PZ-35**	SM 2540C-2015	835447		
92715031001	**YAT-YGWC-23S**	EPA 300.0 Rev 2.1 1993	834818		
92715031002	**YAT-YGWC-49**	EPA 300.0 Rev 2.1 1993	834818		
92715031003	**YAT-YAMW-3**	EPA 300.0 Rev 2.1 1993	834818		
92715031004	**YAT-PZ-37**	EPA 300.0 Rev 2.1 1993	834818		
92715031005	**YAT-PZ-37D**	EPA 300.0 Rev 2.1 1993	834818		
92715031006	**YAT-PZ-52D**	EPA 300.0 Rev 2.1 1993	834818		
92715031007	**YAT-YGWC-38**	EPA 300.0 Rev 2.1 1993	835036		
92715031008	**YAT-YGWC-41**	EPA 300.0 Rev 2.1 1993	835036		
92715031009	**YAT-YGWC-42**	EPA 300.0 Rev 2.1 1993	835036		
92715031010	**YAT-YAMW-2**	EPA 300.0 Rev 2.1 1993	835036		
92715031011	**YAT-YAMW-4**	EPA 300.0 Rev 2.1 1993	835036		
92715031012	**YAT-YAMW-5**	EPA 300.0 Rev 2.1 1993	835036		
92715031013	**YAT-AMA-R6-EB-1**	EPA 300.0 Rev 2.1 1993	835036		
92715031014	**YAT-AMA-R6-FB-1**	EPA 300.0 Rev 2.1 1993	835036		
92715031015	**YAT-YGWC-43**	EPA 300.0 Rev 2.1 1993	835036		
92715031016	**YAT-PZ-51**	EPA 300.0 Rev 2.1 1993	835036		
92715031017	**YAT-YGWC-50**	EPA 300.0 Rev 2.1 1993	835036		
92715031018	**YAT-PZ-55**	EPA 300.0 Rev 2.1 1993	835036		
92715031019	**YAT-YAMW-1**	EPA 300.0 Rev 2.1 1993	835038		
92715031020	**YAT-AMA-R6-FD-1**	EPA 300.0 Rev 2.1 1993	835038		
92715031021	**YAT-YGWC-36A**	EPA 300.0 Rev 2.1 1993	835038		

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92715031

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92715031022	**YAT-YGWC-24SB**	EPA 300.0 Rev 2.1 1993	835038		
92715031023	**YAT-PZ-35**	EPA 300.0 Rev 2.1 1993	835038		

Pace

DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt

Effective Date: 12/01/2023

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Ga Power

Project # **WO# : 92715031**

92715031

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: 2/12/24 JG

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

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

Thermometer:

☑ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 2.2 Correction Factor: Add/Subtract (°C) +0.1

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 2.3

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	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers: ____

CLIENT NOTIFICATION/RESOLUTION

Person contacted: ____ Date/Time: ____

Project Manager SCURF Review: ____ Date: ____

Project Manager SRF Review: ____ Date: ____

WO# : 92715031

Project #

PM: BV Due Date: 03/07/24

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

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)	8 pH	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1																			2				
2		2	1			1																			2				
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

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

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

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

92715031

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2024S1	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT AP-3, A, B/B', R6	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

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

County / State origin of sample(s): Georgia

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

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

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

Date Results Requested: Std. TAT

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 7 1

Analysis Requested

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

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

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

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

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment	Preservation non-conformance identified for sample
YAT-YGWC-23S	WG	G	2/21/24	1637				6		X	X	X	X	X	See Remarks (2)	
YAT-YAMW-1	WG	G						6		X	X	X	X	X	See Remarks	
YAT-AMA-R6-FD-1	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWC-36A	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWC-49	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWC-38	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWC-24SB	WG	G						6		X	X	X	X	X		
YAT-YGWC-41	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWC-42	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWC-43	WG	G						6		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): Ca, 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)

	Date/Time	Received by/Company: (Signature)	Date/Time	Tracking Number:
Relinquished by/Company: (Signature) Jessica Ware / Arcadis	2/22/24 0903			
Relinquished by/Company: (Signature) / Pace	2/22/24 1545		2/22 1545	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: 1 of 1

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

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:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contarts
Customer Project #:	Task No. YAT-CCR-ASSMT-202451	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', R6		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

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

County / State origin of sample(s): Georgia

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

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

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

Date Results Requested: STANDARD TAT

DW PWSID # or WW Permit # as applicable:

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

Analysis:

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

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment
YAT-YGWC-23S	WG	G						6		X	X	X	X	X	See Remarks
YAT-YAMW-1	WG	G						6		X	X	X	X	X	See Remarks
YAT-AMA-R6-FD-1	WG	G						6		X	X	X	X	X	See Remarks
YAT-YGWC-36A	WG	G						6		X	X	X	X	X	See Remarks
YAT-YGWC-49	WG	G	2/21/24	1725	—	—		6		X	X	X	X	X	See Remarks DUP
YAT-YGWC-38	WG	G						6		X	X	X	X	X	See Remarks
YAT-YGWC-24SB	WG	G						6		X	X	X	X	X	
YAT-YGWC-41	WG	G						6		X	X	X	X	X	See Remarks
YAT-YGWC-42	WG	G						6		X	X	X	X	X	See Remarks
YAT-YGWC-43	WG	G						6		X	X	X	X	X	See Remarks

Specify Container Size **: 3 3 2 1 3

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

Analysis Requested

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

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

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

Preservation non-conformance identified for sample

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

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

Additional Instructions from Pace®:

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

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
/ARCADIS	2/22/24 0900		2/22/24 0900	
/Arcadis	2/22/24 0903	/ Pace	2/22/24 0905	Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other
/ Pace	2/22/24 1545		2/22 1545	
				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/

Pace	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Duke Power

Project #: **WO#: 92715031**

PM: BV **Due Date: 03/07/24**

CLIENT: 92-GP-Yates

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

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

Date/Initials Person Examining Contents: 2/21/24 SM

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

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

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

Cooler Temp: 3.1 **Correction Factor:** Add/Subtract (°C) +0.1

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 3.2

USDA Regulated Soil (☐ N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: **Date:**

Project Manager SRF Review: **Date:**

DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt

Effective Date: 12/01/2023

WO#: 92715031

Project #

PM: BV Due Date: 03/07/24

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

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)	BP3N	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1																			2				
2		2	1			1																			2				
3		2	1			1																			2				
4		2	1			1																			2				
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

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

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

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

CHAIN-OF-CUSTODY Analytical Request Document

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

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name: Southern Company
Street Address: 241 Ralph McGill Blvd, Atlanta, GA 30308
Customer Project #: Task No. YAT-CCR-ASSMT-202451
Project Name: Georgia Power Yates
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', R6
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

Contact/Report To: Lauren Hartley
Phone #: 470-620-6176
E-Mail: laucoker@southernco.com
Cc E-Mail: Arcadis contacts
Invoice To:
Invoice E-Mail:
Purchase Order # (if applicable): GPC82474-0002
Quote #:
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: Standard TAT

DW PWSID # or WW Permit # as applicable:

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

Analysis:

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

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

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

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

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

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected Time	Composite End Date	Composite End Time	Res. Cl2	Containers Plastic	Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/9320	Alkalinity (SM2320B)	Sample Comment	Preservation non-conformance identified for sample
YAT-YAMW-2	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YAMW-3	WG	G	2/21/23	1202	-	-	-	6		X	X	X	X	X	See Remarks 003	
YAT-YAMW-4	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YAMW-5	WG	G						6		X	X	X	X	X	See Remarks	
YAT-PZ-37	WG	G						6		X	X	X	X	X	See Remarks	
YAT-PZ-35	WG	G						6		X	X	X	X	X	See Remarks	
YAT-PZ-37D	WG	G						6		X	X	X	X	X	See Remarks	
YAT-PZ-51	WG	G						6		X	X	X	X	X	See Remarks	
YAT-PZ-52D	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWC-50	WG	G						6		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): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - Mark Chest
Signature: (Arcadis) - [signature]

Additional Instructions from Pace®:

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

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
[signature] / AUS.	2/21/24 / 1302	Jessica Dore / Arcadis	2/21/24 1302
Jessica Dore / Arcadis	2/22/24 0903	[signature] / Pace	2/22/24 0903
[signature] / Pace	2/22/24 15:46	[signature]	2/22/24 15:46

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

Page: 1 of 1

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v01_082123 ©

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:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202451	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-1, A, B/B', R6		Purchase Order # (If applicable):	GPC82474-0002
		Quote #:	

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

County / State origin of sample(s): Georgia

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

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

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

Date Results Requested: Std TAT

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) 200mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

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

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

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/9320	Alkalinity (SM2320B)	Sample Comment	Preservation non-conformance identified for sample
YAT-YAMW-2	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YAMW-3	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YAMW-4	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YAMW-5	WG	G						6		X	X	X	X	X	See Remarks	
YAT-PZ-37	WG	G	2/21/24	0954				6		X	X	X	X	X	See Remarks U04	
YAT-PZ-35	WG	G						6		X	X	X	X	X	See Remarks	
YAT-PZ-37D	WG	G	2/21/24	1413				6		X	X	X	X	X	See Remarks U05	
YAT-PZ-51	WG	G						6		X	X	X	X	X	See Remarks	
YAT-PZ-52D	WG	G	2/21/24	1058				6		X	X	X	X	X	See Remarks U06	
YAT-YGWC-50	WG	G						6		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): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

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

Additional Instructions from Pace®:

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

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Jessica Ware / Arcadis	2/22/24 0903	Ilyan Hillman / Pace	2/22/24 0903	
Ilyan Hillman / Pace	2/22/24 1545		2/22/24 1545	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: 2 of 2

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	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power ✓

Project #: WO# : 92715031

PM: BV Due Date: 03/07/24

CLIENT: 92-GP-Yates

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: 2/23/24 CH

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: 1.3 **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	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

Pace	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

WO#: 92715031

*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

Project #

PM: BV Due Date: 03/07/24

CLIENT: 92-GP-Yates

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

***Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP1N	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1																			1				
2		2	1			1																			2				
3		2	1			1																			2				
4		2	1			1																			2				
5		2	1			1																			2				
6		2	1			1																			2				
7		2	1			1																			2				
8		2	1			1																			2				
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

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

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

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

CHAIN-OF-CUSTODY Analytical Request Document

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

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

92715031

Company Name:	Southern Company	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202451	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', R6		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

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

County / State origin of sample(s): Georgia

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

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

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

Date Results Requested: STANDARD TAT

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 **

Identify Container Preservative Type***

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
								3	3	2	1	3			
								2	1	1	2	1			
YAT-YGWC-23S	WG	G						6		X	X	X	X	X	See Remarks
YAT-YAMW-1	WG	G						6		X	X	X	X	X	See Remarks
YAT-AMA-R6-FD-1	WG	G						6		X	X	X	X	X	See Remarks
YAT-YGWC-36A	WG	G						6		X	X	X	X	X	See Remarks
YAT-YGWC-49	WG	G						6		X	X	X	X	X	See Remarks
YAT-YGWC-38	WG	G	2/22/24	0945	—	—		6		X	X	X	X	X	See Remarks 007
YAT-YGWC-24SB	WG	G						6		X	X	X	X	X	
YAT-YGWC-41	WG	G	2/22/24	1533	—	—		6		X	X	X	X	X	See Remarks 008
YAT-YGWC-42	WG	G	2/22/24	1708	—	—		6		X	X	X	X	X	See Remarks 009
YAT-YGWC-43	WG	G						6		X	X	X	X	X	See Remarks

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

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

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

Preservation non-conformance identified for sample:

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl, 7040A: Hg.
Additional metals (6010D): Ca, 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: 2/23/24 0418	Received by/Company: (Signature) Ryan Williams / Pace	Date/Time: 2/23/24 0918	Tracking Number:
Relinquished by/Company: (Signature) Ryan Williams / Pace	Date/Time: 2/23/24 1307	Received by/Company: (Signature)	Date/Time: 2/23/24 1307	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 1 of 3
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

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

CHAIN-OF-CUSTODY Analytical Request Document

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LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No: YAT-CCR-ASSMT-2024S1	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', R6		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

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

County / State origin of sample(s): Georgia

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

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

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

Date Results Requested: STANDARD TAT

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [V] 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-YAMW-2	WG	G	2/22/24	1220	—	—		6		X	X	X	X	X	See Remarks 610	
YAT-YAMW-3	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YAMW-4	WG	G	2/22/24	1352	—	—		6		X	X	X	X	X	See Remarks	
YAT-YAMW-5	WG	G	2/22/24	1115	—	—		6		X	X	X	X	X	See Remarks 611 612	
YAT-PZ-37	WG	G						6		X	X	X	X	X	See Remarks	
YAT-PZ-35	WG	G						6		X	X	X	X	X	See Remarks	
YAT-PZ-37D	WG	G						6		X	X	X	X	X	See Remarks	
YAT-PZ-51	WG	G						6		X	X	X	X	X	See Remarks	
YAT-PZ-52D	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWC-50	WG	G						6		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): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

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

Additional Instructions from Pace®:

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

	Date/Time		Date/Time	
Relinquished by/Company: (Signature) / ARCADIS	2/23/24 0918	Received by/Company: (Signature) / Pace	2/23/24 0918	Tracking Number:
Relinquished by/Company: (Signature) / Pace	2/23/24 1307	Received by/Company: (Signature) / Pace	2/23/24 1307	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: 2 of 3

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:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2024S1	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', R6		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

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

County / State origin of sample(s): Georgia

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

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

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

Date Results Requested: STANDARD TAT

DW PWSID # or WW Permit # as applicable:

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

Analysis:

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

Specify Container Size **: 3 3 2 1 3

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

Analysis Requested

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

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

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment
YAT-AMA-R6-EB-1	WG	G	2/22/24	1440	—	—		6		X	X	X	X	X	See Remarks 013
YAT-AMA-R6-FB-1	WG	G	2/22/24	1125	—	—		6		X	X	X	X	X	See Remarks 014
YAT-YGWC-24SB	WG	G						6		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): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

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

Additional Instructions from Pace®:

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

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
ARCADIS	2/23/24 0918	Ryan W. Williams / Pace	2/23/24 0918	
Ryan W. Williams / Pace	2/23/24 1307		2/23/24 1307	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
				Page: 3 of 3

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	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

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

Sample Condition Upon Receipt

Client Name: GA Power

Project #: **WO# : 92715031**

PM: BV Due Date: 03/07/24

CLIENT: 92-GP-Yates

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: 2/13/24 CJ

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: 1.3 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	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

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

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

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

***Check all unpreserved Nitrates for chlorine

Project # WO#: 92715031

PM: BV Due Date: 03/07/24

CLIENT: 92-GP-Yates

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)	BP1N	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1																			2				
2		2	1			1																			2				
3		2	1			1																			2				
4		2	1			1																			2				
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

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

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

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

CHAIN-OF-CUSTODY Analytical Request Document

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

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-670-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2024S1	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', R6		Purchase Order # (if applicable):	GPCB2474-0002
		Quote #:	

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

County / State origin of sample(s): Georgia

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

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

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

Date Results Requested: Std TAT

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

**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-YGWC-23S	WG	G						6		X	X	X	X	X	See Remarks
YAT-YAMW-1	WG	G						6		X	X	X	X	X	See Remarks
YAT-AMA-R6-FD-1	WG	G						6		X	X	X	X	X	See Remarks
YAT-YGWC-36A	WG	G						6		X	X	X	X	X	See Remarks
YAT-YGWC-49	WG	G						6		X	X	X	X	X	See Remarks
YAT-YGWC-38	WG	G						6		X	X	X	X	X	See Remarks
YAT-YGWC-24SB	WG	G						6		X	X	X	X	X	
YAT-YGWC-41	WG	G						6		X	X	X	X	X	See Remarks
YAT-YGWC-42	WG	G						6		X	X	X	X	X	See Remarks
YAT-YGWC-43	WG	G	2/22/24	1651				6		X	X	X	X	X	See Remarks 015

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

Preservation non-conformance identified for sample

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg
Additional metals (6010D): Ca, 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)

	Date/Time	Received by/Company: (Signature)	Date/Time
Relinquished by/Company: (Signature) Jessica Ware / Arcadis	2/23/24 0830		
Relinquished by/Company: (Signature) / ARCADIS	2/23/24 0918	Received by/Company: (Signature) / Pace	2/23/24 0918
Relinquished by/Company: (Signature) / Pace	2/23/24 1307	Received by/Company: (Signature)	2/23/24 1307
Relinquished by/Company: (Signature)		Received by/Company: (Signature)	

Tracking Number:

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

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

CHAIN-OF-CUSTODY Analytical Request Document

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Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202451	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', R6		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

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

County / State origin of sample(s): Georgia

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

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

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

Date Results Requested: Std TAT

DW PWSID # or WW Permit # as applicable:

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

Analysis:

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

Specify Container Size **: 3 3 2 1 3

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

Analysis Requested

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers: Plastic	Number & Type of Containers: Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment
YAT-YAMW-2	WG	G						6		X	X	X	X	X	See Remarks
YAT-YAMW-3	WG	G						6		X	X	X	X	X	See Remarks
YAT-YAMW-4	WG	G						6		X	X	X	X	X	See Remarks
YAT-YAMW-5	WG	G						6		X	X	X	X	X	See Remarks
YAT-PZ-37	WG	G						6		X	X	X	X	X	See Remarks
YAT-PZ-35	WG	G						6		X	X	X	X	X	See Remarks
YAT-PZ-37D	WG	G						6		X	X	X	X	X	See Remarks
YAT-PZ-51	WG	G	2/22/24	1730				6		X	X	X	X	X	See Remarks 016
YAT-PZ-52D	WG	G						6		X	X	X	X	X	See Remarks
YAT-YGWC-50	WG	G	2/22/24	1020				6		X	X	X	X	X	See Remarks 017

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): Ca, 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	2/23/24 0800	[illegible] / ARCADIS	2/23/24 0800
[illegible] / ARCADIS	2/23/24 0918	Ryan Williams / Pace	2/23/24 0918
Ryan Williams / Pace	2/23/24 1301	[illegible]	2/23/24 1307
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

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

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

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Company Name:	Southern Company	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2024S1	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', R6		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET		County / State origin of sample(s):	Georgia

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

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

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

Date Results Requested: Std TAT

DW PWSID # or WW Permit # as applicable:

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

Analysis:

Specify Container Size **: 3 3 2 1 3

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

Analysis Requested

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

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

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

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), 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-AMA-R6-EB-1	WG	G						6		X	X	X	X	X	See Remarks	
YAT-AMA-R6-FB-1	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWC-24SB	WG	G						6		X	X	X	X	X	See Remarks	
YAT-PZ-55	WG	G	2/22/24	1439				6		X	X	X	X	X	618	

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): Ca, 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	2/23/24 0800	[illegible] / ARCADIS	2/23/24 0800
[illegible] / ARCADIS	2/23/24 0918	[illegible] / Pace	2/23/24 0918
[illegible] / Pace	2/23/24 1307	[illegible]	2/23/24 1307

Tracking Number:

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

Page: 3 of 3

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	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Southern Company - GA Power

Project #:

WO#: 92715031

PM: BV **Due Date: 03/07/24**

CLIENT: 92-GP-Yates

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

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

Date/Initials Person Examining Contents: MM

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

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

Thermometer: ☐ IR Gun ID: 230

Type of Ice: ☒ Wet ☐ Blue ☐ None

Cooler Temp: 4.3 **Correction Factor:** Add/Subtract (°C) +0.1

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 4.4

USDA Regulated Soil (☐ N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Pace	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

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

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

***Check all unpreserved Nitrates for chlorine

Project # **WO#: 92715031**

PM: BV Due Date: 03/07/24

CLIENT: 92-GP-Yates

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)	BP1Z	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1																			2				
2		2	1			1																			2				
3		2	1			1																			2				
4		2	1			1																			2				
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

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

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

Pace® Location Requested (City/State): Pace Analytical Charlotte, 5800 Kinsey 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

92715031

Company Name:	Southern Company	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT AP-3, A, B/B', R6	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected:	[ ] AK [ ] PT [ ] MT [ ] CT [X] ET	County / State origin of sample(s):	Georgia

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

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

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

Date Results Requested: STANDARD TAT

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-YGWC-23S	WG	G			—	—		6		X	X	X	X	X	See Remarks
YAT-YAMW-1	WG	G	2/23/24	0920	—	—		6		X	X	X	X	X	See Remarks 019
YAT-AMA-R6-FD-1	WG	G	2/23/24	—	—	—		6		X	X	X	X	X	See Remarks 020
YAT-YGWC-36A	WG	G	2/23/24	1424	—	—		6		X	X	X	X	X	See Remarks 021
YAT-YGWC-49	WG	G						6		X	X	X	X	X	See Remarks
YAT-YGWC-38	WG	G						6		X	X	X	X	X	See Remarks
YAT-YGWC-24SB	WG	G	2/23/24	1308	—	—		6		X	X	X	X	X	022
YAT-YGWC-41	WG	G						6		X	X	X	X	X	See Remarks
YAT-YGWC-42	WG	G						6		X	X	X	X	X	See Remarks
YAT-YGWC-43	WG	G						6		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): Ca, 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:	Tracking Number:
HARRIS	2/23/24 1600	Jessica Ivan (Arcadis)	2/23/24 1600	
Jessica Ivan (Arcadis)	2/24/24 1133	MJW	2/24/24 1133	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
				Page: 1 of 2

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:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2024S1	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT AP-3, A, B/B', R6	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected:	[ ] AK [ ] PT [ ] MT [ ] CT [X] ET	County / State origin of sample(s):	Georgia

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

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

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

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/Num / 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-YAMW-2	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YAMW-3	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YAMW-4	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YAMW-5	WG	G						6		X	X	X	X	X	See Remarks	
YAT-PZ-37	WG	G						6		X	X	X	X	X	See Remarks	
YAT-PZ-35	WG	G	2/23/24	1110	—	—		6		X	X	X	X	X	See Remarks SG3	
YAT-PZ-37D	WG	G						6		X	X	X	X	X	See Remarks	
YAT-PZ-51	WG	G						6		X	X	X	X	X	See Remarks	
YAT-PZ-52D	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWC-50	WG	G						6		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): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - KIM LAPSINSKI
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:
[signature] / ARCADIS	2/23/24 1600	[signature] / Arcadis	2/23/24 1600	
[signature] / Arcadis	2/24/24 1133	[signature]	2/24/24 1133	Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other
				Page: 2 of 2

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

March 21, 2024

Lauren Hartley
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92715057

Dear Lauren Hartley:

Enclosed are the analytical results for sample(s) received by the laboratory between February 22, 2024 and February 24, 2024. 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
Becky Steever, Arcadis
Jessica Ware, Arcadis
Albert Zumbuhl, Arcadis

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

CERTIFICATIONS

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92715057

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

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

SAMPLE SUMMARY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92715057

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92715057001	**YAT-YGWC-23S**	Water	02/21/24 16:37	02/22/24 09:03
92715057002	**YAT-YGWC-49**	Water	02/21/24 17:25	02/22/24 09:03
92715057003	**YAT-YAMW-3**	Water	02/21/24 12:02	02/22/24 09:03
92715057004	**YAT-PZ-37**	Water	02/21/24 09:54	02/22/24 09:03
92715057005	**YAT-PZ-37D**	Water	02/21/24 14:13	02/22/24 09:03
92715057006	**YAT-PZ-52D**	Water	02/21/24 10:58	02/22/24 09:03
92715057007	**YAT-YGWC-38**	Water	02/22/24 09:48	02/23/24 09:18
92715057008	**YAT-YGWC-41**	Water	02/22/24 15:33	02/23/24 09:18
92715057009	**YAT-YGWC-42**	Water	02/22/24 17:08	02/23/24 09:18
92715057010	**YAT-YAMW-2**	Water	02/22/24 12:20	02/23/24 09:18
92715057011	**YAT-YAMW-4**	Water	02/22/24 13:52	02/23/24 09:18
92715057012	**YAT-YAMW-5**	Water	02/22/24 11:15	02/23/24 09:18
92715057013	**YAT-AMA-R6-EB-1**	Water	02/22/24 14:40	02/23/24 09:18
92715057014	**YAT-AMA-R6-FB-1**	Water	02/22/24 11:25	02/23/24 09:18
92715057015	**YAT-YGWC-43**	Water	02/22/24 16:51	02/23/24 09:18
92715057016	**YAT-PZ-51**	Water	02/22/24 17:30	02/23/24 09:18
92715057017	**YAT-YGWC-50**	Water	02/22/24 10:20	02/23/24 09:18
92715057018	**YAT-PZ-55**	Water	02/22/24 14:39	02/23/24 09:18
92715057019	**YAT-YAMW-1**	Water	02/23/24 09:20	02/24/24 11:33
92715057020	**YAT-AMA-R6-FD-1**	Water	02/23/24 00:00	02/24/24 11:33
92715057021	**YAT-YGWC-36A**	Water	02/23/24 14:24	02/24/24 11:33
92715057022	**YAT-YGWC-24SB**	Water	02/23/24 13:08	02/24/24 11:33
92715057023	**YAT-PZ-35**	Water	02/23/24 11:10	02/24/24 11:33

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92715057

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92715057001	**YAT-YGWC-23S**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92715057002	**YAT-YGWC-49**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92715057003	**YAT-YAMW-3**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92715057004	**YAT-PZ-37**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92715057005	**YAT-PZ-37D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92715057006	**YAT-PZ-52D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92715057007	**YAT-YGWC-38**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92715057008	**YAT-YGWC-41**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92715057009	**YAT-YGWC-42**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92715057010	**YAT-YAMW-2**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92715057011	**YAT-YAMW-4**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92715057012	**YAT-YAMW-5**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92715057013	**YAT-AMA-R6-EB-1**	EPA 9315	SLC	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92715057

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92715057014	**YAT-AMA-R6-FB-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92715057015	**YAT-YGWC-43**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92715057016	**YAT-PZ-51**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92715057017	**YAT-YGWC-50**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92715057018	**YAT-PZ-55**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92715057019	**YAT-YAMW-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92715057020	**YAT-AMA-R6-FD-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92715057021	**YAT-YGWC-36A**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92715057022	**YAT-YGWC-24SB**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92715057023	**YAT-PZ-35**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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SUMMARY OF DETECTION

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92715057

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92715057001	**YAT-YGWC-23S**					
EPA 9315	Radium-226	0.211U ± 0.162 (0.286) C:91% T:NA	pCi/L		03/15/24 11:44	
EPA 9320	Radium-228	0.134U ± 0.437 (0.984) C:68% T:83%	pCi/L		03/11/24 16:43	
Total Radium Calculation	Total Radium	0.345U ± 0.599 (1.27)	pCi/L		03/18/24 11:21	
92715057002	**YAT-YGWC-49**					
EPA 9315	Radium-226	0.204U ± 0.166 (0.302) C:87% T:NA	pCi/L		03/15/24 11:44	
EPA 9320	Radium-228	0.391U ± 0.390 (0.796) C:73% T:77%	pCi/L		03/11/24 16:44	
Total Radium Calculation	Total Radium	0.595U ± 0.556 (1.10)	pCi/L		03/18/24 11:21	
92715057003	**YAT-YAMW-3**					
EPA 9315	Radium-226	0.716 ± 0.263 (0.272) C:92% T:NA	pCi/L		03/15/24 11:45	
EPA 9320	Radium-228	0.257U ± 0.333 (0.707) C:75% T:87%	pCi/L		03/11/24 16:44	
Total Radium Calculation	Total Radium	0.973U ± 0.596 (0.979)	pCi/L		03/18/24 11:21	
92715057004	**YAT-PZ-37**					
EPA 9315	Radium-226	0.789 ± 0.285 (0.314) C:90% T:NA	pCi/L		03/15/24 11:45	
EPA 9320	Radium-228	-0.0250U ± 0.381 (0.896) C:75% T:80%	pCi/L		03/11/24 16:44	
Total Radium Calculation	Total Radium	0.789U ± 0.666 (1.21)	pCi/L		03/18/24 11:21	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92715057

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92715057005	**YAT-PZ-37D**					
EPA 9315	Radium-226	1.39 ± 0.377 (0.278) C:96% T:NA	pCi/L		03/15/24 11:45	
EPA 9320	Radium-228	0.385U ± 0.478 (1.01) C:67% T:79%	pCi/L		03/11/24 16:44	
Total Radium Calculation	Total Radium	1.78 ± 0.855 (1.29)	pCi/L		03/18/24 11:21	
92715057006	**YAT-PZ-52D**					
EPA 9315	Radium-226	0.362 ± 0.199 (0.279) C:91% T:NA	pCi/L		03/15/24 11:45	
EPA 9320	Radium-228	0.327U ± 0.398 (0.840) C:70% T:81%	pCi/L		03/11/24 16:44	
Total Radium Calculation	Total Radium	0.689U ± 0.597 (1.12)	pCi/L		03/18/24 11:21	
92715057007	**YAT-YGWC-38**					
EPA 9315	Radium-226	0.0185U ± 0.117 (0.300) C:91% T:NA	pCi/L		03/15/24 13:38	
EPA 9320	Radium-228	0.397U ± 0.498 (1.06) C:70% T:79%	pCi/L		03/12/24 12:59	
Total Radium Calculation	Total Radium	0.416U ± 0.615 (1.36)	pCi/L		03/18/24 11:21	
92715057008	**YAT-YGWC-41**					
EPA 9315	Radium-226	0.164U ± 0.145 (0.262) C:84% T:NA	pCi/L		03/15/24 11:45	
EPA 9320	Radium-228	0.588U ± 0.403 (0.762) C:69% T:83%	pCi/L		03/12/24 12:50	
Total Radium Calculation	Total Radium	0.752U ± 0.548 (1.02)	pCi/L		03/18/24 11:21	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92715057

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92715057009	**YAT-YGWC-42**					
EPA 9315	Radium-226	0.330U ± 0.218 (0.398) C:81% T:NA	pCi/L		03/18/24 08:34	
EPA 9320	Radium-228	0.717 ± 0.398 (0.710) C:73% T:87%	pCi/L		03/12/24 12:50	
Total Radium Calculation	Total Radium	1.05U ± 0.616 (1.11)	pCi/L		03/18/24 15:39	
92715057010	**YAT-YAMW-2**					
EPA 9315	Radium-226	0.0228U ± 0.101 (0.252) C:94% T:NA	pCi/L		03/18/24 08:36	
EPA 9320	Radium-228	0.440U ± 0.592 (1.27) C:69% T:84%	pCi/L		03/12/24 15:57	
Total Radium Calculation	Total Radium	0.463U ± 0.693 (1.52)	pCi/L		03/18/24 15:39	
92715057011	**YAT-YAMW-4**					
EPA 9315	Radium-226	0.0469U ± 0.125 (0.299) C:92% T:NA	pCi/L		03/18/24 08:37	
EPA 9320	Radium-228	0.149U ± 0.437 (0.981) C:75% T:81%	pCi/L		03/12/24 16:45	
Total Radium Calculation	Total Radium	0.196U ± 0.562 (1.28)	pCi/L		03/18/24 15:39	
92715057012	**YAT-YAMW-5**					
EPA 9315	Radium-226	0.278 ± 0.167 (0.259) C:89% T:NA	pCi/L		03/18/24 08:37	
EPA 9320	Radium-228	0.328U ± 0.514 (1.11) C:73% T:72%	pCi/L		03/12/24 16:45	
Total Radium Calculation	Total Radium	0.606U ± 0.681 (1.37)	pCi/L		03/18/24 15:39	

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SUMMARY OF DETECTION

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92715057

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92715057013	**YAT-AMA-R6-EB-1**					
EPA 9315	Radium-226	0.0348U ± 0.0914 (0.221) C:93% T:NA	pCi/L		03/18/24 08:37	
EPA 9320	Radium-228	0.600U ± 0.410 (0.789) C:75% T:95%	pCi/L		03/12/24 16:45	
Total Radium Calculation	Total Radium	0.635U ± 0.501 (1.01)	pCi/L		03/18/24 15:39	
92715057014	**YAT-AMA-R6-FB-1**					
EPA 9315	Radium-226	-0.0218U ± 0.0993 (0.281) C:88% T:NA	pCi/L		03/18/24 08:37	
EPA 9320	Radium-228	0.185U ± 0.420 (0.929) C:75% T:92%	pCi/L		03/12/24 16:45	
Total Radium Calculation	Total Radium	0.185U ± 0.519 (1.21)	pCi/L		03/18/24 15:39	
92715057015	**YAT-YGWC-43**					
EPA 9315	Radium-226	2.81 ± 0.601 (0.273) C:87% T:NA	pCi/L		03/18/24 08:37	
EPA 9320	Radium-228	1.75 ± 0.639 (0.943) C:74% T:82%	pCi/L		03/12/24 16:45	
Total Radium Calculation	Total Radium	4.56 ± 1.24 (1.22)	pCi/L		03/18/24 15:39	
92715057016	**YAT-PZ-51**					
EPA 9315	Radium-226	0.232U ± 0.186 (0.357) C:87% T:NA	pCi/L		03/18/24 08:37	
EPA 9320	Radium-228	0.662U ± 0.478 (0.936) C:72% T:87%	pCi/L		03/12/24 16:45	
Total Radium Calculation	Total Radium	0.894U ± 0.664 (1.29)	pCi/L		03/18/24 15:39	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92715057

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92715057017	**YAT-YGWC-50**					
EPA 9315	Radium-226	0.0765U ± 0.106 (0.226) C:93% T:NA	pCi/L		03/18/24 08:38	
EPA 9320	Radium-228	0.794U ± 0.467 (0.864) C:76% T:86%	pCi/L		03/12/24 16:45	
Total Radium Calculation	Total Radium	0.871U ± 0.573 (1.09)	pCi/L		03/18/24 15:39	
92715057018	**YAT-PZ-55**					
EPA 9315	Radium-226	0.245U ± 0.174 (0.314) C:90% T:NA	pCi/L		03/18/24 08:38	
EPA 9320	Radium-228	0.932U ± 0.560 (1.05) C:73% T:81%	pCi/L		03/12/24 16:45	
Total Radium Calculation	Total Radium	1.18U ± 0.734 (1.36)	pCi/L		03/18/24 15:39	
92715057019	**YAT-YAMW-1**					
EPA 9315	Radium-226	0.218U ± 0.159 (0.284) C:91% T:NA	pCi/L		03/18/24 08:38	
EPA 9320	Radium-228	0.348U ± 0.481 (1.03) C:73% T:81%	pCi/L		03/12/24 16:46	
Total Radium Calculation	Total Radium	0.566U ± 0.640 (1.31)	pCi/L		03/18/24 15:39	
92715057020	**YAT-AMA-R6-FD-1**					
EPA 9315	Radium-226	0.500 ± 0.219 (0.262) C:86% T:NA	pCi/L		03/18/24 08:38	
EPA 9320	Radium-228	-0.399U ± 0.390 (0.982) C:72% T:84%	pCi/L		03/12/24 16:46	
Total Radium Calculation	Total Radium	0.500U ± 0.609 (1.24)	pCi/L		03/18/24 15:39	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92715057

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92715057021	**YAT-YGWC-36A**					
EPA 9315	Radium-226	0.0494U ± 0.115 (0.272) C:81% T:NA	pCi/L		03/18/24 08:38	
EPA 9320	Radium-228	0.487U ± 0.466 (0.952) C:64% T:87%	pCi/L		03/12/24 16:46	
Total Radium Calculation	Total Radium	0.536U ± 0.581 (1.22)	pCi/L		03/18/24 15:39	
92715057022	**YAT-YGWC-24SB**					
EPA 9315	Radium-226	0.00430U ± 0.101 (0.266) C:97% T:NA	pCi/L		03/18/24 10:09	
EPA 9320	Radium-228	0.307U ± 0.411 (0.878) C:73% T:89%	pCi/L		03/13/24 16:05	
Total Radium Calculation	Total Radium	0.311U ± 0.512 (1.14)	pCi/L		03/18/24 15:39	
92715057023	**YAT-PZ-35**					
EPA 9315	Radium-226	0.357 ± 0.169 (0.198) C:92% T:NA	pCi/L		03/18/24 10:09	
EPA 9320	Radium-228	0.467U ± 0.464 (0.959) C:72% T:81%	pCi/L		03/13/24 16:05	
Total Radium Calculation	Total Radium	0.824U ± 0.633 (1.16)	pCi/L		03/18/24 15:39	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92715057

Sample: YAT-YGWC-23S **Lab ID: 92715057001** Collected: 02/21/24 16:37 Received: 02/22/24 09:03 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	**0.211U ± 0.162 (0.286) C:91% T:NA**	pCi/L	03/15/24 11:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.134U ± 0.437 (0.984) C:68% T:83%**	pCi/L	03/11/24 16:43	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.345U ± 0.599 (1.27)**	pCi/L	03/18/24 11:21	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92715057

Sample: YAT-YGWC-49 **Lab ID: 92715057002** Collected: 02/21/24 17:25 Received: 02/22/24 09:03 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	**0.204U ± 0.166 (0.302) C:87% T:NA**	pCi/L	03/15/24 11:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.391U ± 0.390 (0.796) C:73% T:77%**	pCi/L	03/11/24 16:44	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.595U ± 0.556 (1.10)**	pCi/L	03/18/24 11:21	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92715057

Sample: YAT-YAMW-3 **Lab ID: 92715057003** Collected: 02/21/24 12:02 Received: 02/22/24 09:03 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	**0.716 ± 0.263 (0.272) C:92% T:NA**	pCi/L	03/15/24 11:45	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.257U ± 0.333 (0.707) C:75% T:87%**	pCi/L	03/11/24 16:44	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.973U ± 0.596 (0.979)**	pCi/L	03/18/24 11:21	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92715057

Sample: YAT-PZ-37 **Lab ID: 92715057004** Collected: 02/21/24 09:54 Received: 02/22/24 09:03 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	**0.789 ± 0.285 (0.314) C:90% T:NA**	pCi/L	03/15/24 11:45	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.0250U ± 0.381 (0.896) C:75% T:80%**	pCi/L	03/11/24 16:44	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.789U ± 0.666 (1.21)**	pCi/L	03/18/24 11:21	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92715057

Sample: YAT-PZ-37D **Lab ID: 92715057005** Collected: 02/21/24 14:13 Received: 02/22/24 09:03 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	**1.39 ± 0.377 (0.278) C:96% T:NA**	pCi/L	03/15/24 11:45	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.385U ± 0.478 (1.01) C:67% T:79%**	pCi/L	03/11/24 16:44	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.78 ± 0.855 (1.29)**	pCi/L	03/18/24 11:21	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92715057

Sample: YAT-PZ-52D **Lab ID: 92715057006** Collected: 02/21/24 10:58 Received: 02/22/24 09:03 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	**0.362 ± 0.199 (0.279) C:91% T:NA**	pCi/L	03/15/24 11:45	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.327U ± 0.398 (0.840) C:70% T:81%**	pCi/L	03/11/24 16:44	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.689U ± 0.597 (1.12)**	pCi/L	03/18/24 11:21	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92715057

Sample: YAT-YGWC-38 **Lab ID: 92715057007** Collected: 02/22/24 09:48 Received: 02/23/24 09:18 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	**0.0185U ± 0.117 (0.300) C:91% T:NA**	pCi/L	03/15/24 13:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.397U ± 0.498 (1.06) C:70% T:79%**	pCi/L	03/12/24 12:59	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.416U ± 0.615 (1.36)**	pCi/L	03/18/24 11:21	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92715057

Sample: YAT-YGWC-41 **Lab ID: 92715057008** Collected: 02/22/24 15:33 Received: 02/23/24 09:18 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	**0.164U ± 0.145 (0.262) C:84% T:NA**	pCi/L	03/15/24 11:45	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.588U ± 0.403 (0.762) C:69% T:83%**	pCi/L	03/12/24 12:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.752U ± 0.548 (1.02)**	pCi/L	03/18/24 11:21	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92715057

Sample: YAT-YGWC-42 **Lab ID: 92715057009** Collected: 02/22/24 17:08 Received: 02/23/24 09:18 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	**0.330U ± 0.218 (0.398) C:81% T:NA**	pCi/L	03/18/24 08:34	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.717 ± 0.398 (0.710) C:73% T:87%**	pCi/L	03/12/24 12:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.05U ± 0.616 (1.11)**	pCi/L	03/18/24 15:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92715057

Sample: YAT-YAMW-2 **Lab ID: 92715057010** Collected: 02/22/24 12:20 Received: 02/23/24 09:18 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	**0.0228U ± 0.101 (0.252) C:94% T:NA**	pCi/L	03/18/24 08:36	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.440U ± 0.592 (1.27) C:69% T:84%**	pCi/L	03/12/24 15:57	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.463U ± 0.693 (1.52)**	pCi/L	03/18/24 15:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92715057

Sample: YAT-YAMW-4 **Lab ID: 92715057011** Collected: 02/22/24 13:52 Received: 02/23/24 09:18 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 ± 0.125 (0.299) C:92% T:NA**	pCi/L	03/18/24 08:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.149U ± 0.437 (0.981) C:75% T:81%**	pCi/L	03/12/24 16:45	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.196U ± 0.562 (1.28)**	pCi/L	03/18/24 15:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92715057

Sample: YAT-YAMW-5 **Lab ID: 92715057012** Collected: 02/22/24 11:15 Received: 02/23/24 09:18 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	**0.278 ± 0.167 (0.259) C:89% T:NA**	pCi/L	03/18/24 08:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.328U ± 0.514 (1.11) C:73% T:72%**	pCi/L	03/12/24 16:45	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.606U ± 0.681 (1.37)**	pCi/L	03/18/24 15:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92715057

Sample: YAT-AMA-R6-EB-1 **Lab ID: 92715057013** Collected: 02/22/24 14:40 Received: 02/23/24 09:18 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	**0.0348U ± 0.0914 (0.221) C:93% T:NA**	pCi/L	03/18/24 08:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.600U ± 0.410 (0.789) C:75% T:95%**	pCi/L	03/12/24 16:45	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.635U ± 0.501 (1.01)**	pCi/L	03/18/24 15:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92715057

Sample: YAT-AMA-R6-FB-1 **Lab ID: 92715057014** Collected: 02/22/24 11:25 Received: 02/23/24 09:18 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	**-0.0218U ± 0.0993 (0.281) C:88% T:NA**	pCi/L	03/18/24 08:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.185U ± 0.420 (0.929) C:75% T:92%**	pCi/L	03/12/24 16:45	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.185U ± 0.519 (1.21)**	pCi/L	03/18/24 15:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92715057

Sample: YAT-YGWC-43 **Lab ID: 92715057015** Collected: 02/22/24 16:51 Received: 02/23/24 09:18 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	**2.81 ± 0.601 (0.273) C:87% T:NA**	pCi/L	03/18/24 08:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.75 ± 0.639 (0.943) C:74% T:82%**	pCi/L	03/12/24 16:45	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**4.56 ± 1.24 (1.22)**	pCi/L	03/18/24 15:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92715057

Sample: YAT-PZ-51 **Lab ID: 92715057016** Collected: 02/22/24 17:30 Received: 02/23/24 09:18 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	**0.232U ± 0.186 (0.357) C:87% T:NA**	pCi/L	03/18/24 08:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.662U ± 0.478 (0.936) C:72% T:87%**	pCi/L	03/12/24 16:45	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.894U ± 0.664 (1.29)**	pCi/L	03/18/24 15:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92715057

Sample: YAT-YGWC-50 **Lab ID: 92715057017** Collected: 02/22/24 10:20 Received: 02/23/24 09:18 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	**0.0765U ± 0.106 (0.226) C:93% T:NA**	pCi/L	03/18/24 08:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.794U ± 0.467 (0.864) C:76% T:86%**	pCi/L	03/12/24 16:45	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.871U ± 0.573 (1.09)**	pCi/L	03/18/24 15:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92715057

Sample: YAT-PZ-55 **Lab ID: 92715057018** Collected: 02/22/24 14:39 Received: 02/23/24 09:18 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	**0.245U ± 0.174 (0.314) C:90% T:NA**	pCi/L	03/18/24 08:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.932U ± 0.560 (1.05) C:73% T:81%**	pCi/L	03/12/24 16:45	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.18U ± 0.734 (1.36)**	pCi/L	03/18/24 15:39	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92715057

Sample: YAT-YAMW-1 **Lab ID: 92715057019** Collected: 02/23/24 09:20 Received: 02/24/24 11:33 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	**0.218U ± 0.159 (0.284) C:91% T:NA**	pCi/L	03/18/24 08:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.348U ± 0.481 (1.03) C:73% T:81%**	pCi/L	03/12/24 16:46	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.566U ± 0.640 (1.31)**	pCi/L	03/18/24 15:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92715057

Sample: YAT-AMA-R6-FD-1 **Lab ID: 92715057020** Collected: 02/23/24 00:00 Received: 02/24/24 11:33 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	**0.500 ± 0.219 (0.262) C:86% T:NA**	pCi/L	03/18/24 08:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.399U ± 0.390 (0.982) C:72% T:84%**	pCi/L	03/12/24 16:46	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.500U ± 0.609 (1.24)**	pCi/L	03/18/24 15:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92715057

Sample: YAT-YGWC-36A **Lab ID: 92715057021** Collected: 02/23/24 14:24 Received: 02/24/24 11:33 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	**0.0494U ± 0.115 (0.272) C:81% T:NA**	pCi/L	03/18/24 08:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.487U ± 0.466 (0.952) C:64% T:87%**	pCi/L	03/12/24 16:46	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.536U ± 0.581 (1.22)**	pCi/L	03/18/24 15:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92715057

Sample: YAT-YGWC-24SB **Lab ID: 92715057022** Collected: 02/23/24 13:08 Received: 02/24/24 11:33 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	**0.00430U ± 0.101 (0.266) C:97% T:NA**	pCi/L	03/18/24 10:09	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.307U ± 0.411 (0.878) C:73% T:89%**	pCi/L	03/13/24 16:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.311U ± 0.512 (1.14)**	pCi/L	03/18/24 15:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92715057

Sample: YAT-PZ-35 **Lab ID: 92715057023** Collected: 02/23/24 11:10 Received: 02/24/24 11:33 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	**0.357 ± 0.169 (0.198) C:92% T:NA**	pCi/L	03/18/24 10:09	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.467U ± 0.464 (0.959) C:72% T:81%**	pCi/L	03/13/24 16:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.824U ± 0.633 (1.16)**	pCi/L	03/18/24 15:39	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92715057

QC Batch: 651836 Analysis Method: EPA 9320
QC Batch Method: EPA 9320 Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92715057007, 92715057008, 92715057009, 92715057010, 92715057011, 92715057012, 92715057013, 92715057014, 92715057015, 92715057016, 92715057017, 92715057018, 92715057019, 92715057020, 92715057021

METHOD BLANK: 3175611 Matrix: Water
Associated Lab Samples: 92715057007, 92715057008, 92715057009, 92715057010, 92715057011, 92715057012, 92715057013, 92715057014, 92715057015, 92715057016, 92715057017, 92715057018, 92715057019, 92715057020, 92715057021

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.173 ± 0.373 (0.826) C:73% T:85%	pCi/L	03/12/24 12:53	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92715057

QC Batch: 652557
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92715057022, 92715057023

METHOD BLANK: 3178917 Matrix: Water
Associated Lab Samples: 92715057022, 92715057023

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	-0.0560 ± 0.345 (0.817) C:73% T:88%	pCi/L	03/13/24 16:06	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92715057

QC Batch: 651515 Analysis Method: EPA 9315
QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92715057001, 92715057002, 92715057003, 92715057004, 92715057005, 92715057006, 92715057007, 92715057008

METHOD BLANK: 3174171 Matrix: Water
Associated Lab Samples: 92715057001, 92715057002, 92715057003, 92715057004, 92715057005, 92715057006, 92715057007, 92715057008

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0485 ± 0.125 (0.300) C:96% T:NA	pCi/L	03/15/24 11:42	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92715057

QC Batch: 651359 Analysis Method: EPA 9320
QC Batch Method: EPA 9320 Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92715057001, 92715057002, 92715057003, 92715057004, 92715057005, 92715057006

METHOD BLANK: 3173423 Matrix: Water
Associated Lab Samples: 92715057001, 92715057002, 92715057003, 92715057004, 92715057005, 92715057006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.310 ± 0.405 (0.865) C:73% T:92%	pCi/L	03/11/24 16:47	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92715057

QC Batch: 652903 Analysis Method: EPA 9315
QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92715057009, 92715057010, 92715057011, 92715057012, 92715057013, 92715057014, 92715057015, 92715057016, 92715057017, 92715057018, 92715057019, 92715057020, 92715057021, 92715057022, 92715057023

METHOD BLANK: 3180680 Matrix: Water
Associated Lab Samples: 92715057009, 92715057010, 92715057011, 92715057012, 92715057013, 92715057014, 92715057015, 92715057016, 92715057017, 92715057018, 92715057019, 92715057020, 92715057021, 92715057022, 92715057023

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0533 ± 0.0799 (0.258) C:95% T:NA	pCi/L	03/18/24 08:33	

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

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

QUALIFIERS

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92715057

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.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92715057

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92715057001	**YAT-YGWC-23S**	EPA 9315	651515		
92715057002	**YAT-YGWC-49**	EPA 9315	651515		
92715057003	**YAT-YAMW-3**	EPA 9315	651515		
92715057004	**YAT-PZ-37**	EPA 9315	651515		
92715057005	**YAT-PZ-37D**	EPA 9315	651515		
92715057006	**YAT-PZ-52D**	EPA 9315	651515		
92715057007	**YAT-YGWC-38**	EPA 9315	651515		
92715057008	**YAT-YGWC-41**	EPA 9315	651515		
92715057009	**YAT-YGWC-42**	EPA 9315	652903		
92715057010	**YAT-YAMW-2**	EPA 9315	652903		
92715057011	**YAT-YAMW-4**	EPA 9315	652903		
92715057012	**YAT-YAMW-5**	EPA 9315	652903		
92715057013	**YAT-AMA-R6-EB-1**	EPA 9315	652903		
92715057014	**YAT-AMA-R6-FB-1**	EPA 9315	652903		
92715057015	**YAT-YGWC-43**	EPA 9315	652903		
92715057016	**YAT-PZ-51**	EPA 9315	652903		
92715057017	**YAT-YGWC-50**	EPA 9315	652903		
92715057018	**YAT-PZ-55**	EPA 9315	652903		
92715057019	**YAT-YAMW-1**	EPA 9315	652903		
92715057020	**YAT-AMA-R6-FD-1**	EPA 9315	652903		
92715057021	**YAT-YGWC-36A**	EPA 9315	652903		
92715057022	**YAT-YGWC-24SB**	EPA 9315	652903		
92715057023	**YAT-PZ-35**	EPA 9315	652903		
92715057001	**YAT-YGWC-23S**	EPA 9320	651359		
92715057002	**YAT-YGWC-49**	EPA 9320	651359		
92715057003	**YAT-YAMW-3**	EPA 9320	651359		
92715057004	**YAT-PZ-37**	EPA 9320	651359		
92715057005	**YAT-PZ-37D**	EPA 9320	651359		
92715057006	**YAT-PZ-52D**	EPA 9320	651359		
92715057007	**YAT-YGWC-38**	EPA 9320	651836		
92715057008	**YAT-YGWC-41**	EPA 9320	651836		
92715057009	**YAT-YGWC-42**	EPA 9320	651836		
92715057010	**YAT-YAMW-2**	EPA 9320	651836		
92715057011	**YAT-YAMW-4**	EPA 9320	651836		
92715057012	**YAT-YAMW-5**	EPA 9320	651836		
92715057013	**YAT-AMA-R6-EB-1**	EPA 9320	651836		
92715057014	**YAT-AMA-R6-FB-1**	EPA 9320	651836		
92715057015	**YAT-YGWC-43**	EPA 9320	651836		
92715057016	**YAT-PZ-51**	EPA 9320	651836		
92715057017	**YAT-YGWC-50**	EPA 9320	651836		
92715057018	**YAT-PZ-55**	EPA 9320	651836		
92715057019	**YAT-YAMW-1**	EPA 9320	651836		
92715057020	**YAT-AMA-R6-FD-1**	EPA 9320	651836		
92715057021	**YAT-YGWC-36A**	EPA 9320	651836		
92715057022	**YAT-YGWC-24SB**	EPA 9320	652557		
92715057023	**YAT-PZ-35**	EPA 9320	652557		

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92715057

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92715057001	**YAT-YGWC-23S**	Total Radium Calculation	655757		
92715057002	**YAT-YGWC-49**	Total Radium Calculation	655757		
92715057003	**YAT-YAMW-3**	Total Radium Calculation	655757		
92715057004	**YAT-PZ-37**	Total Radium Calculation	655757		
92715057005	**YAT-PZ-37D**	Total Radium Calculation	655757		
92715057006	**YAT-PZ-52D**	Total Radium Calculation	655757		
92715057007	**YAT-YGWC-38**	Total Radium Calculation	655757		
92715057008	**YAT-YGWC-41**	Total Radium Calculation	655757		
92715057009	**YAT-YGWC-42**	Total Radium Calculation	655855		
92715057010	**YAT-YAMW-2**	Total Radium Calculation	655855		
92715057011	**YAT-YAMW-4**	Total Radium Calculation	655855		
92715057012	**YAT-YAMW-5**	Total Radium Calculation	655855		
92715057013	**YAT-AMA-R6-EB-1**	Total Radium Calculation	655855		
92715057014	**YAT-AMA-R6-FB-1**	Total Radium Calculation	655855		
92715057015	**YAT-YGWC-43**	Total Radium Calculation	655855		
92715057016	**YAT-PZ-51**	Total Radium Calculation	655855		
92715057017	**YAT-YGWC-50**	Total Radium Calculation	655855		
92715057018	**YAT-PZ-55**	Total Radium Calculation	655855		
92715057019	**YAT-YAMW-1**	Total Radium Calculation	655855		
92715057020	**YAT-AMA-R6-FD-1**	Total Radium Calculation	655855		
92715057021	**YAT-YGWC-36A**	Total Radium Calculation	655855		
92715057022	**YAT-YGWC-24SB**	Total Radium Calculation	655855		
92715057023	**YAT-PZ-35**	Total Radium Calculation	655855		

Pace	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Cu River

Project #: WO# : 92715057

92715057

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: 7/12/24 JC

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

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

Thermometer:

☑ IR Gun ID: 730 **Type of Ice:** ☑ Wet ☐ Blue ☐ None

Cooler Temp: 2.2 **Correction Factor:** Add/Subtract (°C) +0.1

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 2.3

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: L				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

Pace	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

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

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

***Check all unpreserved Nitrates for chlorine

Project # **WO# : 92715057**

PM: BV Due Date: 03/14/24

CLIENT: 92-GP-Yates

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1																		2				
2		2	1			1																		2				
3																												
4																												
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

pH Adjustment Log for Preserved Samples

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

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

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

92715057

Company Name: Southern Company
Street Address: 241 Ralph McGill Blvd, Atlanta, GA 30308
Customer Project #: Task No. YAT-CCR-ASSMT-2024S1
Project Name: Georgia Power Yates
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', R6

Contact/Report To: Lauren Hartley
Phone #: 470-620-6176
E-Mail: laucoker@southernco.com
Cc E-Mail: Arcadis contacts
Invoice To:
Invoice E-Mail:
Purchase Order # (if applicable): GPC82474-0002
Quote #:

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET
County / State origin of sample(s): Georgia

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

Regulatory Program (DW, RCRA, etc.) as applicable:
Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other
Date Results Requested: Std TAT
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

**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 Date	Collected Time	Composite End Date	Composite End Time	Res. Cl2	Plastic	Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/9320	Alkalinity (SM2320B)	Sample Comment
YAT-YGWC-23S	WG	G	2/21/24	1637				6		X	X	X	X	X	See Remarks 001
YAT-YAMW-1	WG	G						6		X	X	X	X	X	See Remarks
YAT-AMA-R6-FD-1	WG	G						6		X	X	X	X	X	See Remarks
YAT-YGWC-36A	WG	G						6		X	X	X	X	X	See Remarks
YAT-YGWC-49	WG	G						6		X	X	X	X	X	See Remarks
YAT-YGWC-38	WG	G						6		X	X	X	X	X	See Remarks
YAT-YGWC-24SB	WG	G						6		X	X	X	X	X	
YAT-YGWC-41	WG	G						6		X	X	X	X	X	See Remarks
YAT-YGWC-42	WG	G						6		X	X	X	X	X	See Remarks
YAT-YGWC-43	WG	G						6		X	X	X	X	X	See Remarks

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): Ca, 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	2/22/24 0903	[illegible] / Pace	2/22/24 [illegible]	Tracking Number:
[illegible] / Pace	2/22/24 1545	[signature]	2/22 1545	Delivered by: [ ] In-Person [ ] Courier
				[ ] FedEX [ ] UPS [ ] Other
				Page: 1 of 1

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v01_082123 ©

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:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	faucoker@southernco.com
		Cc E-Mail	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202451	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', R6		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

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

County / State origin of sample(s): Georgia

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

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

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

Date Results Requested: STANDARD TAT

DW PWSID # or WW Permit # as applicable:

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

Analysis:

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

Specify Container Size **: 3 3 2 1 3

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

Analysis Requested

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment	Preservation non-conformance identified for sample
YAT-YGWC-23S	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YAMW-1	WG	G						6		X	X	X	X	X	See Remarks	
YAT-AMA-R6-FD-1	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWC-36A	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWC-49	WG	G	2/21/24	1725	—	—		6		X	X	X	X	X	See Remarks CN2	
YAT-YGWC-38	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWC-24SB	WG	G						6		X	X	X	X	X		
YAT-YGWC-41	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWC-42	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWC-43	WG	G						6		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:

**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): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

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

Additional Instructions from Pace®:

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

Relinquished by/Company: (Signature)	Date/Time: 2/22/24 0900	Received by/Company: (Signature)	Date/Time: 2/22/24 0900	Tracking Number:
Relinquished by/Company: (Signature)	Date/Time: 2/22/24 0903	Received by/Company: (Signature)	Date/Time: 2/22/24 0903	Delivered by: [ ] In-Person [ ] Courier
Relinquished by/Company: (Signature)	Date/Time: 2/22/24 1545	Received by/Company: (Signature)	Date/Time: 2/22 1545	[ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Ga Power

Project #: **WO# : 92715057**

PM: BV **Due Date: 03/14/24**

CLIENT: 92-GP-Yates

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

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

Date/Initials Person Examining Contents: 2/21/24 SM

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

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

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

Cooler Temp: 3.1 **Correction Factor:** Add/Subtract (°C) +0.1

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 3.2

USDA Regulated Soil (☐ N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

WO#: 92715057

PM: BV **Due Date: 03/14/24**

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 #

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)	BP3N	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1																			4				
2		2	1			1																			4				
3		2	1			1																			4				
4		2	1			1																			4				
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

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

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

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

CHAIN-OF-CUSTODY Analytical Request Document

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

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308
Customer Project #:	Task No. YAT-CCR-ASSMT-202451
Project Name:	Georgia Power Yates
Site Collection Info/Facility ID (as applicable):	YAT AP-3, A, B/B', R6
Time Zone Collected:	[ ] AK [ ] PT [ ] MT [ ] CT [X] ET
Data Deliverables:	[X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other_____
Contact/Report To:	Lauren Hartley
Phone #:	470-620-6176
E-Mail:	laucoker@southernco.com
Cc E-Mail:	Arcadis contacts
Invoice To:	
Invoice E-Mail:	
Purchase Order # (if applicable):	GPC82474-0002
Quote #:	
County / State origin of sample(s):	Georgia
Regulatory Program (DW, RCRA, etc.) as applicable:	
Rush (Pre-approval required):	[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____
Date Results Requested:	Standard TAT
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

**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. Cl 2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment	Preservation non-conformance identified for sample
YAT-YAMW-2	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YAMW-3	WG	G	2/21/23	1222	-	-	-	6		X	X	X	X	X	See Remarks	
YAT-YAMW-4	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YAMW-5	WG	G						6		X	X	X	X	X	See Remarks	
YAT-PZ-37	WG	G						6		X	X	X	X	X	See Remarks	
YAT-PZ-35	WG	G						6		X	X	X	X	X	See Remarks	
YAT-PZ-37D	WG	G						6		X	X	X	X	X	See Remarks	
YAT-PZ-51	WG	G						6		X	X	X	X	X	See Remarks	
YAT-PZ-52D	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWC-50	WG	G						6		X	X	X	X	X	See Remarks	

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

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

Collected By:
Printed Name: (Arcadis) - Mark Chesl
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:
Mark Chesl / Arcadis	2/21/24 1302	Jessica Cole / Arcadis	2/21/24 1302
Jessica Cole / Arcadis	2/22/24 0903	Ryan Williams / Pace	2/22/24 0903
Ryan Williams / Pace	2/22/24 1546		2/22/24 1546
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

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

Page: 1 of 1

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

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:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202451	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', R6		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

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

County / State origin of sample(s): Georgia

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

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

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

Date Results Requested: Std TAT

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-YAMW-2	WG	G						6		X	X	X	X	X	See Remarks
YAT-YAMW-3	WG	G						6		X	X	X	X	X	See Remarks
YAT-YAMW-4	WG	G						6		X	X	X	X	X	See Remarks
YAT-YAMW-5	WG	G						6		X	X	X	X	X	See Remarks
YAT-PZ-37	WG	G	2/21/24	0954				6		X	X	X	X	X	See Remarks UG4
YAT-PZ-35	WG	G						6		X	X	X	X	X	See Remarks
YAT-PZ-37D	WG	G	2/21/24	1413				6		X	X	X	X	X	See Remarks UG5
YAT-PZ-51	WG	G						6		X	X	X	X	X	See Remarks
YAT-PZ-52D	WG	G	2/21/24	1038				6		X	X	X	X	X	See Remarks UG6
YAT-YGWC-50	WG	G						6		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): Ca, 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	2/22/24 0903	[illegible] / Pace	2/22/24 0903
[illegible] / Pace	2/22/24 1545	[illegible]	2/22 1545

Tracking Number:

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

Pace	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #: WO#: 92715057

PM: BV Due Date: 03/14/24

CLIENT: 92-GP-Yates

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: 2/23/24 CP

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: 1.3 **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	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

Pace	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

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

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

***Check all unpreserved Nitrates for chlorine

Project # **WO#: 92715057**

PM: BV Due Date: 03/14/24

CLIENT: 92-GP-Yates

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)	BP1N	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1																		2				
2		2	1			1																		2				
3		2	1			1																		2				
4		2	1			1																		2				
5		2	1			1																		2				
6		2	1			1																		2				
7		2	1			1																		2				
8		2	1			1																		2				
9																												
10																												
11																												
12																												

BP1N

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

9L715057

Company Name:	Southern Company	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202451	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', R6		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

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

County / State origin of sample(s): Georgia

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

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

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

Date Results Requested: STANDARD TAT

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	Preservation non-conformance identified for sample
								Specify Container Size.**		3	3	2	1	3		
								Identify Container Preservative Type***		2	1	1	2	1		
								Analysis Requested								
YAT-YGWC-23S	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YAMW-1	WG	G						6		X	X	X	X	X	See Remarks	
YAT-AMA-R6-FD-1	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWC-36A	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWC-49	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWC-38	WG	G	2/22/24	0948	—	—		6		X	X	X	X	X	See Remarks UO7	
YAT-YGWC-24SB	WG	G						6		X	X	X	X	X		
YAT-YGWC-41	WG	G	2/22/24	1533	—	—		6		X	X	X	X	X	See Remarks UO8	
YAT-YGWC-42	WG	G	2/22/24	1708	—	—		6		X	X	X	X	X	See Remarks UO9	
YAT-YGWC-43	WG	G						6		X	X	X	X	X	See Remarks	

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

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

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

Additional Instructions from Pace®:

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

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
[signature] / ARCADIS	2/23/24 0918	Ryan Williams / Pace	2/23/24 0918	
Ryan Williams / Pace	2/24/24 1307	[signature]	2/23/24 1307	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: 1 of 3

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:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2024S1	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', R6		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

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

County / State origin of sample(s): Georgia

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

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

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

Date Results Requested: STANDARD TAT

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-YAMW-2	WG	G	2/22/24	1220	—	—		6		X	X	X	X	X	See Remarks GW
YAT-YAMW-3	WG	G						6		X	X	X	X	X	See Remarks
YAT-YAMW-4	WG	G	2/22/24	1352	—	—		6		X	X	X	X	X	See Remarks GW1
YAT-YAMW-5	WG	G	2/22/24	1115	—	—		6		X	X	X	X	X	See Remarks GW2
YAT-PZ-37	WG	G						6		X	X	X	X	X	See Remarks
YAT-PZ-35	WG	G						6		X	X	X	X	X	See Remarks
YAT-PZ-37D	WG	G						6		X	X	X	X	X	See Remarks
YAT-PZ-51	WG	G						6		X	X	X	X	X	See Remarks
YAT-PZ-52D	WG	G						6		X	X	X	X	X	See Remarks
YAT-YGWC-50	WG	G						6		X	X	X	X	X	See Remarks

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

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

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

Preservation non-conformance identified for sample.

Customer Remarks / Special Conditions / Possible Hazards:

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

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

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

Collected By: Printed Name: (Arcadis) - Kim Lapsynski; Signature: (Arcadis)

Additional Instructions from Pace®:

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

Relinquished by/Company: (Signature)	Date/Time: 2/23/24 0918	Received by/Company: (Signature)	Date/Time: 2/23/24 0918	Tracking Number:
Relinquished by/Company: (Signature) Ryan Williams / Pace	Date/Time: 2/23/24 1307	Received by/Company: (Signature)	Date/Time: 2/23/24 1307	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: 2 of 3

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

CHAIN-OF-CUSTODY Analytical Request Document

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Scan QR Code for instructions

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Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2024S1	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', R6		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

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

County / State origin of sample(s): Georgia

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

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

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

Date Results Requested: STANDARD TAT

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-AMA-R6-EB-1	WG	G	2/22/24	1440	—	—		6		X	X	X	X	X	See Remarks 013	
YAT-AMA-R6-FB-1	WG	G	2/22/24	1125	—	—		6		X	X	X	X	X	See Remarks 014	
YAT-YGWC-24SB	WG	G						6		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): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) ICIAR LAPSZYNSKI
Signature: (Arcadis)

Additional instructions from Pace®:

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

Relinquished by/Company: (Signature)	Date/Time	Received by/Company: (Signature)	Date/Time	Tracking Number:
ARCADIS	2/23/24 0918	Ryan Williams / Pace	2/23/24 0918	
Ryan Williams / Pace	2/23/24 1307		2/23/24 1307	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: 3 of 3

Pace	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mech[illegible] ☐ Atlanta ☐ ✓ Kernersville ☐

Sample Condition Upon Receipt

WO#: 92715057

PM: BV **Due Date: 03/14/24**

CLIENT: 92-GP-Yates

Client Name: GA Power

Project #:

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

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

Date/Initials Person Examining Contents: 2/23/24 CH

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: 1.3 **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	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

Pace	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

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

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

***Check all unpreserved Nitrates for chlorine

Project # **WO#: 92715057**

PM: BV Due Date: 03/14/24

CLIENT: 92-GP-Yates

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)	BP1N	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1																		2				
2		2	1			1																		2				
3		2	1			1																		2				
4		2	1			1																		2				
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

pH Adjustment Log for Preserved Samples

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

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

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

CHAIN-OF-CUSTODY Analytical Request Document

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Company Name:	Southern Company	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2024S1	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', R6		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

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

County / State origin of sample(s): Georgia

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

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

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

Date Results Requested: Std TAT

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	Preservation non-conformance identified for sample
YAT-YGWC-23S	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YAMW-1	WG	G						6		X	X	X	X	X	See Remarks	
YAT-AMA-R6-FD-1	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWC-36A	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWC-49	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWC-38	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWC-24SB	WG	G						6		X	X	X	X	X		
YAT-YGWC-41	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWC-42	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWC-43	WG	G	2/22/24	1651				6		X	X	X	X	X	See Remarks 015	

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 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): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:

Printed Name: (Arcadis) - Jessica Ware

Signature: (Arcadis) - Jessica Ware

Additional Instructions from Pace®:

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

Relinquished by/Company: (Signature)	Date/Time	Received by/Company: (Signature)	Date/Time	Tracking Number:
Jessica Ware / Arcadis	2/23/24 0800	[illegible] / ARCADIS	2/23/24 0800	
[illegible] / ARCADIS	2/23/24 0918	Ryan Williams / Pace	2/23/24 0918	Delivered by: [ ] In-Person [ ] Courier
Ryan Williams / Pace	2/23/24 1301	[illegible]	2/23/24 1307	[ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 1 of 3

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

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Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2024S1	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', R6		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

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

County / State origin of sample(s): Georgia

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

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

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

Date Results Requested: Std TAT

DW PWSID # or WW Permit # as applicable:

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

Analysis:

Specify Container Size **: 3 3 2 1 3

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

Analysis Requested

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

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

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

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

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment	Preservation non-conformance identified for sample.
YAT-YAMW-2	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YAMW-3	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YAMW-4	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YAMW-5	WG	G						6		X	X	X	X	X	See Remarks	
YAT-PZ-37	WG	G						6		X	X	X	X	X	See Remarks	
YAT-PZ-35	WG	G						6		X	X	X	X	X	See Remarks	
YAT-PZ-37D	WG	G						6		X	X	X	X	X	See Remarks	
YAT-PZ-51	WG	G	2/22/24	1730				6		X	X	X	X	X	See Remarks 616	
YAT-PZ-52D	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWC-50	WG	G	2/22/24	1020				6		X	X	X	X	X	See Remarks 617	

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): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

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

Additional instructions from Pace®:

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

Relinquished by/Company: (Signature) Jessica Ware / Arcadis	Date/Time: 2/23/24 / 0800	Received by/Company: (Signature) / ARCADIS	Date/Time: 2/23/24 / 0800	Tracking Number:	
Relinquished by/Company: (Signature) / ARCADIS	Date/Time: 2/23/24 / 0918	Received by/Company: (Signature) Ryan Williams / Pace	Date/Time: 2/23/24 / 0918	Delivered by: [ ] In-Person [ ] Courier	
Relinquished by/Company: (Signature) Ryan Williams / Pace	Date/Time: 2/23/24 / 1301	Received by/Company: (Signature) / Pace	Date/Time: 2/23/24 / 1307	[ ] FedEx [ ] UPS [ ] Other	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 2 of 3	

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:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2024S1	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', R6		Purchase Order # (if applicable):	GPCB2474-0002
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET		County / State origin of sample(s):	Georgia

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

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

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

Date Results Requested: Std TAT

DW PWSID # or WW Permit # as applicable:

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

Analysis:

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

Specify Container Size **: 3 3 2 1 3

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

Analysis Requested

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

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

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

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. CL2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment	Preservation non-conformance ident fied for sample
YAT-AMA-R6-EB-1	WG	G						6		X	X	X	X	X	See Remarks	
YAT-AMA-R6-FB-1	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWC-24SB	WG	G						6		X	X	X	X	X	See Remarks	
YAT-PZ-55	WG	G	2/22/24	1439				6		X	X	X	X	X	018	

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): Ca, 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	2/23/24 0800	[illegible] / ARCADIS	2/23/24 0800
[illegible] / ARCADIS	2/23/24 0918	Ryan Williams / Pace	2/23/24 0918
Ryan Williams / Pace	2/23/24 1307	[illegible]	2/23/24 1307

Tracking Number:

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

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

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

Sample Condition Upon Receipt

Client Name: Southern Company - GA Power

Project #: **WO#: 92715057**

PM: BV **Due Date: 03/14/24**

CLIENT: 92-GP-Yates

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

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

Date/Initials Person Examining Contents: MJM

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

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

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

Cooler Temp: 4.3 **Correction Factor:** Add/Subtract (°C) +0.1

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

Cooler Temp Corrected (°C): 4.4

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

Pace	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

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

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

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

***Check all unpreserved Nitrates for chlorine

Project # **WO#: 92715057**

PM: BV Due Date: 03/14/24

CLIENT: 92-GP-Yates

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)	BP1Z	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1																			2				
2		2	1			1																			2				
3		2	1			1																			2				
4		2	1			1																			2				
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

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

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

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

CHAIN-OF-CUSTODY Analytical Request Document

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

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

92715057

Company Name:	Southern Company	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	lautoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202451	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', R6		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

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

County / State origin of sample(s): Georgia

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

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

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

Date Results Requested: STANDARD TAT

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) TnCore, (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-YGWC-23S	WG	G			—	—		6		X	X	X	X	X	See Remarks	
YAT-YAMW-1	WG	G	2/23/24	0920	—	—		6		X	X	X	X	X	See Remarks 019	
YAT-AMA-R6-FD-1	WG	G	2/23/24	—	—	—		6		X	X	X	X	X	See Remarks 020	
YAT-YGWC-36A	WG	G	2/23/24	1424	—	—		6		X	X	X	X	X	See Remarks 021	
YAT-YGWC-49	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWC-38	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWC-24SB	WG	G	2/23/24	1308	—	—		6		X	X	X	X	X	022	
YAT-YGWC-41	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWC-42	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWC-43	WG	G						6		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): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By: Printed Name: (Arcadis) KIM LAMSTYNSKI; 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:
KIM LAMSTYNSKI	2/23/24 1600	Jessica Dove / Arcadis	2/23/24 1600	
Jessica Dove / Arcadis	2/24/24 1133	MJW	2/24/24 1133	Delivered by: [ ] In- Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
				Page: 1 of 2

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

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

CHAIN-OF-CUSTODY Analytical Request Document

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LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2024S1	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', RS		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET		County / State origin of sample(s):	Georgia
Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other		Regulatory Program (DW, RCRA, etc.) as applicable:	
		Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other	DW PWSID # or WW Permit # as applicable:
		Date Results Requested: STANDARD TAT	Field Filtered (if applicable): [ ] Yes [X] No
			Analysis:

Specify Container Size **: 3 3 2 1 3

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

Analysis Requested

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

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

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

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

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers: Plastic	Number & Type of Containers: Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment	Preservation non-conformance identified for sample.
YAT-YAMW-2	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YAMW-3	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YAMW-4	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YAMW-5	WG	G						6		X	X	X	X	X	See Remarks	
YAT-PZ-37	WG	G						6		X	X	X	X	X	See Remarks	
YAT-PZ-35	WG	G	2/23/24	1110	—	—		6		X	X	X	X	X	See Remarks 023	
YAT-PZ-37D	WG	G						6		X	X	X	X	X	See Remarks	
YAT-PZ-51	WG	G						6		X	X	X	X	X	See Remarks	
YAT-PZ-52D	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWC-50	WG	G						6		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): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - KIM LAPSEVNSKI
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	2/23/24 1600	Arcadis	2/23/24 1600
Arcadis	2/24/24 1133		2/24/24 1133

Tracking Number:

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

Page: 2 of 2

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	JJS1
Date:	3/5/2024
Worklist:	77864
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3173423
MB concentration:	0.310
M/B 2 Sigma CSU:	0.405
MB MDC:	0.865
MB Numerical Performance Indicator:	1.50
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS77864	LCSD77864
Count Date:	3/11/2024	1/0/1900
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	37.540	119275490.841
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.820	0.822
Target Conc. (pCi/L, g, F):	4.575	14511106.482
Uncertainty (Calculated):	0.224	711044.218
Result (pCi/L, g, F):	4.580	#NUM!
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.069	#NUM!
Numerical Performance Indicator:	0.01	#NUM!
Percent Recovery:	100.11%	#NUM!
Status vs Numerical Indicator:	N/A	#NUM!
Status vs Recovery:	Pass	#NUM!
Upper % Recovery Limits:	135%	#NUM!
Lower % Recovery Limits:	60%	#NUM!

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.:	LCS77864	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD77864	
Sample Result (pCi/L, g, F):	4.580	
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.069	
Sample Duplicate Result (pCi/L, g, F):	#NUM!	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	#NUM!	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	#NUM!	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	#NUM!	
Duplicate Status vs Numerical Indicator:	#NUM!	
Duplicate Status vs RPD:	#NUM!	
% RPD Limit:	#NUM!	

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:

#NUM!
#NUM!

VAL
3/12/24

Ok 3/14/24
RE LCSD - pellet lost

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	ZPC
Date:	3/6/2024
Worklist:	77912
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3175611
MB concentration:	0.173
M/B 2 Sigma CSU:	0.373
MB MDC:	0.826
MB Numerical Performance Indicator:	0.91
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS77912	LCSD77912
Count Date:	3/12/2024	3/12/2024
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	37.530	37.530
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.817	0.816
Target Conc. (pCi/L, g, F):	4.596	4.601
Uncertainty (Calculated):	0.225	0.225
Result (pCi/L, g, F):	3.126	3.675
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.801	0.884
Numerical Performance Indicator:	-3.46	-1.99
Percent Recovery:	68.02%	79.86%
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.:	LCS77912	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD77912	
Sample Result (pCi/L, g, F):	3.126	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.801	
Sample Duplicate Result (pCi/L, g, F):	3.675	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.884	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-0.902	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	16.01%	
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:

VAL
3/13/24

VAM 3/15/24

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test:	Ra-228
Analyst:	ZPC
Date:	3/7/2024
Worklist:	77962
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3178917
MB concentration:	-0.056
M/B 2 Sigma CSU:	0.345
MB MDC:	0.817
MB Numerical Performance Indicator:	-0.32
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS77962	LCSD77962
Count Date:	3/13/2024	3/13/2024
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	37.516	37.516
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.821	0.818
Target Conc. (pCi/L, g, F):	4.571	4.585
Uncertainty (Calculated):	0.224	0.225
Result (pCi/L, g, F):	4.202	4.563
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.972	1.038
Numerical Performance Indicator:	-0.72	-0.04
Percent Recovery:	91.93%	99.53%
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.:	LCS77962	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD77962	
Sample Result (pCi/L, g, F):	4.202	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.972	
Sample Duplicate Result (pCi/L, g, F):	4.563	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.038	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-0.497	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	7.94%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

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

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

Comments:

3/14/24

VAL
3/15/24

Quality Control Sample Performance Assessment

Pace Analytical™
www.pacelabs.com

Test: Ra-226
Analyst: SLC
Date: 3/11/2024
Worklist: 77884
Matrix: DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3174171
MB concentration:	0.048
M/B Counting Uncertainty:	0.125
MB MDC:	0.300
MB Numerical Performance Indicator:	0.76
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS77884	LCSD77884
Count Date:	3/15/2024	3/15/2024
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.025	25.025
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.505	0.509
Target Conc. (pCi/L, g, F):	4.955	4.918
Uncertainty (Calculated):	0.233	0.231
Result (pCi/L, g, F):	4.775	4.643
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.580	0.596
Numerical Performance Indicator:	-0.56	-0.84
Percent Recovery:	96.37%	94.40%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
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 Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
MS Numerical Performance Indicator:		
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.:	LCS77884	92715057008
Duplicate Sample I.D.	LCSD77884	92715057008DUP
Sample Result (pCi/L, g, F):	4.775	0.164
Sample Result Counting Uncertainty (pCi/L, g, F):	0.580	0.143
Sample Duplicate Result (pCi/L, g, F):	4.643	0.180
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.596	0.162
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	0.312	-0.152
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	2.07%	9.74%
Duplicate Status vs Numerical Indicator:	N/A	N/A
Duplicate Status vs RPD:	Pass	Pass
% 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 Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

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

Comments:

ET 3-18-24

VAM 3/18/24

Quality Control Sample Performance Assessment

Pace Analytical™
www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	3/12/2024
Worklist:	77994
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3180680
MB concentration:	-0.053
M/B 2 Sigma CSU:	0.080
MB MDC:	0.258
MB Numerical Performance Indicator:	-1.31
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS77994	LCSD77994
Count Date:	3/18/2024	3/18/2024
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.025	25.025
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.509	0.506
Target Conc. (pCi/L, g, F):	4.913	4.945
Uncertainty (Calculated):	0.231	0.232
Result (pCi/L, g, F):	4.894	5.111
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.898	0.955
Numerical Performance Indicator:	-0.04	0.33
Percent Recovery:	99.62%	103.35%
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.:	LCS77994	92714724027
Duplicate Sample I.D.	LCSD77994	92714724027DUP
Sample Result (pCi/L, g, F):	4.894	0.021
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.898	0.077
Sample Duplicate Result (pCi/L, g, F):	5.111	0.020
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.955	0.073
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	-0.324	0.006
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	3.68%	1.57%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	N/A	N/A
% RPD Limit:	25%	25%

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

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

Comments:

CT 3-18-24

LAM 3/18/24

Upgradient

Georgia Power Co. – Plant Yates

Data Review Report

Metals, General Chemistry, and Radium Analyses

SDGs #92714723 and 92714724

Analyses Performed By:
Pace Analytical Services – Asheville, North Carolina
Pace Analytical Services – Peachtree Corners, Georgia
Pace Analytical Services – Greensburg, Pennsylvania

Report #53645R
Review Level: Tier II
Project: 30143607.3C

Summary

This Data Review Report summarizes the review of Sample Delivery Groups (SDGs) #92714723 and 92714724 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-47	92714723001 92714724001	Water	2/20/2024		X	X	X
YAT-GWA-2	92714723002 92714724002	Water	2/20/2024		X	X	X
YAT-YGWA-4I	92714723003 92714724003	Water	2/20/2024		X	X	X
YAT-YGWA-5I	92714723004 92714724004	Water	2/20/2024		X	X	X
YAT-YGWA-5D	92714723005 92714724005	Water	2/20/2024		X	X	X
YAT-YGWA-20S	92714723006 92714724006	Water	2/20/2024		X	X	X
YAT-YGWA-21I	92714723007 92714724007	Water	2/20/2024		X	X	X
YAT-YGWA-17S	92714723008 92714724008	Water	2/20/2024		X	X	X
YAT-YGWA-18I	92714723010 92714724010	Water	2/20/2024		X	X	X
YAT-UGRD-EB-1	92714723011 92714724011	Water	2/20/2024		X	X	X
YAT-UGRD-FB-1	92714723012 92714724012	Water	2/20/2024		X	X	X
YAT-UGRD-EB-2	92714723013 92714724013	Water	2/20/2024		X	X	X

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					RAD	MET	GEN CHEM
YAT-UGRD-FB-2	92714723014 92714724014	Water	2/20/2024		X	X	X
YAT-YGWA-30I	92714723015 92714724015	Water	2/20/2024		X	X	X
YAT-YGWA-3I	92714723016 92714724016	Water	2/20/2024		X	X	X
YAT-YGWA-3D	92714723017 92714724017	Water	2/20/2024		X	X	X
YAT-YGWA-39	92714723019 92714724019	Water	2/20/2024		X	X	X
YAT-YGWA-40	92714723020 92714724020	Water	2/20/2024		X	X	X
YAT-YGWA-1I	92714723021 92714724021	Water	2/20/2024		X	X	X
YAT-YGWA-1D	92714723022 92714724022	Water	2/20/2024		X	X	X
YAT-YGWA-2I	92714723023 92714724023	Water	2/20/2024		X	X	X
YAT-YGWA-14S	92714723024 92714724024	Water	2/23/2024		X	X	X
YAT-YGWA-18S	92714723025 92714724025	Water	2/23/2024		X	X	X
YAT-UGRD-FD-1	92714723026 92714724026	Water	2/23/2024	YAT-YGWA-14S	X	X	X
YAT-UGRD-FD-2	92714723027 92714724027	Water	2/23/2024	YAT-YGWA-18S	X	X	X

Notes:

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

Analytical Data Package Documentation

The table below evaluates the data package completeness.

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

Note:
QA = quality assurance

Inorganic Analysis Introduction

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Methods 6010D, 6020B, 7470A, 9315, and 9320; Standard Methods (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 6010D/6020B	Water	180 days from collection to analysis	Cool to <6°C; preserved to a pH of less than 2 s.u.
SW-846 7470A	Water	28 days from collection to analysis	Cool to <6°C; preserved to a pH of less than 2 s.u.

Note:
s.u. = standard units

All samples were analyzed within the specified holding times.

2. Blank Contamination

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

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

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

Sample Locations	Analytes	Sample Result	Qualification
YAT-YGWA-18S YAT-UGRD-FD-1 YAT-UGRD-FD-2	Potassium (MB)	Detected sample results >RL and <BAL	“UB” at detected sample concentration

Notes:
MB Method blank
RL Reporting limit

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

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

3.1 MS/MSD Analysis

All metal analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS/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 performed using samples YAT-YGWA-17S, YAT-YGWA-1I, and YAT-YGWA-18S in association with SW-846 6010D analysis exhibited recoveries within the control limits. The concentration of sodium in the unspiked analysis of sample YAT-YGWA-18S was greater than four-times the spike concentration, hence, the SW-846 6010D MS/MSD sample result was not evaluated for this analyte.

The MS/MSD analysis performed using samples YAT-YGWA-47 and YAT-YGWA-1I in association with SW-846 6020B analysis exhibited recoveries within the control limits.

The MS/MSD analysis performed using sample YAT-GWA-2 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 6010D, 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-14S / YAT-UGRD-FD-1	Potassium	0.89	0.90 U	AC
	Calcium	1.6	1.6	
	Barium	0.0096	0.0093	
	Beryllium	0.00024 J	0.00024 J	
	Boron	0.037 J	0.027 J	

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
	Selenium	0.0010 J	0.0011 J	
	Magnesium	1.8	1.7	5.7%
	Sodium	10.1	10.4	2.9%
YAT-YGWA-18S / YAT-UGRD-FD-2	Calcium	0.84 J	0.87 J	AC
	Barium	0.013	0.013	
	Boron	0.018 J	0.012 J	
	Magnesium	1.0	1.0	0.0%
	Sodium	8.6	9.0	4.5%

Note:
AC = Acceptable

The differences in the results between the parent sample YAT-YGWA-14S 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 6010D/6020B/7470A	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP-AES) Inductively Coupled Plasma-Mass Spectrometry (ICP-MS) Atomic Absorption – Manual Cold Vapor (CV)					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method Blanks		X	X		
B. Equipment/Field Blanks	X				X
Laboratory Control Sample (LCS) %R		X		X	
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Laboratory Duplicate (RPD)	X				X
Field Duplicate (RPD)		X		X	

Notes:

%R Percent recovery

RPD Relative percent difference

General Chemistry Analyses

1. Holding Times

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

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

All samples were analyzed within the specified holding times.

2. Blank Contamination

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

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

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

Sample Locations	Analytes	Sample Result	Qualification
YAT-YGWA-47 YAT-GWA-2 YAT-YGWA-4I YAT-YGWA-5I YAT-YGWA-20S YAT-YGWA-21I YAT-YGWA-17S YAT-YGWA-18I YAT-YGWA-30I YAT-YGWA-3I YAT-YGWA-3D YAT-YGWA-39	TDS (EB)	Detected sample results >RL and <BAL	“J+” at detected sample concentration

Sample Locations	Analytes	Sample Result	Qualification
YAT-YGWA-40 YAT-YGWA-1I YAT-YGWA-1D YAT-YGWA-2I			

Notes:
EB Equipment blank
RL Reporting limit

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

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

3.1 MS/MSD Analysis

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

The MS/MSD analysis performed using samples YAT-YGWA-47, YAT-GWA-2, YAT-YGWA-40, and YAT-YGWA-1I in association with alkalinity analysis exhibited recoveries within the control limits.

The MS/MSD analysis performed using samples YAT-YGWA-5D, YAT-YGWA-30I, and YAT-YGWA-18S 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-GWA-2, YAT-UGRD-FB-1, and YAT-YGWA-1D in association with TDS analysis exhibited RPDs within the control limit with the exception presented in the following table.

Sample Location	Analytes	Lab Duplicate RPD
YAT-YGWA-1D	TDS	44%

The criteria used to evaluate laboratory duplicate RPD are presented in the following table. In the case of a laboratory duplicate RPD deviation, the sample results are qualified.

Sample Concentration	Control Limit	Sample Result	Qualification
Parent sample and laboratory duplicate sample concentration >5 times RL	20%	Non-detect	UJ
		Detect	J
Parent sample and/or laboratory duplicate sample result ≤ five times the RL and difference between samples >RL	One times RL	Non-detect	UJ
		Detect	J

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-14S / YAT-UGRD-FD-1	Alkalinity, Bicarbonate	14.4	14.6	AC
	Alkalinity, Total	14.4	14.6	
	TDS	64.0	73.0	
	Chloride	4.8	4.7	
	Fluoride	0.10 U	0.055 J	
	Sulfate	7.1	7.0	1.4%
YAT-YGWA-18S / YAT-UGRD-FD-2	Alkalinity, Bicarbonate	8.7	8.8	AC
	Alkalinity, Total	8.7	8.8	
	TDS	52.0	53.0	
	Sulfate	0.79 J	0.79 J	
	Chloride	6.6	6.7	1.5%

Note:
AC Acceptable

The differences in the results between the parent sample YAT-YGWA-14S 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: SM2540C, SM2320B, USEPA 300.0	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method Blanks		X		X	
B. Equipment/Field Blanks		X	X		
Laboratory Control Sample (LCS) %R		X		X	
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Laboratory Duplicate (RPD)		X	X		
Field Duplicate (RPD)		X		X	

Notes:

%R Percent recovery

RPD Relative percent difference

Radiological Analyses

1. Holding Times

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

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

Note:
s.u. = standard units

All samples were analyzed within the specified holding times.

2. Blank Contamination

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

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

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

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

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

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

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 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-UGRD-FD-2 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-14S / YAT-UGRD-FD-1	Radium-226	0.0389U ± 0.116	-0.00856U ± 0.0756	AC
	Radium-228	0.697U ± 0.457	-0.0242U ± 0.378	
	Total Radium	0.736U ± 0.573	0.000U ± 0.454	
YAT-YGWA-18S / YAT-UGRD-FD-2	Radium-226	0.0497U ± 0.0978	0.0205U ± 0.0772	AC
	Radium-228	0.268U ± 0.346	0.107U ± 0.449	
	Total Radium	0.318U ± 0.444	0.128U ± 0.526	

Note:
AC = Acceptable

The results were below the MDC in the parent sample YAT-YGWA-14S and field duplicate sample YAT-UGRD-FD-1.

The results were below the MDC in the parent sample YAT-YGWA-15S 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, 2024

PEER REVIEW: Dennis Capria

DATE: April 29, 2024

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

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92714723

Company Name:	Southern Company	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2024S1	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: Standard TAT

DW PWSID # or WW Permit # as applicable:

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

Analysis:

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

Specify Container Size **: 3 3 2 1 3

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

Analysis Requested

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	App I/II Metals	Sample Comment	Preservation non-conformance identified for sample
YAT-YGWA-47	WG	G	2/20/24	1030				6		X	X	X	X	X		See Remarks 001	
YAT-GWA-2	WG	G	2/20/24	1150				6		X	X	X	X	X	X	See Remarks 002	
YAT-YGWA-4I	WG	G						6		X	X	X	X	X		See Remarks	
YAT-YGWA-5I	WG	G						6		X	X	X	X	X		See Remarks	
YAT-YGWA-5D	WG	G						6		X	X	X	X	X		See Remarks	
YAT-YGWA-17S	WG	G						6		X	X	X	X	X		See Remarks	
YAT-YGWA-18S	WG	G						6		X	X	X	X	X		See Remarks	
YAT-YGWA-18I	WG	G						6		X	X	X	X	X		See Remarks	
YAT-YGWA-20S	WG	G						6		X	X	X	X	X		See Remarks	
YAT-YGWA-21I	WG	G						6		X	X	X	X	X		See Remarks	

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

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

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

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): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) Jake Swanson
Signature: (Arcadis)

Additional instructions from Pace®:

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

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
/Arcadis	2/20/24 / 1730	/Arcadis	2/20/24 / 1730	
/Arcadis	2/21/24 1220	Ryan Williams / Pace	2/21/24 1220	Delivered by: [ ] In Person [ ] Courier
Ryan Williams / Pace	2/21/24 1512		2/21/24 1512	[ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

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CHAIN-OF-CUSTODY Analytical Request Document

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Company Name:	Southern Company	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202451	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: STANDARD TAT

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)	App III Metals	Sample Comment	Preservation non-conformance identified for sample
YAT-YGWA-47	WG	G						6		X	X	X	X	X		See Remarks	
YAT-GWA-2	WG	G						6		X	X	X	X	X	X	See Remarks	
YAT-YGWA-4I	WG	G	2/20/24	1110	—	—		6		X	X	X	X	X		See Remarks 003	
YAT-YGWA-5I	WG	G	2/20/24	1218	—	—		6		X	X	X	X	X		See Remarks 004	
YAT-YGWA-5D	WG	G	2/20/24	1325	—	—		6		X	X	X	X	X		See Remarks 005	
YAT-YGWA-17S	WG	G						6		X	X	X	X	X		See Remarks	
YAT-YGWA-18S	WG	G						6		X	X	X	X	X		See Remarks	
YAT-YGWA-18I	WG	G						6		X	X	X	X	X		See Remarks	
YAT-YGWA-20S	WG	G	2/20/24	1440	—	—		6		X	X	X	X	X		See Remarks 006	
YAT-YGWA-21I	WG	G	2/20/24	1635	—	—		6		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): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

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

Additional Instructions from Pace®:

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

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
ARCADIS	2/21/24 0810	Arcadis	2/21/24 0810	
Arcadis	2/21/24 1220	Ryan Williams / Pace	2/21/24 1220	Delivered by: [ ] In- Person [ ] Courier
Ryan Williams / Pace	2/21/24 1512		2/21/24 1512	[ ] FedEx [ ] UPS [ ] Other
				Page: 1 of 2

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

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

CHAIN-OF-CUSTODY Analytical Request Document

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Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2024S1	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT Pooled Upgradient	Purchase Order # (if applicable):	GPCS2474-0002
		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: Standard TAT

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)	App I/II Metals	Sample Comment	Preservation non conformance identified for sample
Specify Container Size **										3	3	2	1	3			
Identify Container Preservative Type***										2	1	1	2	1			
Analysis Requested																	
YAT-YGWA-47	WG	G						6		X	X	X	X	X		See Remarks	
YAT-GWA-2	WG	G						6		X	X	X	X	X	X	See Remarks	
YAT-YGWA-4I	WG	G						6		X	X	X	X	X		See Remarks	
YAT-YGWA-5I	WG	G						6		X	X	X	X	X		See Remarks	
YAT-YGWA-5D	WG	G						6		X	X	X	X	X		See Remarks	
YAT-YGWA-17S	WG	G	2/20/24	1037				6		X	X	X	X	X		See Remarks 008	
YAT-YGWA-18S	WG	G	2/20/24	1152				6		X	X	X	X	X		See Remarks 009	
YAT-YGWA-18I	WG	G	2/20/24	1248				6		X	X	X	X	X		See Remarks 010	
YAT-YGWA-20S	WG	G						6		X	X	X	X	X		See Remarks	
YAT-YGWA-21I	WG	G						6		X	X	X	X	X		See Remarks	

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

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

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

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): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

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

Additional Instructions from Pace®:

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

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Jessica Ware / Arcadis	2/21/24 0725	[illegible] / Arcadis	2/21/24 0725	
[illegible] / Arcadis	2/21/24 1220	Ryan Williams / Pace	2/21/24 1226	Delivered by: [ ] In-Person [ ] Courier
Ryan Williams / Pace	2/21/24 1512	[illegible]	2/21/24 1512	[ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 1 of 3

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

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Company Name:	Southern Company	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202451	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: GPC Standard

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), Coulk

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	2/20/24	1715	-	-	-	6		X	X	X	X	X	See Remarks 011
YAT-UGRD-FB-1	WG	G	2/20/24	1535	-	-	-	6		X	X	X	X	X	See Remarks 012
YAT-UGRD-EB-2	WG	G						6		X	X	X	X	X	See Remarks
YAT-UGRD-FB-2	WG	G						6		X	X	X	X	X	See Remarks
YAT-UGRD-FD-1	WG	G						6		X	X	X	X	X	See Remarks
YAT-UGRD-FD-2	WG	G						6		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): Ca, Na, K, Mg: For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) · Mark Chest
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:
Mark Chest / Arcadis	2/21/24 1220	Lyan Williams / Pace	2/21/24 1220	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In-Person [ ] Courier
Lyan Williams / Pace	2/21/24 1512		2/21/24 1512	[ ] 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: 2 of 2

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

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Company Name:	Southern Company	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2024S1	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: Standard

DW PWSID # or WW Permit # as applicable:

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

Analysis:

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

Specify Container Size **: 3 3 2 1 3

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

Analysis Requested

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers: Plastic	Number & Type of Containers: Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment	Preservation non-conformance identified for sample
YAT-UGRD-EB-1	WG	G						6		X	X	X	X	X	See Remarks	
YAT-UGRD-FB-1	WG	G						6		X	X	X	X	X	See Remarks	
YAT-UGRD-EB-2	WG	G	2/20/24	1555				6		X	X	X	X	X	See Remarks 013	
YAT-UGRD-FB-2	WG	G						6		X	X	X	X	X	See Remarks	
YAT-UGRD-FD-1	WG	G						6		X	X	X	X	X	See Remarks	
YAT-UGRD-FD-2	WG	G						6		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:

**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): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

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

Additional Instructions from Pace®:

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

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Jessica Ware / Arcadis	2/21/24 0725			
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Michael / Arcadis	2/21/24 1220	Ryan Williams / Pace	2/21/24 1220	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Ryan Williams / Pace	2/21/24 1512	See	2/21/24 1512	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 3 of 3

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

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Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2024S1	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: STANDARD TAT

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						6		X	X	X	X	X	See Remarks	
YAT-UGRD-FB-1	WG	G						6		X	X	X	X	X	See Remarks	
YAT-UGRD-EB-2	WG	G						6		X	X	X	X	X	See Remarks	
YAT-UGRD-FB-2	WG	G	2/20/24	1700	—	—		6		X	X	X	X	X	See Remarks 014	
YAT-UGRD-FD-1	WG	G						6		X	X	X	X	X	See Remarks	
YAT-UGRD-FD-2	WG	G						6		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): Ca, 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	Tracking Number:
ARCADIS	2/21/24 0810	Arcadis	2/21/24 0810	
Arcadis	2/21/24 1220	Ryan Williams / Pace	2/21/24 1220	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Ryan Williams / Pace	2/21/24 1512		2/21/24 1512	
Relinquished by/Company: (Signature)	Date/Time	Received by/Company: (Signature)	Date/Time:	Page: 2 of 2

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

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Company Name:	Southern Company	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202451	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: Standard

DW PWSID # or WW Permit # as applicable:

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

Analysis:

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

Specify Container Size **: 3 3 2 1 3

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

Analysis Requested

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

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

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

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment	Preservation non-conformance identified for sample
YAT-YGWA-30I	WG	G	2/20/24	1625				6		X	X	X	X	X	See Remarks 015	
YAT-YGWA-14S	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-39	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-40	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-1I	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-1D	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-2I	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-3I	WG	G	2/20/24	1350				6		X	X	X	X	X	See Remarks 016	
YAT-YGWA-3D	WG	G	2/20/24	1135				6		X	X	X	X	X	See Remarks 017	
			~~2/20/24~~	~~1135~~												

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): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

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

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	2/21/24 0810	Arcadis	2/21/24 0810
Arcadis	2/21/24 1220	Pace	2/21/24 1220
Pace	2/21/24 1512		2/21/24

Tracking Number:

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

Page: 1 of 1

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

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:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2024S1	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: Standard

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

**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						6		X	X	X	X	X	See Remarks	
YAT-YGWA-14S	WG	G	2/20/24	1701				6		X	X	X	X	X	See Remarks 018	
YAT-YGWA-39	WG	G	2/20/24	1358				6		X	X	X	X	X	See Remarks 019	
YAT-YGWA-40	WG	G	2/20/24	1510				6		X	X	X	X	X	See Remarks 020	
YAT-YGWA-1I	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-1D	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-2I	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-3I	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-3D	WG	G						6		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): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

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

Additional Instructions from Pace®:

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

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Jessica Ware / Arcadis	2/21/24 0725	Arcadis	2/21/24 0725	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In-Person [ ] Courier
Arcadis	2/21/24 1220	Ryan Williams / Pace	2/21/24 1220	[ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Ryan Williams / Pace	2/21/24 1512		2/21/24 1512	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 2 of 3

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:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202451	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: Std Standard

DW PWSID # or WW Permit # as applicable:

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

Analysis:

Specify Container Size **: 3 3 2 1 3

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

Analysis Requested

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

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

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

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), 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						6		X	X	X	X	X	See Remarks	
YAT-YGWA-14S	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-39	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-40	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-1I	WG	G	2/20/24	1202	—	—	—	6		X	X	X	X	X	See Remarks 021	
YAT-YGWA-1D	WG	G	2/20/24	1324	—	—	—	6		X	X	X	X	X	See Remarks 022	
YAT-YGWA-2I	WG	G	2/20/24	1602	—	—	—	6		X	X	X	X	X	See Remarks 023	
YAT-YGWA-3I	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-3D	WG	G						6		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): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) Mark Chest
Signature: (Arcadis)

Additional Instructions from Pace®:

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

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Arcadis	2/21/24 1220	Ryan Williams / Pace	2/21/24 1220	
Ryan Williams / Pace	2/21/24 1512		2/21/24 1512	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: 1 of 2

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

CHAIN-OF-CUSTODY Analytical Request Document

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Scan QR Code for instructions

92714723

Company Name:	Southern Company	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2024S1	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: Standard TAT

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	Preservation non-conformance identified for sample.
Specify Container Size **										3	3	2	1	3		
Identify Container Preservative Type***										2	1	1	2	1		
Analysis Requested																
YAT-YGWA-30I	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-14S	WG	G	2/23/24	1100				6		X	X	X	X	X	See Remarks 024	
YAT-YGWA-39	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-40	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-1I	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-1D	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-2I	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-3I	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-3D	WG	G						6		X	X	X	X	X	See Remarks	

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

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

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

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): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

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

Additional Instructions from Pace®:

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

Relinquished by/Company: (Signature)	Date/Time: 2/23/24 1230	Received by/Company: (Signature) Jessica Dow / Arcadis	Date/Time: 2/23/24 1230	Tracking Number:
Relinquished by/Company: (Signature)	Date/Time: 2/22/24 1133	Received by/Company: (Signature) MTW	Date/Time: 2/24/24 1133	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: 1 of 1

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

CHAIN-OF-CUSTODY Analytical Request Document

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LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202451	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: Standard TAT

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

**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)	App I/II Metals	Sample Comment	Preservation non-conformance identified for sample.
YAT-YGWA-47	WG	G						6		X	X	X	X	X		See Remarks	
YAT-GWA-2	WG	G						6		X	X	X	X	X	X	See Remarks	
YAT-YGWA-4I	WG	G						6		X	X	X	X	X		See Remarks	
YAT-YGWA-5I	WG	G						6		X	X	X	X	X		See Remarks	
YAT-YGWA-5D	WG	G						6		X	X	X	X	X		See Remarks	
YAT-YGWA-17S	WG	G						6		X	X	X	X	X		See Remarks	
YAT-YGWA-18S	WG	G	2/23/24	0925				6		X	X	X	X	X		See Remarks 025	
YAT-YGWA-18I	WG	G						6		X	X	X	X	X		See Remarks	
YAT-YGWA-20S	WG	G						6		X	X	X	X	X		See Remarks	
YAT-YGWA-21I	WG	G						6		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): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

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

Additional Instructions from Pace®:

Cooler: 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:
[signature]	2/23/24 1230	[signature] Arcadis	2/23/24 1230	
[signature] Arcadis	2/24/24 1133	[signature] MAW	2/24/24 1133	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/

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

CHAIN-OF-CUSTODY Analytical Request Document

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LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Passed Upgradient		Purchase Order # (if applicable):	GPC32474-0002
		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, NCAA, etc.) as applicable:

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

Date Results Requested: Standard TAT

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), Cauli

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) MeOH, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) NaOH, (11) Other

Container 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						6		X	X	X	X	X	See Remarks
YAT-UGRD-FB-1	WG	G						6		X	X	X	X	X	See Remarks
YAT-UGRD-EB-2	WG	G						6		X	X	X	X	X	See Remarks
YAT-UGRD-FB-2	WG	G	2/23/24					6		X	X	X	X	X	See Remarks
YAT-UGRD-FD-1	WG	G	2/23/24					6		X	X	X	X	X	See Remarks 0526
YAT-UGRD-FD-2	WG	G	2/23/24					6		X	X	X	X	X	See Remarks 0527

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

Preservation non-conformance identified for samples

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): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:

Printed Name: (Arcadis)

Signature: (Arcadis)

Additional Instructions from Pace®:

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

	Date/Time	Received by/Company: (Signature)	Date/Time	Tracking Number:
Relinquished by/Company: (Signature)	2/23/24 1250	Received by/Company: (Signature) Arcadis	2/23/24 1230	
Relinquished by/Company: (Signature)	2/24/24 1133	Received by/Company: (Signature)	2/24/24 1133	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: 1 of 1

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORO-0019_v01_082123 ©

SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier	Reason for Validation Qualifier
92714723	YAT-YGWA-47	SM2540D	Total Dissolved Solids	159	mg/L	J+	Blank contamination
	YAT-GWA-2	SM2540D	Total Dissolved Solids	214	mg/L	J+	Blank contamination
	YAT-YGWA-4I	SM2540D	Total Dissolved Solids	140	mg/L	J+	Blank contamination
	YAT-YGWA-5I	SM2540D	Total Dissolved Solids	137	mg/L	J+	Blank contamination
	YAT-YGWA-20S	SM2540D	Total Dissolved Solids	164	mg/L	J+	Blank contamination
	YAT-YGWA-21I	SM2540D	Total Dissolved Solids	156	mg/L	J+	Blank contamination
	YAT-YGWA-17S	SM2540D	Total Dissolved Solids	77.0	mg/L	J+	Blank contamination
	YAT-YGWA-18I	SM2540D	Total Dissolved Solids	129	mg/L	J+	Blank contamination
	YAT-YGWA-30I	SM2540D	Total Dissolved Solids	55.0	mg/L	J+	Blank contamination
	YAT-YGWA-3I	SM2540D	Total Dissolved Solids	220	mg/L	J+	Blank contamination
	YAT-YGWA-3D	SM2540D	Total Dissolved Solids	294	mg/L	J+	Blank contamination
	YAT-YGWA-39	SM2540D	Total Dissolved Solids	233	mg/L	J+	Blank contamination
	YAT-YGWA-40	SM2540D	Total Dissolved Solids	109	mg/L	J+	Blank contamination
	YAT-YGWA-1I	SM2540D	Total Dissolved Solids	59.0	mg/L	J+	Blank contamination
	YAT-YGWA-1D	SM2540D	Total Dissolved Solids	130	mg/L	J	Blank contamination, Lab duplicate RPD
	YAT-YGWA-2I	SM2540D	Total Dissolved Solids	159	mg/L	J+	Blank contamination
	YAT-YGWA-18S	SW846 6010D	Potassium	0.62	mg/L	UB	Blank contamination
	YAT-UGRD-FD-1	SW846 6010D	Potassium	0.90	mg/L	UB	Blank contamination
	YAT-UGRD-FD-2	SW846 6010D	Potassium	0.63	mg/L	UB	Blank contamination
92714724	No qualifiers assigned						

Abbreviations:

mg/L = milligram per liter

Qualifiers:

J = estimated result
J+ = estimated result with possible high bias
UB = not detected

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

March 11, 2024

Lauren Hartley
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Dear Lauren Hartley:

Enclosed are the analytical results for sample(s) received by the laboratory between February 21, 2024 and February 24, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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
Becky Steever, Arcadis
Jessica Ware, Arcadis
Albert Zumbuhl, Arcadis

Pace Analytical Services, LLC
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CERTIFICATIONS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

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

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92714723001	**YAT-YGWA-47**	Water	02/20/24 10:30	02/21/24 15:12
92714723002	**YAT-GWA-2**	Water	02/20/24 11:50	02/21/24 15:12
92714723003	**YAT-YGWA-4I**	Water	02/20/24 11:10	02/21/24 15:12
92714723004	**YAT-YGWA-5I**	Water	02/20/24 12:18	02/21/24 15:12
92714723005	**YAT-YGWA-5D**	Water	02/20/24 13:25	02/21/24 15:12
92714723006	**YAT-YGWA-20S**	Water	02/20/24 14:40	02/21/24 15:12
92714723007	**YAT-YGWA-21I**	Water	02/20/24 16:38	02/21/24 15:12
92714723008	**YAT-YGWA-17S**	Water	02/20/24 10:37	02/21/24 15:12
92714723010	**YAT-YGWA-18I**	Water	02/20/24 12:48	02/21/24 15:12
92714723011	**YAT-UGRD-EB-1**	Water	02/20/24 17:15	02/21/24 15:12
92714723012	**YAT-UGRD-FB-1**	Water	02/20/24 15:35	02/21/24 15:12
92714723013	**YAT-UGRD-EB-2**	Water	02/20/24 15:55	02/21/24 15:12
92714723014	**YAT-UGRD-FB-2**	Water	02/20/24 17:00	02/21/24 15:12
92714723015	**YAT-YGWA-30I**	Water	02/20/24 16:25	02/21/24 15:12
92714723016	**YAT-YGWA-3I**	Water	02/20/24 13:50	02/21/24 15:12
92714723017	**YAT-YGWA-3D**	Water	02/20/24 11:35	02/21/24 15:12
92714723019	**YAT-YGWA-39**	Water	02/20/24 13:58	02/21/24 15:12
92714723020	**YAT-YGWA-40**	Water	02/20/24 15:10	02/21/24 15:12
92714723021	**YAT-YGWA-1I**	Water	02/20/24 12:02	02/21/24 15:12
92714723022	**YAT-YGWA-1D**	Water	02/20/24 13:24	02/21/24 15:12
92714723023	**YAT-YGWA-2I**	Water	02/20/24 16:02	02/21/24 15:12
92714723024	**YAT-YGWA-14S**	Water	02/23/24 11:00	02/24/24 11:33
92714723025	**YAT-YGWA-18S**	Water	02/23/24 09:25	02/24/24 11:33
92714723026	**YAT-UGRD-FD-1**	Water	02/23/24 00:00	02/24/24 11:33
92714723027	**YAT-UGRD-FD-2**	Water	02/23/24 00:00	02/24/24 11:33

REPORT OF LABORATORY ANALYSIS

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.: 92714723

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92714723001	**YAT-YGWA-47**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92714723002	**YAT-GWA-2**	EPA 6010D	DRB	4
		EPA 6020B	CW1	18
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92714723003	**YAT-YGWA-4I**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92714723004	**YAT-YGWA-5I**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92714723005	**YAT-YGWA-5D**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92714723006	**YAT-YGWA-20S**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92714723007	**YAT-YGWA-21I**	EPA 6010D	DRB	4

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SAMPLE ANALYTE COUNT

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92714723008	**YAT-YGWA-17S**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92714723010	**YAT-YGWA-18I**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92714723011	**YAT-UGRD-EB-1**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92714723012	**YAT-UGRD-FB-1**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92714723013	**YAT-UGRD-EB-2**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92714723014	**YAT-UGRD-FB-2**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13

REPORT OF LABORATORY ANALYSIS

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.: 92714723

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92714723015	**YAT-YGWA-30I**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92714723016	**YAT-YGWA-3I**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92714723017	**YAT-YGWA-3D**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92714723019	**YAT-YGWA-39**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92714723020	**YAT-YGWA-40**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92714723021	**YAT-YGWA-1I**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(704)875-9092

SAMPLE ANALYTE COUNT

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92714723022	**YAT-YGWA-1D**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92714723023	**YAT-YGWA-2I**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92714723024	**YAT-YGWA-14S**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JMH1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92714723025	**YAT-YGWA-18S**	EPA 6010D	AJM, DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JMH1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92714723026	**YAT-UGRD-FD-1**	EPA 6010D	AJM, DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JMH1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92714723027	**YAT-UGRD-FD-2**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3

REPORT OF LABORATORY ANALYSIS

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.: 92714723

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		SM 2540C-2015	JMH1	1
		EPA 300.0 Rev 2.1 1993	CDC	3

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

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.: 92714723

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92714723001	**YAT-YGWA-47**					
EPA 6010D	Potassium	4.1	mg/L	0.50	03/01/24 19:41	
EPA 6010D	Sodium	12.3	mg/L	1.0	03/01/24 19:41	
EPA 6010D	Calcium	10.3	mg/L	1.0	03/01/24 19:41	
EPA 6010D	Magnesium	10.9	mg/L	0.050	03/01/24 19:41	
EPA 6020B	Barium	0.031	mg/L	0.0050	03/01/24 15:53	
EPA 6020B	Boron	0.023J	mg/L	0.040	03/01/24 15:53	
EPA 6020B	Cobalt	0.0011J	mg/L	0.0050	03/01/24 15:53	
EPA 6020B	Lithium	0.0036J	mg/L	0.030	03/01/24 15:53	
SM 2540C-2015	Total Dissolved Solids	159	mg/L	25.0	02/26/24 14:45	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	36.4	mg/L	5.0	02/23/24 17:28	
SM 2320B-2011	Alkalinity, Total as CaCO3	36.4	mg/L	5.0	02/23/24 17:28	
EPA 300.0 Rev 2.1 1993	Chloride	3.2	mg/L	1.0	02/23/24 15:14	
EPA 300.0 Rev 2.1 1993	Fluoride	0.073J	mg/L	0.10	02/23/24 15:14	
EPA 300.0 Rev 2.1 1993	Sulfate	51.0	mg/L	1.0	02/23/24 15:14	
92714723002	**YAT-GWA-2**					
EPA 6010D	Potassium	9.9	mg/L	0.50	03/01/24 19:46	
EPA 6010D	Sodium	8.2	mg/L	1.0	03/01/24 19:46	
EPA 6010D	Calcium	22.8	mg/L	1.0	03/01/24 19:46	
EPA 6010D	Magnesium	19.8	mg/L	0.050	03/01/24 19:46	
EPA 6020B	Antimony	0.0026J	mg/L	0.0030	03/01/24 16:10	
EPA 6020B	Arsenic	0.0015J	mg/L	0.0050	03/01/24 16:10	
EPA 6020B	Barium	0.035	mg/L	0.0050	03/01/24 16:10	
EPA 6020B	Boron	0.017J	mg/L	0.040	03/01/24 16:10	
EPA 6020B	Cobalt	0.023	mg/L	0.0050	03/01/24 16:10	
EPA 6020B	Copper	0.00067J	mg/L	0.0050	03/01/24 16:10	
EPA 6020B	Lithium	0.0024J	mg/L	0.030	03/01/24 16:10	
EPA 6020B	Nickel	0.010	mg/L	0.0050	03/01/24 16:10	
EPA 6020B	Zinc	0.0058J	mg/L	0.010	03/01/24 16:10	
SM 2540C-2015	Total Dissolved Solids	214	mg/L	25.0	02/26/24 15:45	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	73.5	mg/L	5.0	02/23/24 17:47	
SM 2320B-2011	Alkalinity, Total as CaCO3	73.5	mg/L	5.0	02/23/24 17:47	
EPA 300.0 Rev 2.1 1993	Chloride	6.1	mg/L	1.0	02/23/24 15:29	
EPA 300.0 Rev 2.1 1993	Fluoride	0.094J	mg/L	0.10	02/23/24 15:29	
EPA 300.0 Rev 2.1 1993	Sulfate	75.0	mg/L	1.0	02/23/24 15:29	
92714723003	**YAT-YGWA-4I**					
EPA 6010D	Potassium	4.0	mg/L	0.50	03/01/24 19:49	
EPA 6010D	Sodium	10.1	mg/L	1.0	03/01/24 19:49	
EPA 6010D	Calcium	9.9	mg/L	1.0	03/01/24 19:49	
EPA 6010D	Magnesium	5.5	mg/L	0.050	03/01/24 19:49	
EPA 6020B	Antimony	0.00061J	mg/L	0.0030	03/01/24 16:14	
EPA 6020B	Barium	0.014	mg/L	0.0050	03/01/24 16:14	
EPA 6020B	Lithium	0.014J	mg/L	0.030	03/01/24 16:14	
SM 2540C-2015	Total Dissolved Solids	140	mg/L	25.0	02/26/24 15:45	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	56.0	mg/L	5.0	02/23/24 18:50	
SM 2320B-2011	Alkalinity, Total as CaCO3	56.0	mg/L	5.0	02/23/24 18:50	
EPA 300.0 Rev 2.1 1993	Chloride	4.6	mg/L	1.0	02/23/24 15:44	

REPORT OF LABORATORY ANALYSIS

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.: 92714723

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92714723003	**YAT-YGWA-4I**					
EPA 300.0 Rev 2.1 1993	Fluoride	0.059J	mg/L	0.10	02/23/24 15:44	
EPA 300.0 Rev 2.1 1993	Sulfate	8.5	mg/L	1.0	02/23/24 15:44	
92714723004	**YAT-YGWA-5I**					
EPA 6010D	Potassium	1.5	mg/L	0.50	03/01/24 19:57	
EPA 6010D	Sodium	10.5	mg/L	1.0	03/01/24 19:57	
EPA 6010D	Calcium	2.7	mg/L	1.0	03/01/24 19:57	
EPA 6010D	Magnesium	2.7	mg/L	0.050	03/01/24 19:57	
EPA 6020B	Barium	0.019	mg/L	0.0050	03/01/24 16:18	
EPA 6020B	Lithium	0.0033J	mg/L	0.030	03/01/24 16:18	
SM 2540C-2015	Total Dissolved Solids	137	mg/L	25.0	02/26/24 15:45	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	25.3	mg/L	5.0	02/23/24 18:58	
SM 2320B-2011	Alkalinity, Total as CaCO3	25.3	mg/L	5.0	02/23/24 18:58	
EPA 300.0 Rev 2.1 1993	Chloride	4.8	mg/L	1.0	02/23/24 15:59	
EPA 300.0 Rev 2.1 1993	Sulfate	2.5	mg/L	1.0	02/23/24 15:59	
92714723005	**YAT-YGWA-5D**					
EPA 6010D	Potassium	3.5	mg/L	0.50	03/01/24 20:00	
EPA 6010D	Sodium	9.5	mg/L	1.0	03/01/24 20:00	
EPA 6010D	Calcium	27.2	mg/L	1.0	03/01/24 20:00	
EPA 6010D	Magnesium	4.5	mg/L	0.050	03/01/24 20:00	
EPA 6020B	Arsenic	0.0030J	mg/L	0.0050	03/01/24 16:22	
EPA 6020B	Barium	0.0078	mg/L	0.0050	03/01/24 16:22	
EPA 6020B	Lithium	0.0056J	mg/L	0.030	03/01/24 16:22	
EPA 6020B	Molybdenum	0.0010J	mg/L	0.010	03/01/24 16:22	
SM 2540C-2015	Total Dissolved Solids	639	mg/L	25.0	02/26/24 15:46	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	103	mg/L	5.0	02/23/24 19:04	
SM 2320B-2011	Alkalinity, Total as CaCO3	103	mg/L	5.0	02/23/24 19:04	
EPA 300.0 Rev 2.1 1993	Chloride	3.2	mg/L	1.0	02/23/24 16:14	
EPA 300.0 Rev 2.1 1993	Fluoride	0.076J	mg/L	0.10	02/23/24 16:14	
EPA 300.0 Rev 2.1 1993	Sulfate	5.1	mg/L	1.0	02/23/24 16:14	
92714723006	**YAT-YGWA-20S**					
EPA 6010D	Potassium	0.51	mg/L	0.50	03/01/24 20:02	
EPA 6010D	Sodium	9.2	mg/L	1.0	03/01/24 20:02	
EPA 6010D	Calcium	2.5	mg/L	1.0	03/01/24 20:02	
EPA 6010D	Magnesium	0.59	mg/L	0.050	03/01/24 20:02	
EPA 6020B	Barium	0.013	mg/L	0.0050	03/01/24 16:40	
SM 2540C-2015	Total Dissolved Solids	164	mg/L	25.0	02/26/24 15:46	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	24.6	mg/L	5.0	02/23/24 19:13	
SM 2320B-2011	Alkalinity, Total as CaCO3	24.6	mg/L	5.0	02/23/24 19:13	
EPA 300.0 Rev 2.1 1993	Chloride	2.9	mg/L	1.0	02/23/24 17:28	
92714723007	**YAT-YGWA-21I**					
EPA 6010D	Potassium	3.1	mg/L	0.50	03/01/24 20:05	
EPA 6010D	Sodium	18.6	mg/L	1.0	03/01/24 20:05	
EPA 6010D	Calcium	7.0	mg/L	1.0	03/01/24 20:05	
EPA 6010D	Magnesium	3.6	mg/L	0.050	03/01/24 20:05	
EPA 6020B	Antimony	0.0013J	mg/L	0.0030	03/01/24 16:44	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92714723007	**YAT-YGWA-21I**					
EPA 6020B	Barium	0.0065	mg/L	0.0050	03/01/24 16:44	
EPA 6020B	Cobalt	0.020	mg/L	0.0050	03/01/24 16:44	
EPA 6020B	Lithium	0.0062J	mg/L	0.030	03/01/24 16:44	
SM 2540C-2015	Total Dissolved Solids	156	mg/L	25.0	02/26/24 15:46	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	70.9	mg/L	5.0	02/23/24 19:19	
SM 2320B-2011	Alkalinity, Total as CaCO3	70.9	mg/L	5.0	02/23/24 19:19	
EPA 300.0 Rev 2.1 1993	Chloride	2.3	mg/L	1.0	02/23/24 17:43	
EPA 300.0 Rev 2.1 1993	Fluoride	0.083J	mg/L	0.10	02/23/24 17:43	
EPA 300.0 Rev 2.1 1993	Sulfate	3.8	mg/L	1.0	02/23/24 17:43	
92714723008	**YAT-YGWA-17S**					
EPA 6010D	Potassium	0.36J	mg/L	0.50	03/02/24 10:05	
EPA 6010D	Sodium	15.0	mg/L	1.0	03/02/24 10:05	
EPA 6010D	Calcium	3.2	mg/L	1.0	03/02/24 10:05	
EPA 6010D	Magnesium	1.1	mg/L	0.050	03/02/24 10:05	
EPA 6020B	Barium	0.017	mg/L	0.0050	03/01/24 16:48	
EPA 6020B	Beryllium	0.00010J	mg/L	0.00050	03/01/24 16:48	
SM 2540C-2015	Total Dissolved Solids	77.0	mg/L	25.0	02/26/24 15:46	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	14.5	mg/L	5.0	02/23/24 19:27	
SM 2320B-2011	Alkalinity, Total as CaCO3	14.5	mg/L	5.0	02/23/24 19:27	
EPA 300.0 Rev 2.1 1993	Chloride	12.2	mg/L	1.0	02/23/24 17:58	
EPA 300.0 Rev 2.1 1993	Sulfate	4.6	mg/L	1.0	02/23/24 17:58	
92714723010	**YAT-YGWA-18I**					
EPA 6010D	Potassium	0.95	mg/L	0.50	03/02/24 10:24	
EPA 6010D	Sodium	12.6	mg/L	1.0	03/02/24 10:24	
EPA 6010D	Calcium	5.6	mg/L	1.0	03/02/24 10:24	
EPA 6010D	Magnesium	3.1	mg/L	0.050	03/02/24 10:24	
EPA 6020B	Barium	0.020	mg/L	0.0050	03/01/24 16:56	
EPA 6020B	Lithium	0.0038J	mg/L	0.030	03/01/24 16:56	
SM 2540C-2015	Total Dissolved Solids	129	mg/L	25.0	02/26/24 15:47	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	36.4	mg/L	5.0	02/23/24 19:48	
SM 2320B-2011	Alkalinity, Total as CaCO3	36.4	mg/L	5.0	02/23/24 19:48	
EPA 300.0 Rev 2.1 1993	Chloride	7.6	mg/L	1.0	02/23/24 18:27	
92714723011	**YAT-UGRD-EB-1**					
SM 2540C-2015	Total Dissolved Solids	64.0	mg/L	25.0	02/26/24 15:47	
92714723015	**YAT-YGWA-30I**					
EPA 6010D	Potassium	0.55	mg/L	0.50	03/02/24 10:37	
EPA 6010D	Sodium	5.8	mg/L	1.0	03/02/24 10:37	
EPA 6010D	Calcium	1.3	mg/L	1.0	03/02/24 10:37	
EPA 6010D	Magnesium	0.89	mg/L	0.050	03/02/24 10:37	
EPA 6020B	Barium	0.0064	mg/L	0.0050	03/01/24 17:17	
EPA 6020B	Cobalt	0.0029J	mg/L	0.0050	03/01/24 17:17	
SM 2540C-2015	Total Dissolved Solids	55.0	mg/L	25.0	02/26/24 15:48	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	15.7	mg/L	5.0	02/23/24 20:11	
SM 2320B-2011	Alkalinity, Total as CaCO3	15.7	mg/L	5.0	02/23/24 20:11	
EPA 300.0 Rev 2.1 1993	Chloride	1.4	mg/L	1.0	02/23/24 19:12	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92714723015	**YAT-YGWA-30I**					
EPA 300.0 Rev 2.1 1993	Fluoride	0.051J	mg/L	0.10	02/23/24 19:12	
EPA 300.0 Rev 2.1 1993	Sulfate	0.69J	mg/L	1.0	02/23/24 19:12	
92714723016	**YAT-YGWA-3I**					
EPA 6010D	Potassium	5.0	mg/L	0.50	03/02/24 10:45	
EPA 6010D	Sodium	9.2	mg/L	1.0	03/02/24 10:45	
EPA 6010D	Calcium	23.7	mg/L	1.0	03/02/24 10:45	
EPA 6010D	Magnesium	5.3	mg/L	0.050	03/02/24 10:45	
EPA 6020B	Arsenic	0.0013J	mg/L	0.0050	03/01/24 17:47	
EPA 6020B	Barium	0.0032J	mg/L	0.0050	03/01/24 17:47	
EPA 6020B	Lithium	0.020J	mg/L	0.030	03/01/24 17:47	
EPA 6020B	Molybdenum	0.0089J	mg/L	0.010	03/01/24 17:47	
SM 2540C-2015	Total Dissolved Solids	220	mg/L	25.0	02/26/24 15:49	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	90.2	mg/L	5.0	02/23/24 20:17	
SM 2320B-2011	Alkalinity, Total as CaCO3	90.2	mg/L	5.0	02/23/24 20:17	
EPA 300.0 Rev 2.1 1993	Chloride	1.1	mg/L	1.0	02/23/24 20:26	
EPA 300.0 Rev 2.1 1993	Fluoride	0.12	mg/L	0.10	02/23/24 20:26	
EPA 300.0 Rev 2.1 1993	Sulfate	13.8	mg/L	1.0	02/23/24 20:26	
92714723017	**YAT-YGWA-3D**					
EPA 6010D	Potassium	3.5	mg/L	0.50	03/02/24 10:48	
EPA 6010D	Sodium	10.0	mg/L	1.0	03/02/24 10:48	
EPA 6010D	Calcium	30.7	mg/L	1.0	03/02/24 10:48	
EPA 6010D	Magnesium	3.7	mg/L	0.050	03/02/24 10:48	
EPA 6020B	Arsenic	0.0027J	mg/L	0.0050	03/01/24 17:51	
EPA 6020B	Barium	0.0045J	mg/L	0.0050	03/01/24 17:51	
EPA 6020B	Lithium	0.021J	mg/L	0.030	03/01/24 17:51	
EPA 6020B	Molybdenum	0.013	mg/L	0.010	03/01/24 17:51	
SM 2540C-2015	Total Dissolved Solids	294	mg/L	25.0	02/26/24 15:49	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	108	mg/L	5.0	02/23/24 20:25	
SM 2320B-2011	Alkalinity, Total as CaCO3	108	mg/L	5.0	02/23/24 20:25	
EPA 300.0 Rev 2.1 1993	Chloride	1.1	mg/L	1.0	02/23/24 20:40	
EPA 300.0 Rev 2.1 1993	Fluoride	0.45	mg/L	0.10	02/23/24 20:40	
EPA 300.0 Rev 2.1 1993	Sulfate	7.0	mg/L	1.0	02/23/24 20:40	
92714723019	**YAT-YGWA-39**					
EPA 6010D	Potassium	5.8	mg/L	0.50	03/02/24 10:54	
EPA 6010D	Sodium	25.2	mg/L	1.0	03/02/24 10:54	
EPA 6010D	Calcium	16.9	mg/L	1.0	03/02/24 10:54	
EPA 6010D	Magnesium	21.2	mg/L	0.050	03/02/24 10:54	
EPA 6020B	Arsenic	0.0020J	mg/L	0.0050	03/01/24 18:00	
EPA 6020B	Barium	0.029	mg/L	0.0050	03/01/24 18:00	
EPA 6020B	Boron	0.12	mg/L	0.040	03/01/24 18:00	
EPA 6020B	Cobalt	0.00073J	mg/L	0.0050	03/01/24 18:00	
EPA 6020B	Lithium	0.0059J	mg/L	0.030	03/01/24 18:00	
EPA 6020B	Molybdenum	0.0058J	mg/L	0.010	03/01/24 18:00	
SM 2540C-2015	Total Dissolved Solids	233	mg/L	25.0	02/26/24 15:50	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	183	mg/L	5.0	02/23/24 20:49	
SM 2320B-2011	Alkalinity, Total as CaCO3	183	mg/L	5.0	02/23/24 20:49	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92714723019	**YAT-YGWA-39**					
EPA 300.0 Rev 2.1 1993	Chloride	4.6	mg/L	1.0	02/23/24 21:10	
EPA 300.0 Rev 2.1 1993	Fluoride	0.063J	mg/L	0.10	02/23/24 21:10	
EPA 300.0 Rev 2.1 1993	Sulfate	8.6	mg/L	1.0	02/23/24 21:10	
92714723020	**YAT-YGWA-40**					
EPA 6010D	Potassium	2.0	mg/L	0.50	03/02/24 11:39	
EPA 6010D	Sodium	10.1	mg/L	1.0	03/02/24 11:39	
EPA 6010D	Calcium	5.6	mg/L	1.0	03/02/24 11:39	
EPA 6010D	Magnesium	3.2	mg/L	0.050	03/02/24 11:39	
EPA 6020B	Arsenic	0.0012J	mg/L	0.0050	03/01/24 18:04	
EPA 6020B	Barium	0.033	mg/L	0.0050	03/01/24 18:04	
EPA 6020B	Beryllium	0.00025J	mg/L	0.00050	03/01/24 18:04	
EPA 6020B	Boron	0.056	mg/L	0.040	03/01/24 18:04	
EPA 7470A	Mercury	0.00032	mg/L	0.00020	03/07/24 15:52	
SM 2540C-2015	Total Dissolved Solids	109	mg/L	25.0	02/26/24 15:50	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	24.7	mg/L	5.0	02/23/24 21:04	
SM 2320B-2011	Alkalinity, Total as CaCO3	24.7	mg/L	5.0	02/23/24 21:04	
EPA 300.0 Rev 2.1 1993	Chloride	5.7	mg/L	1.0	02/23/24 21:25	
EPA 300.0 Rev 2.1 1993	Sulfate	17.2	mg/L	1.0	02/23/24 21:25	
92714723021	**YAT-YGWA-1I**					
EPA 6010D	Potassium	2.2	mg/L	0.50	03/02/24 08:45	
EPA 6010D	Sodium	5.5	mg/L	1.0	03/02/24 08:45	
EPA 6010D	Calcium	2.2	mg/L	1.0	03/02/24 08:45	
EPA 6010D	Magnesium	1.0	mg/L	0.050	03/02/24 08:45	
EPA 6020B	Barium	0.0040J	mg/L	0.0050	03/01/24 18:29	
EPA 6020B	Boron	0.014J	mg/L	0.040	03/01/24 18:29	
EPA 6020B	Cobalt	0.0018J	mg/L	0.0050	03/01/24 18:29	
EPA 6020B	Molybdenum	0.030	mg/L	0.010	03/01/24 18:29	
SM 2540C-2015	Total Dissolved Solids	59.0	mg/L	25.0	02/26/24 15:50	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	17.9	mg/L	5.0	02/23/24 21:23	
SM 2320B-2011	Alkalinity, Total as CaCO3	17.9	mg/L	5.0	02/23/24 21:23	
EPA 300.0 Rev 2.1 1993	Chloride	1.2	mg/L	1.0	02/23/24 21:40	
EPA 300.0 Rev 2.1 1993	Sulfate	4.3	mg/L	1.0	02/23/24 21:40	
92714723022	**YAT-YGWA-1D**					
EPA 6010D	Potassium	3.8	mg/L	0.50	03/02/24 08:54	
EPA 6010D	Sodium	10	mg/L	1.0	03/02/24 08:54	
EPA 6010D	Calcium	15.3	mg/L	1.0	03/02/24 08:54	
EPA 6010D	Magnesium	2.0	mg/L	0.050	03/02/24 08:54	
EPA 6020B	Antimony	0.0023J	mg/L	0.0030	03/01/24 18:45	
EPA 6020B	Barium	0.0062	mg/L	0.0050	03/01/24 18:45	
EPA 6020B	Boron	0.015J	mg/L	0.040	03/01/24 18:45	
EPA 6020B	Cobalt	0.00055J	mg/L	0.0050	03/01/24 18:45	
EPA 6020B	Lithium	0.0071J	mg/L	0.030	03/01/24 18:45	
EPA 6020B	Molybdenum	0.0098J	mg/L	0.010	03/01/24 18:45	
SM 2540C-2015	Total Dissolved Solids	130	mg/L	25.0	02/26/24 17:48	D6
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	61.2	mg/L	5.0	02/27/24 17:28	
SM 2320B-2011	Alkalinity, Total as CaCO3	61.2	mg/L	5.0	02/27/24 17:28	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92714723022	**YAT-YGWA-1D**					
EPA 300.0 Rev 2.1 1993	Chloride	1.0	mg/L	1.0	02/23/24 21:54	
EPA 300.0 Rev 2.1 1993	Fluoride	0.086J	mg/L	0.10	02/23/24 21:54	
EPA 300.0 Rev 2.1 1993	Sulfate	9.7	mg/L	1.0	02/23/24 21:54	
92714723023	**YAT-YGWA-2I**					
EPA 6010D	Potassium	5.6	mg/L	0.50	03/02/24 08:56	
EPA 6010D	Sodium	9.4	mg/L	1.0	03/02/24 08:56	
EPA 6010D	Calcium	28.2	mg/L	1.0	03/02/24 08:56	
EPA 6010D	Magnesium	4.4	mg/L	0.050	03/02/24 08:56	
EPA 6020B	Antimony	0.00067J	mg/L	0.0030	03/01/24 18:49	
EPA 6020B	Arsenic	0.0019J	mg/L	0.0050	03/01/24 18:49	
EPA 6020B	Barium	0.0044J	mg/L	0.0050	03/01/24 18:49	
EPA 6020B	Lithium	0.0021J	mg/L	0.030	03/01/24 18:49	
EPA 6020B	Molybdenum	0.0076J	mg/L	0.010	03/01/24 18:49	
SM 2540C-2015	Total Dissolved Solids	159	mg/L	25.0	02/26/24 17:49	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	84.2	mg/L	5.0	02/27/24 17:35	
SM 2320B-2011	Alkalinity, Total as CaCO3	84.2	mg/L	5.0	02/27/24 17:35	
EPA 300.0 Rev 2.1 1993	Chloride	0.96J	mg/L	1.0	02/23/24 22:09	
EPA 300.0 Rev 2.1 1993	Fluoride	0.10	mg/L	0.10	02/23/24 22:09	
EPA 300.0 Rev 2.1 1993	Sulfate	23.1	mg/L	1.0	02/23/24 22:09	
92714723024	**YAT-YGWA-14S**					
EPA 6010D	Potassium	0.89	mg/L	0.50	03/04/24 18:20	
EPA 6010D	Sodium	10.1	mg/L	1.0	03/04/24 18:20	
EPA 6010D	Calcium	1.6	mg/L	1.0	03/04/24 18:20	
EPA 6010D	Magnesium	1.8	mg/L	0.050	03/04/24 18:20	
EPA 6020B	Barium	0.0096	mg/L	0.0050	03/05/24 15:59	
EPA 6020B	Beryllium	0.00024J	mg/L	0.00050	03/05/24 15:59	
EPA 6020B	Boron	0.037J	mg/L	0.040	03/05/24 15:59	
EPA 6020B	Selenium	0.0010J	mg/L	0.0050	03/05/24 15:59	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	14.4	mg/L	5.0	03/05/24 17:55	
SM 2320B-2011	Alkalinity, Total as CaCO3	14.4	mg/L	5.0	03/05/24 17:55	
SM 2540C-2015	Total Dissolved Solids	64.0	mg/L	25.0	02/27/24 11:04	
EPA 300.0 Rev 2.1 1993	Chloride	4.8	mg/L	1.0	02/27/24 04:05	
EPA 300.0 Rev 2.1 1993	Sulfate	7.1	mg/L	1.0	02/27/24 04:05	
92714723025	**YAT-YGWA-18S**					
EPA 6010D	Potassium	0.62	mg/L	0.50	03/04/24 15:44	B
EPA 6010D	Calcium	0.84J	mg/L	1.0	03/04/24 15:44	
EPA 6010D	Magnesium	1.0	mg/L	0.050	03/04/24 15:44	
EPA 6010D	Sodium	8.6	mg/L	1.0	03/05/24 18:28	M1
EPA 6020B	Barium	0.013	mg/L	0.0050	03/05/24 16:03	
EPA 6020B	Boron	0.018J	mg/L	0.040	03/05/24 16:03	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	8.7	mg/L	5.0	03/05/24 18:01	
SM 2320B-2011	Alkalinity, Total as CaCO3	8.7	mg/L	5.0	03/05/24 18:01	
SM 2540C-2015	Total Dissolved Solids	52.0	mg/L	25.0	02/27/24 11:04	
EPA 300.0 Rev 2.1 1993	Chloride	6.6	mg/L	1.0	02/27/24 04:19	
EPA 300.0 Rev 2.1 1993	Sulfate	0.79J	mg/L	1.0	02/27/24 04:19	

REPORT OF LABORATORY ANALYSIS

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.: 92714723

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92714723026	**YAT-UGRD-FD-1**					
EPA 6010D	Potassium	0.90	mg/L	0.50	03/04/24 15:53	B
EPA 6010D	Calcium	1.6	mg/L	1.0	03/04/24 15:53	
EPA 6010D	Magnesium	1.7	mg/L	0.050	03/04/24 15:53	
EPA 6010D	Sodium	10.4	mg/L	1.0	03/05/24 18:43	
EPA 6020B	Barium	0.0093	mg/L	0.0050	03/05/24 16:06	
EPA 6020B	Beryllium	0.00024J	mg/L	0.00050	03/05/24 16:06	
EPA 6020B	Boron	0.027J	mg/L	0.040	03/05/24 16:06	
EPA 6020B	Selenium	0.0011J	mg/L	0.0050	03/05/24 16:06	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	14.6	mg/L	5.0	03/05/24 18:06	
SM 2320B-2011	Alkalinity, Total as CaCO3	14.6	mg/L	5.0	03/05/24 18:06	
SM 2540C-2015	Total Dissolved Solids	73.0	mg/L	25.0	02/27/24 11:04	
EPA 300.0 Rev 2.1 1993	Chloride	4.7	mg/L	1.0	02/27/24 05:02	
EPA 300.0 Rev 2.1 1993	Fluoride	0.055J	mg/L	0.10	02/27/24 05:02	
EPA 300.0 Rev 2.1 1993	Sulfate	7.0	mg/L	1.0	02/27/24 05:02	
92714723027	**YAT-UGRD-FD-2**					
EPA 6010D	Potassium	0.63	mg/L	0.50	03/04/24 16:01	B
EPA 6010D	Sodium	9.0	mg/L	1.0	03/04/24 16:01	
EPA 6010D	Calcium	0.87J	mg/L	1.0	03/04/24 16:01	
EPA 6010D	Magnesium	1.0	mg/L	0.050	03/04/24 16:01	
EPA 6020B	Barium	0.013	mg/L	0.0050	03/05/24 16:10	
EPA 6020B	Boron	0.012J	mg/L	0.040	03/05/24 16:10	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	8.8	mg/L	5.0	03/05/24 18:12	
SM 2320B-2011	Alkalinity, Total as CaCO3	8.8	mg/L	5.0	03/05/24 18:12	
SM 2540C-2015	Total Dissolved Solids	53.0	mg/L	25.0	02/27/24 11:04	
EPA 300.0 Rev 2.1 1993	Chloride	6.7	mg/L	1.0	02/27/24 05:16	
EPA 300.0 Rev 2.1 1993	Sulfate	0.79J	mg/L	1.0	02/27/24 05:16	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Sample: YAT-YGWA-47 **Lab ID: 92714723001** Collected: 02/20/24 10:30 Received: 02/21/24 15:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**4.1**	mg/L	0.50	0.15	1	02/28/24 14:22	03/01/24 19:41	7440-09-7	
Sodium	**12.3**	mg/L	1.0	0.58	1	02/28/24 14:22	03/01/24 19:41	7440-23-5	
Calcium	**10.3**	mg/L	1.0	0.12	1	02/28/24 14:22	03/01/24 19:41	7440-70-2	
Magnesium	**10.9**	mg/L	0.050	0.012	1	02/28/24 14:22	03/01/24 19:41	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/28/24 12:45	03/01/24 15:53	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/28/24 12:45	03/01/24 15:53	7440-38-2	
Barium	**0.031**	mg/L	0.0050	0.00047	1	02/28/24 12:45	03/01/24 15:53	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/28/24 12:45	03/01/24 15:53	7440-41-7	
Boron	**0.023J**	mg/L	0.040	0.012	1	02/28/24 12:45	03/01/24 15:53	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/28/24 12:45	03/01/24 15:53	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/28/24 12:45	03/01/24 15:53	7440-47-3	
Cobalt	**0.0011J**	mg/L	0.0050	0.00032	1	02/28/24 12:45	03/01/24 15:53	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/28/24 12:45	03/01/24 15:53	7439-92-1	
Lithium	**0.0036J**	mg/L	0.030	0.0016	1	02/28/24 12:45	03/01/24 15:53	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/28/24 12:45	03/01/24 15:53	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/28/24 12:45	03/01/24 15:53	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/28/24 12:45	03/01/24 15:53	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 12:00	03/07/24 14:44	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**159**	mg/L	25.0	25.0	1		02/26/24 14:45		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**36.4**	mg/L	5.0	5.0	1		02/23/24 17:28		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/23/24 17:28		
Alkalinity, Total as CaCO3	**36.4**	mg/L	5.0	5.0	1		02/23/24 17:28		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.2**	mg/L	1.0	0.60	1		02/23/24 15:14	16887-00-6	
Fluoride	**0.073J**	mg/L	0.10	0.050	1		02/23/24 15:14	16984-48-8	
Sulfate	**51.0**	mg/L	1.0	0.50	1		02/23/24 15:14	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Sample: YAT-GWA-2 **Lab ID: 92714723002** Collected: 02/20/24 11:50 Received: 02/21/24 15:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**9.9**	mg/L	0.50	0.15	1	02/28/24 14:22	03/01/24 19:46	7440-09-7	
Sodium	**8.2**	mg/L	1.0	0.58	1	02/28/24 14:22	03/01/24 19:46	7440-23-5	
Calcium	**22.8**	mg/L	1.0	0.12	1	02/28/24 14:22	03/01/24 19:46	7440-70-2	
Magnesium	**19.8**	mg/L	0.050	0.012	1	02/28/24 14:22	03/01/24 19:46	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0026J**	mg/L	0.0030	0.00054	1	02/28/24 12:45	03/01/24 16:10	7440-36-0	
Arsenic	**0.0015J**	mg/L	0.0050	0.00084	1	02/28/24 12:45	03/01/24 16:10	7440-38-2	
Barium	**0.035**	mg/L	0.0050	0.00047	1	02/28/24 12:45	03/01/24 16:10	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/28/24 12:45	03/01/24 16:10	7440-41-7	
Boron	**0.017J**	mg/L	0.040	0.012	1	02/28/24 12:45	03/01/24 16:10	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/28/24 12:45	03/01/24 16:10	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/28/24 12:45	03/01/24 16:10	7440-47-3	
Cobalt	**0.023**	mg/L	0.0050	0.00032	1	02/28/24 12:45	03/01/24 16:10	7440-48-4	
Copper	**0.00067J**	mg/L	0.0050	0.00043	1	02/28/24 12:45	03/01/24 16:10	7440-50-8	
Lead	ND	mg/L	0.0010	0.00016	1	02/28/24 12:45	03/01/24 16:10	7439-92-1	
Lithium	**0.0024J**	mg/L	0.030	0.0016	1	02/28/24 12:45	03/01/24 16:10	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/28/24 12:45	03/01/24 16:10	7439-98-7	
Nickel	**0.010**	mg/L	0.0050	0.0021	1	02/28/24 12:45	03/01/24 16:10	7440-02-0	
Selenium	ND	mg/L	0.0050	0.00096	1	02/28/24 12:45	03/01/24 16:10	7782-49-2	
Silver	ND	mg/L	0.0050	0.00031	1	02/28/24 12:45	03/01/24 16:10	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00038	1	02/28/24 12:45	03/01/24 16:10	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00075	1	02/28/24 12:45	03/01/24 16:10	7440-62-2	
Zinc	**0.0058J**	mg/L	0.010	0.0024	1	02/28/24 12:45	03/01/24 16:10	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 12:00	03/07/24 14:52	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**214**	mg/L	25.0	25.0	1		02/26/24 15:45		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**73.5**	mg/L	5.0	5.0	1		02/23/24 17:47		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/23/24 17:47		
Alkalinity, Total as CaCO3	**73.5**	mg/L	5.0	5.0	1		02/23/24 17:47		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**6.1**	mg/L	1.0	0.60	1		02/23/24 15:29	16887-00-6	
Fluoride	**0.094J**	mg/L	0.10	0.050	1		02/23/24 15:29	16984-48-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Sample: YAT-GWA-2 **Lab ID: 92714723002** Collected: 02/20/24 11:50 Received: 02/21/24 15:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**75.0**	mg/L	1.0	0.50	1		02/23/24 15:29	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Sample: YAT-YGWA-4I **Lab ID: 92714723003** Collected: 02/20/24 11:10 Received: 02/21/24 15:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**4.0**	mg/L	0.50	0.15	1	02/28/24 14:22	03/01/24 19:49	7440-09-7	
Sodium	**10.1**	mg/L	1.0	0.58	1	02/28/24 14:22	03/01/24 19:49	7440-23-5	
Calcium	**9.9**	mg/L	1.0	0.12	1	02/28/24 14:22	03/01/24 19:49	7440-70-2	
Magnesium	**5.5**	mg/L	0.050	0.012	1	02/28/24 14:22	03/01/24 19:49	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.00061J**	mg/L	0.0030	0.00054	1	02/28/24 12:45	03/01/24 16:14	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/28/24 12:45	03/01/24 16:14	7440-38-2	
Barium	**0.014**	mg/L	0.0050	0.00047	1	02/28/24 12:45	03/01/24 16:14	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/28/24 12:45	03/01/24 16:14	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	02/28/24 12:45	03/01/24 16:14	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/28/24 12:45	03/01/24 16:14	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/28/24 12:45	03/01/24 16:14	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/28/24 12:45	03/01/24 16:14	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/28/24 12:45	03/01/24 16:14	7439-92-1	
Lithium	**0.014J**	mg/L	0.030	0.0016	1	02/28/24 12:45	03/01/24 16:14	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/28/24 12:45	03/01/24 16:14	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/28/24 12:45	03/01/24 16:14	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/28/24 12:45	03/01/24 16:14	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 12:00	03/07/24 15:02	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**140**	mg/L	25.0	25.0	1		02/26/24 15:45		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**56.0**	mg/L	5.0	5.0	1		02/23/24 18:50		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/23/24 18:50		
Alkalinity, Total as CaCO3	**56.0**	mg/L	5.0	5.0	1		02/23/24 18:50		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.6**	mg/L	1.0	0.60	1		02/23/24 15:44	16887-00-6	
Fluoride	**0.059J**	mg/L	0.10	0.050	1		02/23/24 15:44	16984-48-8	
Sulfate	**8.5**	mg/L	1.0	0.50	1		02/23/24 15:44	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Sample: YAT-YGWA-5I **Lab ID: 92714723004** Collected: 02/20/24 12:18 Received: 02/21/24 15:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**1.5**	mg/L	0.50	0.15	1	02/28/24 14:22	03/01/24 19:57	7440-09-7	
Sodium	**10.5**	mg/L	1.0	0.58	1	02/28/24 14:22	03/01/24 19:57	7440-23-5	
Calcium	**2.7**	mg/L	1.0	0.12	1	02/28/24 14:22	03/01/24 19:57	7440-70-2	
Magnesium	**2.7**	mg/L	0.050	0.012	1	02/28/24 14:22	03/01/24 19:57	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/28/24 12:45	03/01/24 16:18	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/28/24 12:45	03/01/24 16:18	7440-38-2	
Barium	**0.019**	mg/L	0.0050	0.00047	1	02/28/24 12:45	03/01/24 16:18	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/28/24 12:45	03/01/24 16:18	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	02/28/24 12:45	03/01/24 16:18	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/28/24 12:45	03/01/24 16:18	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/28/24 12:45	03/01/24 16:18	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/28/24 12:45	03/01/24 16:18	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/28/24 12:45	03/01/24 16:18	7439-92-1	
Lithium	**0.0033J**	mg/L	0.030	0.0016	1	02/28/24 12:45	03/01/24 16:18	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/28/24 12:45	03/01/24 16:18	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/28/24 12:45	03/01/24 16:18	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/28/24 12:45	03/01/24 16:18	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 12:00	03/07/24 15:05	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**137**	mg/L	25.0	25.0	1		02/26/24 15:45		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**25.3**	mg/L	5.0	5.0	1		02/23/24 18:58		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/23/24 18:58		
Alkalinity, Total as CaCO3	**25.3**	mg/L	5.0	5.0	1		02/23/24 18:58		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.8**	mg/L	1.0	0.60	1		02/23/24 15:59	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/23/24 15:59	16984-48-8	
Sulfate	**2.5**	mg/L	1.0	0.50	1		02/23/24 15:59	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Sample: YAT-YGWA-5D **Lab ID: 92714723005** Collected: 02/20/24 13:25 Received: 02/21/24 15:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**3.5**	mg/L	0.50	0.15	1	02/28/24 14:22	03/01/24 20:00	7440-09-7	
Sodium	**9.5**	mg/L	1.0	0.58	1	02/28/24 14:22	03/01/24 20:00	7440-23-5	
Calcium	**27.2**	mg/L	1.0	0.12	1	02/28/24 14:22	03/01/24 20:00	7440-70-2	
Magnesium	**4.5**	mg/L	0.050	0.012	1	02/28/24 14:22	03/01/24 20:00	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/28/24 12:45	03/01/24 16:22	7440-36-0	
Arsenic	**0.0030J**	mg/L	0.0050	0.00084	1	02/28/24 12:45	03/01/24 16:22	7440-38-2	
Barium	**0.0078**	mg/L	0.0050	0.00047	1	02/28/24 12:45	03/01/24 16:22	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/28/24 12:45	03/01/24 16:22	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	02/28/24 12:45	03/01/24 16:22	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/28/24 12:45	03/01/24 16:22	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/28/24 12:45	03/01/24 16:22	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/28/24 12:45	03/01/24 16:22	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/28/24 12:45	03/01/24 16:22	7439-92-1	
Lithium	**0.0056J**	mg/L	0.030	0.0016	1	02/28/24 12:45	03/01/24 16:22	7439-93-2	
Molybdenum	**0.0010J**	mg/L	0.010	0.00062	1	02/28/24 12:45	03/01/24 16:22	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/28/24 12:45	03/01/24 16:22	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/28/24 12:45	03/01/24 16:22	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 12:00	03/07/24 15:07	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**639**	mg/L	25.0	25.0	1		02/26/24 15:46		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**103**	mg/L	5.0	5.0	1		02/23/24 19:04		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/23/24 19:04		
Alkalinity, Total as CaCO3	**103**	mg/L	5.0	5.0	1		02/23/24 19:04		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.2**	mg/L	1.0	0.60	1		02/23/24 16:14	16887-00-6	
Fluoride	**0.076J**	mg/L	0.10	0.050	1		02/23/24 16:14	16984-48-8	
Sulfate	**5.1**	mg/L	1.0	0.50	1		02/23/24 16:14	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Sample: YAT-YGWA-20S **Lab ID: 92714723006** Collected: 02/20/24 14:40 Received: 02/21/24 15:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**0.51**	mg/L	0.50	0.15	1	02/28/24 14:22	03/01/24 20:02	7440-09-7	
Sodium	**9.2**	mg/L	1.0	0.58	1	02/28/24 14:22	03/01/24 20:02	7440-23-5	
Calcium	**2.5**	mg/L	1.0	0.12	1	02/28/24 14:22	03/01/24 20:02	7440-70-2	
Magnesium	**0.59**	mg/L	0.050	0.012	1	02/28/24 14:22	03/01/24 20:02	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/28/24 12:45	03/01/24 16:40	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/28/24 12:45	03/01/24 16:40	7440-38-2	
Barium	**0.013**	mg/L	0.0050	0.00047	1	02/28/24 12:45	03/01/24 16:40	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/28/24 12:45	03/01/24 16:40	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	02/28/24 12:45	03/01/24 16:40	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/28/24 12:45	03/01/24 16:40	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/28/24 12:45	03/01/24 16:40	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/28/24 12:45	03/01/24 16:40	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/28/24 12:45	03/01/24 16:40	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	02/28/24 12:45	03/01/24 16:40	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/28/24 12:45	03/01/24 16:40	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/28/24 12:45	03/01/24 16:40	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/28/24 12:45	03/01/24 16:40	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 12:00	03/07/24 15:10	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**164**	mg/L	25.0	25.0	1		02/26/24 15:46		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**24.6**	mg/L	5.0	5.0	1		02/23/24 19:13		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/23/24 19:13		
Alkalinity, Total as CaCO3	**24.6**	mg/L	5.0	5.0	1		02/23/24 19:13		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.9**	mg/L	1.0	0.60	1		02/23/24 17:28	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/23/24 17:28	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/23/24 17:28	14808-79-8	

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ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Sample: YAT-YGWA-21I **Lab ID: 92714723007** Collected: 02/20/24 16:38 Received: 02/21/24 15:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**3.1**	mg/L	0.50	0.15	1	02/28/24 14:22	03/01/24 20:05	7440-09-7	
Sodium	**18.6**	mg/L	1.0	0.58	1	02/28/24 14:22	03/01/24 20:05	7440-23-5	
Calcium	**7.0**	mg/L	1.0	0.12	1	02/28/24 14:22	03/01/24 20:05	7440-70-2	
Magnesium	**3.6**	mg/L	0.050	0.012	1	02/28/24 14:22	03/01/24 20:05	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0013J**	mg/L	0.0030	0.00054	1	02/28/24 12:45	03/01/24 16:44	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/28/24 12:45	03/01/24 16:44	7440-38-2	
Barium	**0.0065**	mg/L	0.0050	0.00047	1	02/28/24 12:45	03/01/24 16:44	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/28/24 12:45	03/01/24 16:44	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	02/28/24 12:45	03/01/24 16:44	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/28/24 12:45	03/01/24 16:44	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/28/24 12:45	03/01/24 16:44	7440-47-3	
Cobalt	**0.020**	mg/L	0.0050	0.00032	1	02/28/24 12:45	03/01/24 16:44	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/28/24 12:45	03/01/24 16:44	7439-92-1	
Lithium	**0.0062J**	mg/L	0.030	0.0016	1	02/28/24 12:45	03/01/24 16:44	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/28/24 12:45	03/01/24 16:44	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/28/24 12:45	03/01/24 16:44	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/28/24 12:45	03/01/24 16:44	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 12:00	03/07/24 15:13	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**156**	mg/L	25.0	25.0	1		02/26/24 15:46		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**70.9**	mg/L	5.0	5.0	1		02/23/24 19:19		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/23/24 19:19		
Alkalinity, Total as CaCO3	**70.9**	mg/L	5.0	5.0	1		02/23/24 19:19		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.3**	mg/L	1.0	0.60	1		02/23/24 17:43	16887-00-6	
Fluoride	**0.083J**	mg/L	0.10	0.050	1		02/23/24 17:43	16984-48-8	
Sulfate	**3.8**	mg/L	1.0	0.50	1		02/23/24 17:43	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Sample: YAT-YGWA-17S **Lab ID: 92714723008** Collected: 02/20/24 10:37 Received: 02/21/24 15:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**0.36J**	mg/L	0.50	0.15	1	02/28/24 14:46	03/02/24 10:05	7440-09-7	
Sodium	**15.0**	mg/L	1.0	0.58	1	02/28/24 14:46	03/02/24 10:05	7440-23-5	
Calcium	**3.2**	mg/L	1.0	0.12	1	02/28/24 14:46	03/02/24 10:05	7440-70-2	
Magnesium	**1.1**	mg/L	0.050	0.012	1	02/28/24 14:46	03/02/24 10:05	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/28/24 12:45	03/01/24 16:48	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/28/24 12:45	03/01/24 16:48	7440-38-2	
Barium	**0.017**	mg/L	0.0050	0.00047	1	02/28/24 12:45	03/01/24 16:48	7440-39-3	
Beryllium	**0.00010J**	mg/L	0.00050	0.000094	1	02/28/24 12:45	03/01/24 16:48	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	02/28/24 12:45	03/01/24 16:48	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/28/24 12:45	03/01/24 16:48	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/28/24 12:45	03/01/24 16:48	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/28/24 12:45	03/01/24 16:48	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/28/24 12:45	03/01/24 16:48	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	02/28/24 12:45	03/01/24 16:48	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/28/24 12:45	03/01/24 16:48	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/28/24 12:45	03/01/24 16:48	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/28/24 12:45	03/01/24 16:48	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 12:00	03/07/24 15:15	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**77.0**	mg/L	25.0	25.0	1		02/26/24 15:46		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**14.5**	mg/L	5.0	5.0	1		02/23/24 19:27		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/23/24 19:27		
Alkalinity, Total as CaCO3	**14.5**	mg/L	5.0	5.0	1		02/23/24 19:27		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**12.2**	mg/L	1.0	0.60	1		02/23/24 17:58	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/23/24 17:58	16984-48-8	
Sulfate	**4.6**	mg/L	1.0	0.50	1		02/23/24 17:58	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Sample: YAT-YGWA-18I **Lab ID: 92714723010** Collected: 02/20/24 12:48 Received: 02/21/24 15:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**0.95**	mg/L	0.50	0.15	1	02/28/24 14:46	03/02/24 10:24	7440-09-7	
Sodium	**12.6**	mg/L	1.0	0.58	1	02/28/24 14:46	03/02/24 10:24	7440-23-5	
Calcium	**5.6**	mg/L	1.0	0.12	1	02/28/24 14:46	03/02/24 10:24	7440-70-2	
Magnesium	**3.1**	mg/L	0.050	0.012	1	02/28/24 14:46	03/02/24 10:24	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/28/24 12:45	03/01/24 16:56	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/28/24 12:45	03/01/24 16:56	7440-38-2	
Barium	**0.020**	mg/L	0.0050	0.00047	1	02/28/24 12:45	03/01/24 16:56	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/28/24 12:45	03/01/24 16:56	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	02/28/24 12:45	03/01/24 16:56	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/28/24 12:45	03/01/24 16:56	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/28/24 12:45	03/01/24 16:56	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/28/24 12:45	03/01/24 16:56	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/28/24 12:45	03/01/24 16:56	7439-92-1	
Lithium	**0.0038J**	mg/L	0.030	0.0016	1	02/28/24 12:45	03/01/24 16:56	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/28/24 12:45	03/01/24 16:56	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/28/24 12:45	03/01/24 16:56	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/28/24 12:45	03/01/24 16:56	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 12:00	03/07/24 15:23	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**129**	mg/L	25.0	25.0	1		02/26/24 15:47		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**36.4**	mg/L	5.0	5.0	1		02/23/24 19:48		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/23/24 19:48		
Alkalinity, Total as CaCO3	**36.4**	mg/L	5.0	5.0	1		02/23/24 19:48		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**7.6**	mg/L	1.0	0.60	1		02/23/24 18:27	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/23/24 18:27	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/23/24 18:27	14808-79-8	

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ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Sample: YAT-UGRD-EB-1 **Lab ID: 92714723011** Collected: 02/20/24 17:15 Received: 02/21/24 15:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	ND	mg/L	0.50	0.15	1	02/28/24 14:46	03/02/24 10:26	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	02/28/24 14:46	03/02/24 10:26	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	02/28/24 14:46	03/02/24 10:26	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	02/28/24 14:46	03/02/24 10:26	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/28/24 12:45	03/01/24 17:01	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/28/24 12:45	03/01/24 17:01	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	02/28/24 12:45	03/01/24 17:01	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/28/24 12:45	03/01/24 17:01	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	02/28/24 12:45	03/01/24 17:01	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/28/24 12:45	03/01/24 17:01	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/28/24 12:45	03/01/24 17:01	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/28/24 12:45	03/01/24 17:01	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/28/24 12:45	03/01/24 17:01	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	02/28/24 12:45	03/01/24 17:01	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/28/24 12:45	03/01/24 17:01	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/28/24 12:45	03/01/24 17:01	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/28/24 12:45	03/01/24 17:01	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 12:00	03/07/24 15:26	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**64.0**	mg/L	25.0	25.0	1		02/26/24 15:47		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/23/24 19:54		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/23/24 19:54		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/23/24 19:54		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		02/23/24 11:47	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/23/24 11:47	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/23/24 11:47	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Sample: YAT-UGRD-FB-1 **Lab ID: 92714723012** Collected: 02/20/24 15:35 Received: 02/21/24 15:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	ND	mg/L	0.50	0.15	1	02/28/24 14:46	03/02/24 10:29	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	02/28/24 14:46	03/02/24 10:29	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	02/28/24 14:46	03/02/24 10:29	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	02/28/24 14:46	03/02/24 10:29	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/28/24 12:45	03/01/24 17:05	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/28/24 12:45	03/01/24 17:05	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	02/28/24 12:45	03/01/24 17:05	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/28/24 12:45	03/01/24 17:05	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	02/28/24 12:45	03/01/24 17:05	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/28/24 12:45	03/01/24 17:05	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/28/24 12:45	03/01/24 17:05	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/28/24 12:45	03/01/24 17:05	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/28/24 12:45	03/01/24 17:05	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	02/28/24 12:45	03/01/24 17:05	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/28/24 12:45	03/01/24 17:05	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/28/24 12:45	03/01/24 17:05	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/28/24 12:45	03/01/24 17:05	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 12:00	03/07/24 15:28	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		02/26/24 15:47		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/23/24 19:58		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/23/24 19:58		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/23/24 19:58		
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		02/23/24 12:02	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/23/24 12:02	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/23/24 12:02	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Sample: YAT-UGRD-EB-2 **Lab ID: 92714723013** Collected: 02/20/24 15:55 Received: 02/21/24 15:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	ND	mg/L	0.50	0.15	1	02/28/24 14:46	03/02/24 10:32	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	02/28/24 14:46	03/02/24 10:32	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	02/28/24 14:46	03/02/24 10:32	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	02/28/24 14:46	03/02/24 10:32	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/28/24 12:45	03/01/24 17:09	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/28/24 12:45	03/01/24 17:09	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	02/28/24 12:45	03/01/24 17:09	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/28/24 12:45	03/01/24 17:09	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	02/28/24 12:45	03/01/24 17:09	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/28/24 12:45	03/01/24 17:09	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/28/24 12:45	03/01/24 17:09	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/28/24 12:45	03/01/24 17:09	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/28/24 12:45	03/01/24 17:09	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	02/28/24 12:45	03/01/24 17:09	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/28/24 12:45	03/01/24 17:09	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/28/24 12:45	03/01/24 17:09	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/28/24 12:45	03/01/24 17:09	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 12:00	03/07/24 15:31	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		02/26/24 15:48		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/23/24 20:03		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/23/24 20:03		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/23/24 20:03		
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		02/23/24 12:17	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/23/24 12:17	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/23/24 12:17	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Sample: YAT-UGRD-FB-2 **Lab ID: 92714723014** Collected: 02/20/24 17:00 Received: 02/21/24 15:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	ND	mg/L	0.50	0.15	1	02/28/24 14:46	03/02/24 10:35	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	02/28/24 14:46	03/02/24 10:35	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	02/28/24 14:46	03/02/24 10:35	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	02/28/24 14:46	03/02/24 10:35	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/28/24 12:45	03/01/24 17:13	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/28/24 12:45	03/01/24 17:13	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	02/28/24 12:45	03/01/24 17:13	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/28/24 12:45	03/01/24 17:13	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	02/28/24 12:45	03/01/24 17:13	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/28/24 12:45	03/01/24 17:13	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/28/24 12:45	03/01/24 17:13	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/28/24 12:45	03/01/24 17:13	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/28/24 12:45	03/01/24 17:13	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	02/28/24 12:45	03/01/24 17:13	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/28/24 12:45	03/01/24 17:13	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/28/24 12:45	03/01/24 17:13	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/28/24 12:45	03/01/24 17:13	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 12:00	03/07/24 15:34	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		02/26/24 15:48		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/23/24 20:07		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/23/24 20:07		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/23/24 20:07		
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		02/23/24 12:31	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/23/24 12:31	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/23/24 12:31	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Sample: YAT-YGWA-30I **Lab ID: 92714723015** Collected: 02/20/24 16:25 Received: 02/21/24 15:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**0.55**	mg/L	0.50	0.15	1	02/28/24 14:46	03/02/24 10:37	7440-09-7	
Sodium	**5.8**	mg/L	1.0	0.58	1	02/28/24 14:46	03/02/24 10:37	7440-23-5	
Calcium	**1.3**	mg/L	1.0	0.12	1	02/28/24 14:46	03/02/24 10:37	7440-70-2	
Magnesium	**0.89**	mg/L	0.050	0.012	1	02/28/24 14:46	03/02/24 10:37	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/28/24 12:45	03/01/24 17:17	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/28/24 12:45	03/01/24 17:17	7440-38-2	
Barium	**0.0064**	mg/L	0.0050	0.00047	1	02/28/24 12:45	03/01/24 17:17	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/28/24 12:45	03/01/24 17:17	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	02/28/24 12:45	03/01/24 17:17	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/28/24 12:45	03/01/24 17:17	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/28/24 12:45	03/01/24 17:17	7440-47-3	
Cobalt	**0.0029J**	mg/L	0.0050	0.00032	1	02/28/24 12:45	03/01/24 17:17	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/28/24 12:45	03/01/24 17:17	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	02/28/24 12:45	03/01/24 17:17	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/28/24 12:45	03/01/24 17:17	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/28/24 12:45	03/01/24 17:17	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/28/24 12:45	03/01/24 17:17	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 12:00	03/07/24 15:36	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**55.0**	mg/L	25.0	25.0	1		02/26/24 15:48		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**15.7**	mg/L	5.0	5.0	1		02/23/24 20:11		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/23/24 20:11		
Alkalinity, Total as CaCO3	**15.7**	mg/L	5.0	5.0	1		02/23/24 20:11		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.4**	mg/L	1.0	0.60	1		02/23/24 19:12	16887-00-6	
Fluoride	**0.051J**	mg/L	0.10	0.050	1		02/23/24 19:12	16984-48-8	
Sulfate	**0.69J**	mg/L	1.0	0.50	1		02/23/24 19:12	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Sample: YAT-YGWA-3I **Lab ID: 92714723016** Collected: 02/20/24 13:50 Received: 02/21/24 15:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**5.0**	mg/L	0.50	0.15	1	02/28/24 14:46	03/02/24 10:45	7440-09-7	
Sodium	**9.2**	mg/L	1.0	0.58	1	02/28/24 14:46	03/02/24 10:45	7440-23-5	
Calcium	**23.7**	mg/L	1.0	0.12	1	02/28/24 14:46	03/02/24 10:45	7440-70-2	
Magnesium	**5.3**	mg/L	0.050	0.012	1	02/28/24 14:46	03/02/24 10:45	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/28/24 12:45	03/01/24 17:47	7440-36-0	
Arsenic	**0.0013J**	mg/L	0.0050	0.00084	1	02/28/24 12:45	03/01/24 17:47	7440-38-2	
Barium	**0.0032J**	mg/L	0.0050	0.00047	1	02/28/24 12:45	03/01/24 17:47	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/28/24 12:45	03/01/24 17:47	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	02/28/24 12:45	03/01/24 17:47	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/28/24 12:45	03/01/24 17:47	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/28/24 12:45	03/01/24 17:47	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/28/24 12:45	03/01/24 17:47	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/28/24 12:45	03/01/24 17:47	7439-92-1	
Lithium	**0.020J**	mg/L	0.030	0.0016	1	02/28/24 12:45	03/01/24 17:47	7439-93-2	
Molybdenum	**0.0089J**	mg/L	0.010	0.00062	1	02/28/24 12:45	03/01/24 17:47	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/28/24 12:45	03/01/24 17:47	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/28/24 12:45	03/01/24 17:47	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 12:00	03/07/24 15:39	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**220**	mg/L	25.0	25.0	1		02/26/24 15:49		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**90.2**	mg/L	5.0	5.0	1		02/23/24 20:17		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/23/24 20:17		
Alkalinity, Total as CaCO3	**90.2**	mg/L	5.0	5.0	1		02/23/24 20:17		
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		02/23/24 20:26	16887-00-6	
Fluoride	**0.12**	mg/L	0.10	0.050	1		02/23/24 20:26	16984-48-8	
Sulfate	**13.8**	mg/L	1.0	0.50	1		02/23/24 20:26	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Sample: YAT-YGWA-3D **Lab ID: 92714723017** Collected: 02/20/24 11:35 Received: 02/21/24 15:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**3.5**	mg/L	0.50	0.15	1	02/28/24 14:46	03/02/24 10:48	7440-09-7	
Sodium	**10.0**	mg/L	1.0	0.58	1	02/28/24 14:46	03/02/24 10:48	7440-23-5	
Calcium	**30.7**	mg/L	1.0	0.12	1	02/28/24 14:46	03/02/24 10:48	7440-70-2	
Magnesium	**3.7**	mg/L	0.050	0.012	1	02/28/24 14:46	03/02/24 10:48	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/28/24 12:45	03/01/24 17:51	7440-36-0	
Arsenic	**0.0027J**	mg/L	0.0050	0.00084	1	02/28/24 12:45	03/01/24 17:51	7440-38-2	
Barium	**0.0045J**	mg/L	0.0050	0.00047	1	02/28/24 12:45	03/01/24 17:51	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/28/24 12:45	03/01/24 17:51	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	02/28/24 12:45	03/01/24 17:51	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/28/24 12:45	03/01/24 17:51	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/28/24 12:45	03/01/24 17:51	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/28/24 12:45	03/01/24 17:51	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/28/24 12:45	03/01/24 17:51	7439-92-1	
Lithium	**0.021J**	mg/L	0.030	0.0016	1	02/28/24 12:45	03/01/24 17:51	7439-93-2	
Molybdenum	**0.013**	mg/L	0.010	0.00062	1	02/28/24 12:45	03/01/24 17:51	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/28/24 12:45	03/01/24 17:51	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/28/24 12:45	03/01/24 17:51	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 12:00	03/07/24 15:41	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**294**	mg/L	25.0	25.0	1		02/26/24 15:49		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**108**	mg/L	5.0	5.0	1		02/23/24 20:25		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/23/24 20:25		
Alkalinity, Total as CaCO3	**108**	mg/L	5.0	5.0	1		02/23/24 20:25		
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		02/23/24 20:40	16887-00-6	
Fluoride	**0.45**	mg/L	0.10	0.050	1		02/23/24 20:40	16984-48-8	
Sulfate	**7.0**	mg/L	1.0	0.50	1		02/23/24 20:40	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Sample: YAT-YGWA-39 **Lab ID: 92714723019** Collected: 02/20/24 13:58 Received: 02/21/24 15:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**5.8**	mg/L	0.50	0.15	1	02/28/24 14:46	03/02/24 10:54	7440-09-7	
Sodium	**25.2**	mg/L	1.0	0.58	1	02/28/24 14:46	03/02/24 10:54	7440-23-5	
Calcium	**16.9**	mg/L	1.0	0.12	1	02/28/24 14:46	03/02/24 10:54	7440-70-2	
Magnesium	**21.2**	mg/L	0.050	0.012	1	02/28/24 14:46	03/02/24 10:54	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/28/24 12:45	03/01/24 18:00	7440-36-0	
Arsenic	**0.0020J**	mg/L	0.0050	0.00084	1	02/28/24 12:45	03/01/24 18:00	7440-38-2	
Barium	**0.029**	mg/L	0.0050	0.00047	1	02/28/24 12:45	03/01/24 18:00	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/28/24 12:45	03/01/24 18:00	7440-41-7	
Boron	**0.12**	mg/L	0.040	0.012	1	02/28/24 12:45	03/01/24 18:00	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/28/24 12:45	03/01/24 18:00	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/28/24 12:45	03/01/24 18:00	7440-47-3	
Cobalt	**0.00073J**	mg/L	0.0050	0.00032	1	02/28/24 12:45	03/01/24 18:00	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/28/24 12:45	03/01/24 18:00	7439-92-1	
Lithium	**0.0059J**	mg/L	0.030	0.0016	1	02/28/24 12:45	03/01/24 18:00	7439-93-2	
Molybdenum	**0.0058J**	mg/L	0.010	0.00062	1	02/28/24 12:45	03/01/24 18:00	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/28/24 12:45	03/01/24 18:00	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/28/24 12:45	03/01/24 18:00	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 12:00	03/07/24 15:49	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**233**	mg/L	25.0	25.0	1		02/26/24 15:50		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**183**	mg/L	5.0	5.0	1		02/23/24 20:49		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/23/24 20:49		
Alkalinity, Total as CaCO3	**183**	mg/L	5.0	5.0	1		02/23/24 20:49		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.6**	mg/L	1.0	0.60	1		02/23/24 21:10	16887-00-6	
Fluoride	**0.063J**	mg/L	0.10	0.050	1		02/23/24 21:10	16984-48-8	
Sulfate	**8.6**	mg/L	1.0	0.50	1		02/23/24 21:10	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Sample: YAT-YGWA-40 **Lab ID: 92714723020** Collected: 02/20/24 15:10 Received: 02/21/24 15:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**2.0**	mg/L	0.50	0.15	1	02/28/24 14:46	03/02/24 11:39	7440-09-7	
Sodium	**10.1**	mg/L	1.0	0.58	1	02/28/24 14:46	03/02/24 11:39	7440-23-5	
Calcium	**5.6**	mg/L	1.0	0.12	1	02/28/24 14:46	03/02/24 11:39	7440-70-2	
Magnesium	**3.2**	mg/L	0.050	0.012	1	02/28/24 14:46	03/02/24 11:39	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/28/24 12:45	03/01/24 18:04	7440-36-0	
Arsenic	**0.0012J**	mg/L	0.0050	0.00084	1	02/28/24 12:45	03/01/24 18:04	7440-38-2	
Barium	**0.033**	mg/L	0.0050	0.00047	1	02/28/24 12:45	03/01/24 18:04	7440-39-3	
Beryllium	**0.00025J**	mg/L	0.00050	0.000094	1	02/28/24 12:45	03/01/24 18:04	7440-41-7	
Boron	**0.056**	mg/L	0.040	0.012	1	02/28/24 12:45	03/01/24 18:04	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/28/24 12:45	03/01/24 18:04	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/28/24 12:45	03/01/24 18:04	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/28/24 12:45	03/01/24 18:04	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/28/24 12:45	03/01/24 18:04	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	02/28/24 12:45	03/01/24 18:04	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/28/24 12:45	03/01/24 18:04	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/28/24 12:45	03/01/24 18:04	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/28/24 12:45	03/01/24 18:04	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.00032**	mg/L	0.00020	0.00013	1	03/07/24 12:00	03/07/24 15:52	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**109**	mg/L	25.0	25.0	1		02/26/24 15:50		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**24.7**	mg/L	5.0	5.0	1		02/23/24 21:04		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/23/24 21:04		
Alkalinity, Total as CaCO3	**24.7**	mg/L	5.0	5.0	1		02/23/24 21:04		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.7**	mg/L	1.0	0.60	1		02/23/24 21:25	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/23/24 21:25	16984-48-8	
Sulfate	**17.2**	mg/L	1.0	0.50	1		02/23/24 21:25	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Sample: YAT-YGWA-1I **Lab ID: 92714723021** Collected: 02/20/24 12:02 Received: 02/21/24 15:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**2.2**	mg/L	0.50	0.15	1	02/28/24 18:17	03/02/24 08:45	7440-09-7	
Sodium	**5.5**	mg/L	1.0	0.58	1	02/28/24 18:17	03/02/24 08:45	7440-23-5	
Calcium	**2.2**	mg/L	1.0	0.12	1	02/28/24 18:17	03/02/24 08:45	7440-70-2	
Magnesium	**1.0**	mg/L	0.050	0.012	1	02/28/24 18:17	03/02/24 08:45	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/28/24 13:54	03/01/24 18:29	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/28/24 13:54	03/01/24 18:29	7440-38-2	
Barium	**0.0040J**	mg/L	0.0050	0.00047	1	02/28/24 13:54	03/01/24 18:29	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/28/24 13:54	03/01/24 18:29	7440-41-7	
Boron	**0.014J**	mg/L	0.040	0.012	1	02/28/24 13:54	03/01/24 18:29	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/28/24 13:54	03/01/24 18:29	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/28/24 13:54	03/01/24 18:29	7440-47-3	
Cobalt	**0.0018J**	mg/L	0.0050	0.00032	1	02/28/24 13:54	03/01/24 18:29	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/28/24 13:54	03/01/24 18:29	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	02/28/24 13:54	03/01/24 18:29	7439-93-2	
Molybdenum	**0.030**	mg/L	0.010	0.00062	1	02/28/24 13:54	03/01/24 18:29	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/28/24 13:54	03/01/24 18:29	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/28/24 13:54	03/01/24 18:29	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 12:00	03/07/24 15:55	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**59.0**	mg/L	25.0	25.0	1		02/26/24 15:50		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**17.9**	mg/L	5.0	5.0	1		02/23/24 21:23		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/23/24 21:23		
Alkalinity, Total as CaCO3	**17.9**	mg/L	5.0	5.0	1		02/23/24 21:23		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.2**	mg/L	1.0	0.60	1		02/23/24 21:40	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/23/24 21:40	16984-48-8	
Sulfate	**4.3**	mg/L	1.0	0.50	1		02/23/24 21:40	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Sample: YAT-YGWA-1D **Lab ID: 92714723022** Collected: 02/20/24 13:24 Received: 02/21/24 15:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**3.8**	mg/L	0.50	0.15	1	02/28/24 18:17	03/02/24 08:54	7440-09-7	
Sodium	**10**	mg/L	1.0	0.58	1	02/28/24 18:17	03/02/24 08:54	7440-23-5	
Calcium	**15.3**	mg/L	1.0	0.12	1	02/28/24 18:17	03/02/24 08:54	7440-70-2	
Magnesium	**2.0**	mg/L	0.050	0.012	1	02/28/24 18:17	03/02/24 08:54	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0023J**	mg/L	0.0030	0.00054	1	02/28/24 13:54	03/01/24 18:45	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/28/24 13:54	03/01/24 18:45	7440-38-2	
Barium	**0.0062**	mg/L	0.0050	0.00047	1	02/28/24 13:54	03/01/24 18:45	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/28/24 13:54	03/01/24 18:45	7440-41-7	
Boron	**0.015J**	mg/L	0.040	0.012	1	02/28/24 13:54	03/01/24 18:45	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/28/24 13:54	03/01/24 18:45	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/28/24 13:54	03/01/24 18:45	7440-47-3	
Cobalt	**0.00055J**	mg/L	0.0050	0.00032	1	02/28/24 13:54	03/01/24 18:45	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/28/24 13:54	03/01/24 18:45	7439-92-1	
Lithium	**0.0071J**	mg/L	0.030	0.0016	1	02/28/24 13:54	03/01/24 18:45	7439-93-2	
Molybdenum	**0.0098J**	mg/L	0.010	0.00062	1	02/28/24 13:54	03/01/24 18:45	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/28/24 13:54	03/01/24 18:45	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/28/24 13:54	03/01/24 18:45	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 12:00	03/07/24 15:57	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**130**	mg/L	25.0	25.0	1		02/26/24 17:48		D6
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**61.2**	mg/L	5.0	5.0	1		02/27/24 17:28		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/27/24 17:28		
Alkalinity, Total as CaCO3	**61.2**	mg/L	5.0	5.0	1		02/27/24 17:28		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.0**	mg/L	1.0	0.60	1		02/23/24 21:54	16887-00-6	
Fluoride	**0.086J**	mg/L	0.10	0.050	1		02/23/24 21:54	16984-48-8	
Sulfate	**9.7**	mg/L	1.0	0.50	1		02/23/24 21:54	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Sample: YAT-YGWA-2I **Lab ID: 92714723023** Collected: 02/20/24 16:02 Received: 02/21/24 15:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**5.6**	mg/L	0.50	0.15	1	02/28/24 18:17	03/02/24 08:56	7440-09-7	
Sodium	**9.4**	mg/L	1.0	0.58	1	02/28/24 18:17	03/02/24 08:56	7440-23-5	
Calcium	**28.2**	mg/L	1.0	0.12	1	02/28/24 18:17	03/02/24 08:56	7440-70-2	
Magnesium	**4.4**	mg/L	0.050	0.012	1	02/28/24 18:17	03/02/24 08:56	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.00067J**	mg/L	0.0030	0.00054	1	02/28/24 13:54	03/01/24 18:49	7440-36-0	
Arsenic	**0.0019J**	mg/L	0.0050	0.00084	1	02/28/24 13:54	03/01/24 18:49	7440-38-2	
Barium	**0.0044J**	mg/L	0.0050	0.00047	1	02/28/24 13:54	03/01/24 18:49	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/28/24 13:54	03/01/24 18:49	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	02/28/24 13:54	03/01/24 18:49	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/28/24 13:54	03/01/24 18:49	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/28/24 13:54	03/01/24 18:49	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/28/24 13:54	03/01/24 18:49	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/28/24 13:54	03/01/24 18:49	7439-92-1	
Lithium	**0.0021J**	mg/L	0.030	0.0016	1	02/28/24 13:54	03/01/24 18:49	7439-93-2	
Molybdenum	**0.0076J**	mg/L	0.010	0.00062	1	02/28/24 13:54	03/01/24 18:49	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/28/24 13:54	03/01/24 18:49	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/28/24 13:54	03/01/24 18:49	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 13:00	03/08/24 07:49	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**159**	mg/L	25.0	25.0	1		02/26/24 17:49		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**84.2**	mg/L	5.0	5.0	1		02/27/24 17:35		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/27/24 17:35		
Alkalinity, Total as CaCO3	**84.2**	mg/L	5.0	5.0	1		02/27/24 17:35		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**0.96J**	mg/L	1.0	0.60	1		02/23/24 22:09	16887-00-6	
Fluoride	**0.10**	mg/L	0.10	0.050	1		02/23/24 22:09	16984-48-8	
Sulfate	**23.1**	mg/L	1.0	0.50	1		02/23/24 22:09	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Sample: YAT-YGWA-14S **Lab ID: 92714723024** Collected: 02/23/24 11:00 Received: 02/24/24 11:33 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**0.89**	mg/L	0.50	0.15	1	02/29/24 14:43	03/04/24 18:20	7440-09-7	
Sodium	**10.1**	mg/L	1.0	0.58	1	02/29/24 14:43	03/04/24 18:20	7440-23-5	
Calcium	**1.6**	mg/L	1.0	0.12	1	02/29/24 14:43	03/04/24 18:20	7440-70-2	
Magnesium	**1.8**	mg/L	0.050	0.012	1	02/29/24 14:43	03/04/24 18:20	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/29/24 09:00	03/05/24 15:59	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/29/24 09:00	03/05/24 15:59	7440-38-2	
Barium	**0.0096**	mg/L	0.0050	0.00047	1	02/29/24 09:00	03/05/24 15:59	7440-39-3	
Beryllium	**0.00024J**	mg/L	0.00050	0.000094	1	02/29/24 09:00	03/05/24 15:59	7440-41-7	
Boron	**0.037J**	mg/L	0.040	0.012	1	02/29/24 09:00	03/05/24 15:59	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/29/24 09:00	03/05/24 15:59	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/29/24 09:00	03/05/24 15:59	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/29/24 09:00	03/05/24 15:59	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/29/24 09:00	03/05/24 15:59	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	02/29/24 09:00	03/05/24 15:59	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/29/24 09:00	03/05/24 15:59	7439-98-7	
Selenium	**0.0010J**	mg/L	0.0050	0.00096	1	02/29/24 09:00	03/05/24 15:59	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/29/24 09:00	03/05/24 15:59	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 13:00	03/08/24 07:51	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**14.4**	mg/L	5.0	5.0	1		03/05/24 17:55		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/05/24 17:55		
Alkalinity, Total as CaCO3	**14.4**	mg/L	5.0	5.0	1		03/05/24 17:55		
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		02/27/24 11:04		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.8**	mg/L	1.0	0.60	1		02/27/24 04:05	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/27/24 04:05	16984-48-8	
Sulfate	**7.1**	mg/L	1.0	0.50	1		02/27/24 04:05	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Sample: YAT-YGWA-18S **Lab ID: 92714723025** Collected: 02/23/24 09:25 Received: 02/24/24 11:33 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**0.62**	mg/L	0.50	0.15	1	02/29/24 15:04	03/04/24 15:44	7440-09-7	B
Calcium	**0.84J**	mg/L	1.0	0.12	1	02/29/24 15:04	03/04/24 15:44	7440-70-2	
Magnesium	**1.0**	mg/L	0.050	0.012	1	02/29/24 15:04	03/04/24 15:44	7439-95-4	
Sodium	**8.6**	mg/L	1.0	0.58	1	02/29/24 15:04	03/05/24 18:28	7440-23-5	M1
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/29/24 09:00	03/05/24 16:03	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/29/24 09:00	03/05/24 16:03	7440-38-2	
Barium	**0.013**	mg/L	0.0050	0.00047	1	02/29/24 09:00	03/05/24 16:03	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/29/24 09:00	03/05/24 16:03	7440-41-7	
Boron	**0.018J**	mg/L	0.040	0.012	1	02/29/24 09:00	03/05/24 16:03	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/29/24 09:00	03/05/24 16:03	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/29/24 09:00	03/05/24 16:03	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/29/24 09:00	03/05/24 16:03	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/29/24 09:00	03/05/24 16:03	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	02/29/24 09:00	03/05/24 16:03	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/29/24 09:00	03/05/24 16:03	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/29/24 09:00	03/05/24 16:03	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/29/24 09:00	03/05/24 16:03	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 13:00	03/08/24 07:59	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**8.7**	mg/L	5.0	5.0	1		03/05/24 18:01		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/05/24 18:01		
Alkalinity, Total as CaCO3	**8.7**	mg/L	5.0	5.0	1		03/05/24 18:01		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**52.0**	mg/L	25.0	25.0	1		02/27/24 11:04		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**6.6**	mg/L	1.0	0.60	1		02/27/24 04:19	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/27/24 04:19	16984-48-8	
Sulfate	**0.79J**	mg/L	1.0	0.50	1		02/27/24 04:19	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Sample: YAT-UGRD-FD-1 **Lab ID: 92714723026** Collected: 02/23/24 00:00 Received: 02/24/24 11:33 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**0.90**	mg/L	0.50	0.15	1	02/29/24 15:04	03/04/24 15:53	7440-09-7	B
Calcium	**1.6**	mg/L	1.0	0.12	1	02/29/24 15:04	03/04/24 15:53	7440-70-2	
Magnesium	**1.7**	mg/L	0.050	0.012	1	02/29/24 15:04	03/04/24 15:53	7439-95-4	
Sodium	**10.4**	mg/L	1.0	0.58	1	02/29/24 15:04	03/05/24 18:43	7440-23-5	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/29/24 09:00	03/05/24 16:06	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/29/24 09:00	03/05/24 16:06	7440-38-2	
Barium	**0.0093**	mg/L	0.0050	0.00047	1	02/29/24 09:00	03/05/24 16:06	7440-39-3	
Beryllium	**0.00024J**	mg/L	0.00050	0.000094	1	02/29/24 09:00	03/05/24 16:06	7440-41-7	
Boron	**0.027J**	mg/L	0.040	0.012	1	02/29/24 09:00	03/05/24 16:06	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/29/24 09:00	03/05/24 16:06	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/29/24 09:00	03/05/24 16:06	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/29/24 09:00	03/05/24 16:06	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/29/24 09:00	03/05/24 16:06	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	02/29/24 09:00	03/05/24 16:06	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/29/24 09:00	03/05/24 16:06	7439-98-7	
Selenium	**0.0011J**	mg/L	0.0050	0.00096	1	02/29/24 09:00	03/05/24 16:06	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/29/24 09:00	03/05/24 16:06	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 13:00	03/08/24 08:02	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**14.6**	mg/L	5.0	5.0	1		03/05/24 18:06		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/05/24 18:06		
Alkalinity, Total as CaCO3	**14.6**	mg/L	5.0	5.0	1		03/05/24 18:06		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**73.0**	mg/L	25.0	25.0	1		02/27/24 11:04		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.7**	mg/L	1.0	0.60	1		02/27/24 05:02	16887-00-6	
Fluoride	**0.055J**	mg/L	0.10	0.050	1		02/27/24 05:02	16984-48-8	
Sulfate	**7.0**	mg/L	1.0	0.50	1		02/27/24 05:02	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Sample: YAT-UGRD-FD-2 **Lab ID: 92714723027** Collected: 02/23/24 00:00 Received: 02/24/24 11:33 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**0.63**	mg/L	0.50	0.15	1	02/29/24 15:04	03/04/24 16:01	7440-09-7	B
Sodium	**9.0**	mg/L	1.0	0.58	1	02/29/24 15:04	03/04/24 16:01	7440-23-5	
Calcium	**0.87J**	mg/L	1.0	0.12	1	02/29/24 15:04	03/04/24 16:01	7440-70-2	
Magnesium	**1.0**	mg/L	0.050	0.012	1	02/29/24 15:04	03/04/24 16:01	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/29/24 09:00	03/05/24 16:10	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/29/24 09:00	03/05/24 16:10	7440-38-2	
Barium	**0.013**	mg/L	0.0050	0.00047	1	02/29/24 09:00	03/05/24 16:10	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/29/24 09:00	03/05/24 16:10	7440-41-7	
Boron	**0.012J**	mg/L	0.040	0.012	1	02/29/24 09:00	03/05/24 16:10	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/29/24 09:00	03/05/24 16:10	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/29/24 09:00	03/05/24 16:10	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/29/24 09:00	03/05/24 16:10	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/29/24 09:00	03/05/24 16:10	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	02/29/24 09:00	03/05/24 16:10	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/29/24 09:00	03/05/24 16:10	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/29/24 09:00	03/05/24 16:10	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/29/24 09:00	03/05/24 16:10	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 13:00	03/08/24 08:05	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**8.8**	mg/L	5.0	5.0	1		03/05/24 18:12		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/05/24 18:12		
Alkalinity, Total as CaCO3	**8.8**	mg/L	5.0	5.0	1		03/05/24 18:12		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**53.0**	mg/L	25.0	25.0	1		02/27/24 11:04		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**6.7**	mg/L	1.0	0.60	1		02/27/24 05:16	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/27/24 05:16	16984-48-8	
Sulfate	**0.79J**	mg/L	1.0	0.50	1		02/27/24 05:16	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 835565
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92714723001, 92714723002, 92714723003, 92714723004, 92714723005, 92714723006, 92714723007

METHOD BLANK: 4316637 Matrix: Water
Associated Lab Samples: 92714723001, 92714723002, 92714723003, 92714723004, 92714723005, 92714723006, 92714723007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	03/01/24 18:56	
Magnesium	mg/L	ND	0.050	0.012	03/01/24 18:56	
Potassium	mg/L	ND	0.50	0.15	03/01/24 18:56	
Sodium	mg/L	ND	1.0	0.58	03/01/24 18:56	

LABORATORY CONTROL SAMPLE: 4316638

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	103	80-120	
Magnesium	mg/L	1	1.0	104	80-120	
Potassium	mg/L	1	0.98	98	80-120	
Sodium	mg/L	1	1.0	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4316639 4316640

Parameter	Units	92714171017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	74.2	1	1	75.9	73.0	171	-120	75-125	4	20	M1
Magnesium	mg/L	35.5	1	1	37.1	35.6	160	10	75-125	4	20	M1
Potassium	mg/L	1.5	1	1	2.5	2.3	96	85	75-125	5	20	
Sodium	mg/L	41.2	1	1	42.6	40.9	137	-39	75-125	4	20	M1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 835581
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92714723008, 92714723010, 92714723011, 92714723012, 92714723013, 92714723014, 92714723015, 92714723016, 92714723017, 92714723019, 92714723020

METHOD BLANK: 4316732 Matrix: Water
Associated Lab Samples: 92714723008, 92714723010, 92714723011, 92714723012, 92714723013, 92714723014, 92714723015, 92714723016, 92714723017, 92714723019, 92714723020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	03/02/24 10:00	
Magnesium	mg/L	ND	0.050	0.012	03/02/24 10:00	
Potassium	mg/L	ND	0.50	0.15	03/02/24 10:00	
Sodium	mg/L	ND	1.0	0.58	03/02/24 10:00	

LABORATORY CONTROL SAMPLE: 4316733

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	103	80-120	
Magnesium	mg/L	1	1.0	104	80-120	
Potassium	mg/L	1	0.96	96	80-120	
Sodium	mg/L	1	1.1	112	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4316734 4316735

Parameter	Units	92714723008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	3.2	1	1	4.3	4.3	116	109	75-125	2	20	
Magnesium	mg/L	1.1	1	1	2.1	2.1	107	103	75-125	2	20	
Potassium	mg/L	0.36J	1	1	1.4	1.3	100	97	75-125	2	20	
Sodium	mg/L	15.0	1	1	16.1	15.8	111	81	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

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(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 835638
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92714723021, 92714723022, 92714723023

METHOD BLANK: 4317188 Matrix: Water
Associated Lab Samples: 92714723021, 92714723022, 92714723023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	03/02/24 08:40	
Magnesium	mg/L	ND	0.050	0.012	03/02/24 08:40	
Potassium	mg/L	ND	0.50	0.15	03/02/24 08:40	
Sodium	mg/L	ND	1.0	0.58	03/02/24 08:40	

LABORATORY CONTROL SAMPLE: 4317189

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.99J	99	80-120	
Magnesium	mg/L	1	1.0	100	80-120	
Potassium	mg/L	1	0.91	91	80-120	
Sodium	mg/L	1	0.97J	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4317190 4317191

Parameter	Units	92714723021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	2.2	1	1	3.2	3.2	100	101	75-125	0	20	
Magnesium	mg/L	1.0	1	1	2.0	2.1	100	104	75-125	2	20	
Potassium	mg/L	2.2	1	1	3.1	3.2	97	106	75-125	3	20	
Sodium	mg/L	5.5	1	1	6.4	6.5	92	106	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 835873
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92714723024

METHOD BLANK: 4318271 Matrix: Water
Associated Lab Samples: 92714723024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	03/04/24 17:06	
Magnesium	mg/L	ND	0.050	0.012	03/04/24 17:06	
Potassium	mg/L	ND	0.50	0.15	03/04/24 17:06	
Sodium	mg/L	ND	1.0	0.58	03/04/24 17:06	

LABORATORY CONTROL SAMPLE: 4318272

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	106	80-120	
Magnesium	mg/L	1	1.1	110	80-120	
Potassium	mg/L	1	1.1	111	80-120	
Sodium	mg/L	1	1.2	117	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4318273 4318274

Parameter	Units	92715157005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	0.78J	1	1	1.8	1.8	100	102	75-125	1	20	
Magnesium	mg/L	0.34	1	1	1.4	1.4	106	107	75-125	1	20	
Potassium	mg/L	0.30J	1	1	1.3	1.3	99	103	75-125	3	20	
Sodium	mg/L	1.0	1	1	2.0	2.0	97	101	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 835886
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92714723025, 92714723026, 92714723027

METHOD BLANK: 4318385 Matrix: Water
Associated Lab Samples: 92714723025, 92714723026, 92714723027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	03/04/24 15:38	
Magnesium	mg/L	ND	0.050	0.012	03/04/24 15:38	
Potassium	mg/L	0.19J	0.50	0.15	03/04/24 15:38	
Sodium	mg/L	ND	1.0	0.58	03/05/24 18:18	

LABORATORY CONTROL SAMPLE: 4318386

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	103	80-120	
Magnesium	mg/L	1	1.1	107	80-120	
Potassium	mg/L	1	1.1	114	80-120	
Sodium	mg/L	1	1.1	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4318387 4318388

Parameter	Units	92714723025 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	0.84J	1	1	1.9	1.8	109	99	75-125	5	20	
Magnesium	mg/L	1.0	1	1	2.1	2.0	113	103	75-125	5	20	
Potassium	mg/L	0.62	1	1	1.7	1.6	106	95	75-125	7	20	
Sodium	mg/L	8.6	1	1	10.3	9.9	169	129	75-125	4	20	M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 835521
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92714723001, 92714723002, 92714723003, 92714723004, 92714723005, 92714723006, 92714723007, 92714723008, 92714723010, 92714723011, 92714723012, 92714723013, 92714723014, 92714723015, 92714723016, 92714723017, 92714723019, 92714723020

METHOD BLANK: 4316395
Matrix: Water
Associated Lab Samples: 92714723001, 92714723002, 92714723003, 92714723004, 92714723005, 92714723006, 92714723007, 92714723008, 92714723010, 92714723011, 92714723012, 92714723013, 92714723014, 92714723015, 92714723016, 92714723017, 92714723019, 92714723020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	03/01/24 15:45	
Arsenic	mg/L	ND	0.0050	0.00084	03/01/24 15:45	
Barium	mg/L	ND	0.0050	0.00047	03/01/24 15:45	
Beryllium	mg/L	ND	0.00050	0.000094	03/01/24 15:45	
Boron	mg/L	ND	0.040	0.012	03/01/24 15:45	
Cadmium	mg/L	ND	0.00050	0.00010	03/01/24 15:45	
Chromium	mg/L	ND	0.0050	0.0019	03/01/24 15:45	
Cobalt	mg/L	ND	0.0050	0.00032	03/01/24 15:45	
Copper	mg/L	ND	0.0050	0.00043	03/01/24 15:45	
Lead	mg/L	ND	0.0010	0.00016	03/01/24 15:45	
Lithium	mg/L	ND	0.030	0.0016	03/01/24 15:45	
Molybdenum	mg/L	ND	0.010	0.00062	03/01/24 15:45	
Nickel	mg/L	ND	0.0050	0.0021	03/01/24 15:45	
Selenium	mg/L	ND	0.0050	0.00096	03/01/24 15:45	
Silver	mg/L	ND	0.0050	0.00031	03/01/24 15:45	
Thallium	mg/L	ND	0.0010	0.00038	03/01/24 15:45	
Vanadium	mg/L	ND	0.010	0.00075	03/01/24 15:45	
Zinc	mg/L	ND	0.010	0.0024	03/01/24 15:45	

LABORATORY CONTROL SAMPLE: 4316396

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	109	80-120	
Arsenic	mg/L	0.1	0.11	105	80-120	
Barium	mg/L	0.1	0.10	101	80-120	
Beryllium	mg/L	0.1	0.11	108	80-120	
Boron	mg/L	1	1.0	103	80-120	
Cadmium	mg/L	0.1	0.10	101	80-120	
Chromium	mg/L	0.1	0.10	101	80-120	
Cobalt	mg/L	0.1	0.098	98	80-120	
Copper	mg/L	0.1	0.10	101	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Lithium	mg/L	0.1	0.10	104	80-120	
Molybdenum	mg/L	0.1	0.10	103	80-120	
Nickel	mg/L	0.1	0.099	99	80-120	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

LABORATORY CONTROL SAMPLE: 4316396

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Selenium	mg/L	0.1	0.11	105	80-120	
Silver	mg/L	0.1	0.10	105	80-120	
Thallium	mg/L	0.1	0.096	96	80-120	
Vanadium	mg/L	0.1	0.10	102	80-120	
Zinc	mg/L	0.1	0.10	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4316397 4316398

Parameter	Units	92714723001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	107	108	75-125	1	20	
Arsenic	mg/L	ND	0.1	0.1	0.11	0.11	106	107	75-125	1	20	
Barium	mg/L	0.031	0.1	0.1	0.14	0.14	105	106	75-125	1	20	
Beryllium	mg/L	ND	0.1	0.1	0.099	0.10	99	100	75-125	1	20	
Boron	mg/L	0.023J	1	1	0.97	1.0	94	98	75-125	3	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	101	102	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	103	103	75-125	0	20	
Cobalt	mg/L	0.0011J	0.1	0.1	0.10	0.10	101	101	75-125	0	20	
Copper	mg/L	ND	0.1	0.1	0.10	0.10	101	100	75-125	0	20	
Lead	mg/L	ND	0.1	0.1	0.095	0.095	95	95	75-125	0	20	
Lithium	mg/L	0.0036J	0.1	0.1	0.098	0.10	95	97	75-125	2	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	101	102	75-125	0	20	
Nickel	mg/L	ND	0.1	0.1	0.10	0.10	102	102	75-125	0	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	103	104	75-125	0	20	
Silver	mg/L	ND	0.1	0.1	0.098	0.098	98	98	75-125	0	20	
Thallium	mg/L	ND	0.1	0.1	0.091	0.094	91	94	75-125	3	20	
Vanadium	mg/L	ND	0.1	0.1	0.10	0.11	104	105	75-125	1	20	
Zinc	mg/L	ND	0.1	0.1	0.11	0.10	104	102	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 835532
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92714723021, 92714723022, 92714723023

METHOD BLANK: 4316486 Matrix: Water
Associated Lab Samples: 92714723021, 92714723022, 92714723023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	03/01/24 18:20	
Arsenic	mg/L	ND	0.0050	0.00084	03/01/24 18:20	
Barium	mg/L	ND	0.0050	0.00047	03/01/24 18:20	
Beryllium	mg/L	ND	0.00050	0.000094	03/01/24 18:20	
Boron	mg/L	ND	0.040	0.012	03/01/24 18:20	
Cadmium	mg/L	ND	0.00050	0.00010	03/01/24 18:20	
Chromium	mg/L	ND	0.0050	0.0019	03/01/24 18:20	
Cobalt	mg/L	ND	0.0050	0.00032	03/01/24 18:20	
Lead	mg/L	ND	0.0010	0.00016	03/01/24 18:20	
Lithium	mg/L	ND	0.030	0.0016	03/01/24 18:20	
Molybdenum	mg/L	ND	0.010	0.00062	03/01/24 18:20	
Selenium	mg/L	ND	0.0050	0.00096	03/01/24 18:20	
Thallium	mg/L	ND	0.0010	0.00038	03/01/24 18:20	

LABORATORY CONTROL SAMPLE: 4316487

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	109	80-120	
Arsenic	mg/L	0.1	0.11	110	80-120	
Barium	mg/L	0.1	0.10	102	80-120	
Beryllium	mg/L	0.1	0.11	108	80-120	
Boron	mg/L	1	1.0	104	80-120	
Cadmium	mg/L	0.1	0.099	99	80-120	
Chromium	mg/L	0.1	0.099	99	80-120	
Cobalt	mg/L	0.1	0.096	96	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Lithium	mg/L	0.1	0.10	104	80-120	
Molybdenum	mg/L	0.1	0.10	103	80-120	
Selenium	mg/L	0.1	0.10	104	80-120	
Thallium	mg/L	0.1	0.095	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4316488 4316489

Parameter	Units	92714723021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	108	106	75-125	2	20	
Arsenic	mg/L	ND	0.1	0.1	0.11	0.11	108	105	75-125	3	20	

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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4316488 4316489

Parameter	Units	92714723021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.0040J	0.1	0.1	0.11	0.11	105	102	75-125	3	20	
Beryllium	mg/L	ND	0.1	0.1	0.10	0.10	103	100	75-125	3	20	
Boron	mg/L	0.014J	1	1	1.0	0.99	98	98	75-125	0	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	100	100	75-125	0	20	
Chromium	mg/L	ND	0.1	0.1	0.097	0.095	97	94	75-125	2	20	
Cobalt	mg/L	0.0018J	0.1	0.1	0.098	0.093	96	92	75-125	5	20	
Lead	mg/L	ND	0.1	0.1	0.10	0.099	101	99	75-125	2	20	
Lithium	mg/L	ND	0.1	0.1	0.10	0.098	100	98	75-125	3	20	
Molybdenum	mg/L	0.030	0.1	0.1	0.13	0.13	103	98	75-125	4	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	104	104	75-125	0	20	
Thallium	mg/L	ND	0.1	0.1	0.097	0.096	97	96	75-125	1	20	

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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 835671
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92714723024, 92714723025, 92714723026, 92714723027

METHOD BLANK: 4317361 Matrix: Water
Associated Lab Samples: 92714723024, 92714723025, 92714723026, 92714723027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	03/05/24 14:25	
Arsenic	mg/L	ND	0.0050	0.00084	03/05/24 14:25	
Barium	mg/L	ND	0.0050	0.00047	03/05/24 14:25	
Beryllium	mg/L	ND	0.00050	0.000094	03/05/24 14:25	
Boron	mg/L	ND	0.040	0.012	03/05/24 14:25	
Cadmium	mg/L	ND	0.00050	0.00010	03/05/24 14:25	
Chromium	mg/L	ND	0.0050	0.0019	03/05/24 14:25	
Cobalt	mg/L	ND	0.0050	0.00032	03/05/24 14:25	
Lead	mg/L	ND	0.0010	0.00016	03/05/24 14:25	
Lithium	mg/L	ND	0.030	0.0016	03/05/24 14:25	
Molybdenum	mg/L	ND	0.010	0.00062	03/05/24 14:25	
Selenium	mg/L	ND	0.0050	0.00096	03/05/24 14:25	
Thallium	mg/L	ND	0.0010	0.00038	03/05/24 14:25	

LABORATORY CONTROL SAMPLE: 4317362

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	104	80-120	
Arsenic	mg/L	0.1	0.10	101	80-120	
Barium	mg/L	0.1	0.10	100	80-120	
Beryllium	mg/L	0.1	0.11	105	80-120	
Boron	mg/L	1	1.0	103	80-120	
Cadmium	mg/L	0.1	0.10	101	80-120	
Chromium	mg/L	0.1	0.10	101	80-120	
Cobalt	mg/L	0.1	0.10	101	80-120	
Lead	mg/L	0.1	0.10	101	80-120	
Lithium	mg/L	0.1	0.11	106	80-120	
Molybdenum	mg/L	0.1	0.10	100	80-120	
Selenium	mg/L	0.1	0.10	101	80-120	
Thallium	mg/L	0.1	0.099	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4317363 4317364

Parameter	Units	92715031012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	103	105	75-125	2	20	
Arsenic	mg/L	0.0011J	0.1	0.1	0.11	0.11	104	107	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4317363 4317364

Parameter	Units	92715031012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.035	0.1	0.1	0.14	0.14	101	104	75-125	2	20	
Beryllium	mg/L	0.00013J	0.1	0.1	0.091	0.092	91	92	75-125	1	20	
Boron	mg/L	6.7	1	1	7.6	7.6	89	87	75-125	0	20	
Cadmium	mg/L	0.00022J	0.1	0.1	0.10	0.10	102	104	75-125	2	20	
Chromium	mg/L	ND	0.1	0.1	0.11	0.11	105	107	75-125	2	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.11	103	106	75-125	3	20	
Lead	mg/L	ND	0.1	0.1	0.094	0.095	94	95	75-125	1	20	
Lithium	mg/L	0.014J	0.1	0.1	0.11	0.11	92	94	75-125	2	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	100	104	75-125	4	20	
Selenium	mg/L	0.053	0.1	0.1	0.16	0.16	102	105	75-125	2	20	
Thallium	mg/L	ND	0.1	0.1	0.093	0.095	93	95	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 837274
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92714723001, 92714723002, 92714723003, 92714723004, 92714723005, 92714723006, 92714723007, 92714723008, 92714723010, 92714723011, 92714723012, 92714723013, 92714723014, 92714723015, 92714723016, 92714723017, 92714723019, 92714723020, 92714723021, 92714723022

METHOD BLANK: 4325320 Matrix: Water
Associated Lab Samples: 92714723001, 92714723002, 92714723003, 92714723004, 92714723005, 92714723006, 92714723007, 92714723008, 92714723010, 92714723011, 92714723012, 92714723013, 92714723014, 92714723015, 92714723016, 92714723017, 92714723019, 92714723020, 92714723021, 92714723022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	03/07/24 14:39	

LABORATORY CONTROL SAMPLE: 4325321

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4325322 4325323

Parameter	Units	92714723002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0023	0.0026	90	101	75-125	11	20	

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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 837279
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92714723023, 92714723024, 92714723025, 92714723026, 92714723027

METHOD BLANK: 4325334 Matrix: Water
Associated Lab Samples: 92714723023, 92714723024, 92714723025, 92714723026, 92714723027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	03/07/24 16:06	

LABORATORY CONTROL SAMPLE: 4325335

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4325336 4325337

Parameter	Units	92714726001 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	0.0023	103	93	75-125	10	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 834938
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92714723001

METHOD BLANK: 4313586 Matrix: Water
Associated Lab Samples: 92714723001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/26/24 14:42	

LABORATORY CONTROL SAMPLE: 4313587

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	379	95	80-120	

SAMPLE DUPLICATE: 4313588

Parameter	Units	92714128003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	73.0	80.0	9	10	

SAMPLE DUPLICATE: 4313589

Parameter	Units	92715006001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	107	103	4	10	

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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 834943
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92714723002, 92714723003, 92714723004, 92714723005, 92714723006, 92714723007, 92714723008, 92714723010, 92714723011, 92714723012, 92714723013, 92714723014, 92714723015, 92714723016, 92714723017, 92714723019, 92714723020, 92714723021

METHOD BLANK: 4313607 Matrix: Water
Associated Lab Samples: 92714723002, 92714723003, 92714723004, 92714723005, 92714723006, 92714723007, 92714723008, 92714723010, 92714723011, 92714723012, 92714723013, 92714723014, 92714723015, 92714723016, 92714723017, 92714723019, 92714723020, 92714723021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/26/24 15:44	

LABORATORY CONTROL SAMPLE: 4313608

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	369	92	80-120	

SAMPLE DUPLICATE: 4313609

Parameter	Units	92714723002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	214	199	7	10	

SAMPLE DUPLICATE: 4313610

Parameter	Units	92714723012 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	53.0		10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 835037
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92714723022, 92714723023

METHOD BLANK: 4314052 Matrix: Water
Associated Lab Samples: 92714723022, 92714723023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/26/24 17:48	

LABORATORY CONTROL SAMPLE: 4314053

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	398	100	80-120	

SAMPLE DUPLICATE: 4314054

Parameter	Units	92714723022 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	130	204	44	10	D6

SAMPLE DUPLICATE: 4314055

Parameter	Units	92715006008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	301	315	5	10	

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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 834611
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92714723001, 92714723002

METHOD BLANK: 4312116 Matrix: Water
Associated Lab Samples: 92714723001, 92714723002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/23/24 13:34	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/23/24 13:34	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/23/24 13:34	

LABORATORY CONTROL SAMPLE: 4312117

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: 4312118

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4312119 4312120

Parameter	Units	92714723001 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	36.4	50	50	87.1	86.4	101	100	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4312121 4312122

Parameter	Units	92714723002 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	73.5	50	50	120	121	94	95	80-120	1	25	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 834663
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92714723003, 92714723004, 92714723005, 92714723006, 92714723007, 92714723008, 92714723010, 92714723011, 92714723012, 92714723013, 92714723014, 92714723015, 92714723016, 92714723017, 92714723019, 92714723020, 92714723021

METHOD BLANK: 4312306 Matrix: Water
Associated Lab Samples: 92714723003, 92714723004, 92714723005, 92714723006, 92714723007, 92714723008, 92714723010, 92714723011, 92714723012, 92714723013, 92714723014, 92714723015, 92714723016, 92714723017, 92714723019, 92714723020, 92714723021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/23/24 18:26	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/23/24 18:26	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/23/24 18:26	

LABORATORY CONTROL SAMPLE: 4312307

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

LABORATORY CONTROL SAMPLE: 4312308

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4312309 4312310

Parameter	Units	92714723020 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	24.7	50	50	75.3	72.2	101	95	80-120	4	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4312311 4312312

Parameter	Units	92714723021 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	17.9	50	50	66.6	67.4	97	99	80-120	1	25	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 835154
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92714723022, 92714723023

METHOD BLANK: 4314543 Matrix: Water
Associated Lab Samples: 92714723022, 92714723023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/27/24 14:12	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/27/24 14:12	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/27/24 14:12	

LABORATORY CONTROL SAMPLE: 4314544

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

LABORATORY CONTROL SAMPLE: 4314545

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.5	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4314546 4314547

Parameter	Units	92715006001 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	75.0	50	50	128	127	105	105	80-120	0	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4314548 4314549

Parameter	Units	92715006002 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	222	50	50	269	276	94	108	80-120	3	25	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 836772
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92714723024, 92714723025, 92714723026, 92714723027

METHOD BLANK: 4322081 Matrix: Water
Associated Lab Samples: 92714723024, 92714723025, 92714723026, 92714723027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	03/05/24 16:25	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	03/05/24 16:25	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	03/05/24 16:25	

LABORATORY CONTROL SAMPLE: 4322082

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: 4322083

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4322084 4322085

Parameter	Units	92715031014 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	51.1	102	102	80-120	0	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4322086 4322087

Parameter	Units	92715031015 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	35.5	50	50	69.4	70.2	68	69	80-120	1	25	M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 835155
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: 92714723024, 92714723025, 92714723026, 92714723027

METHOD BLANK: 4314552 Matrix: Water
Associated Lab Samples: 92714723024, 92714723025, 92714723026, 92714723027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/27/24 11:02	

LABORATORY CONTROL SAMPLE: 4314553

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

SAMPLE DUPLICATE: 4314554

Parameter	Units	92715255001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	160	164	2	25	

SAMPLE DUPLICATE: 4314555

Parameter	Units	92715247002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	802	770	4	25	

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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 834454
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: 92714723001, 92714723002, 92714723003, 92714723004, 92714723005, 92714723006, 92714723007, 92714723008, 92714723010, 92714723011, 92714723012, 92714723013, 92714723014

METHOD BLANK: 4311474 Matrix: Water
Associated Lab Samples: 92714723001, 92714723002, 92714723003, 92714723004, 92714723005, 92714723006, 92714723007, 92714723008, 92714723010, 92714723011, 92714723012, 92714723013, 92714723014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/23/24 11:17	
Fluoride	mg/L	ND	0.10	0.050	02/23/24 11:17	
Sulfate	mg/L	ND	1.0	0.50	02/23/24 11:17	

LABORATORY CONTROL SAMPLE: 4311475

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.7	101	90-110	
Fluoride	mg/L	2.5	2.7	106	90-110	
Sulfate	mg/L	50	51.0	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4311476 4311477

Parameter	Units	92714957014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	46.5	50	50	96.7	98.2	100	103	90-110	2	10	
Fluoride	mg/L	0.055J	2.5	2.5	2.7	2.8	107	109	90-110	2	10	
Sulfate	mg/L	0.83J	50	50	51.5	52.9	101	104	90-110	3	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4311478 4311479

Parameter	Units	92714723005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	3.2	50	50	53.7	54.0	101	102	90-110	1	10	
Fluoride	mg/L	0.076J	2.5	2.5	2.4	2.4	93	95	90-110	1	10	
Sulfate	mg/L	5.1	50	50	55.7	56.1	101	102	90-110	1	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 834455
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: 92714723015, 92714723016, 92714723017, 92714723019, 92714723020, 92714723021, 92714723022, 92714723023

METHOD BLANK: 4311480 Matrix: Water
Associated Lab Samples: 92714723015, 92714723016, 92714723017, 92714723019, 92714723020, 92714723021, 92714723022, 92714723023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/23/24 18:42	
Fluoride	mg/L	ND	0.10	0.050	02/23/24 18:42	
Sulfate	mg/L	ND	1.0	0.50	02/23/24 18:42	

LABORATORY CONTROL SAMPLE: 4311481

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.4	103	90-110	
Fluoride	mg/L	2.5	2.5	101	90-110	
Sulfate	mg/L	50	51.4	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4311482 4311483

Parameter	Units	92714723015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1.4	50	50	52.2	52.3	101	102	90-110	0	10	
Fluoride	mg/L	0.051J	2.5	2.5	2.5	2.5	98	99	90-110	0	10	
Sulfate	mg/L	0.69J	50	50	51.4	51.4	101	101	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4311484 4311485

Parameter	Units	92714726002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1.6	50	50	52.5	53.3	102	103	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.7	2.7	105	106	90-110	1	10	
Sulfate	mg/L	916	50	50	968	975	106	118	90-110	1	10	M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 835036
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: 92714723024

METHOD BLANK: 4314044 Matrix: Water
Associated Lab Samples: 92714723024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/26/24 18:32	
Fluoride	mg/L	ND	0.10	0.050	02/26/24 18:32	
Sulfate	mg/L	ND	1.0	0.50	02/26/24 18:32	

LABORATORY CONTROL SAMPLE: 4314045

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.5	101	90-110	
Fluoride	mg/L	2.5	2.6	102	90-110	
Sulfate	mg/L	50	50.7	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4314046 4314047

Parameter	Units	92712009007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	4.9	50	50	55.6	56.1	101	103	90-110	1	10	
Fluoride	mg/L	0.36	2.5	2.5	2.9	2.9	101	101	90-110	0	10	
Sulfate	mg/L	4.6	50	50	55.6	56.1	102	103	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4314048 4314049

Parameter	Units	92715031013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	50	50	50.9	50.7	102	101	90-110	0	10	
Fluoride	mg/L	ND	2.5	2.5	2.7	2.5	109	101	90-110	7	10	
Sulfate	mg/L	ND	50	50	51.1	50.7	102	101	90-110	1	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 835038
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: 92714723025, 92714723026, 92714723027

METHOD BLANK: 4314060 Matrix: Water
Associated Lab Samples: 92714723025, 92714723026, 92714723027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/26/24 19:00	
Fluoride	mg/L	ND	0.10	0.050	02/26/24 19:00	
Sulfate	mg/L	ND	1.0	0.50	02/26/24 19:00	

LABORATORY CONTROL SAMPLE: 4314061

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	52.9	106	90-110	
Fluoride	mg/L	2.5	2.5	100	90-110	
Sulfate	mg/L	50	50.6	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4314062 4314063

Parameter	Units	92714723025 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	6.6	50	50	57.7	59.0	102	105	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.7	2.7	105	107	90-110	2	10	
Sulfate	mg/L	0.79J	50	50	51.7	53.0	102	104	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4314064 4314065

Parameter	Units	92715031020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.2	50	50	56.4	57.6	102	105	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.6	101	103	90-110	2	10	
Sulfate	mg/L	241	50	50	282	285	82	87	90-110	1	10	M1

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

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

B	Analyte was detected in the associated method blank.
D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92714723001	**YAT-YGWA-47**	EPA 3010A	835565	EPA 6010D	835656
92714723002	**YAT-GWA-2**	EPA 3010A	835565	EPA 6010D	835656
92714723003	**YAT-YGWA-4I**	EPA 3010A	835565	EPA 6010D	835656
92714723004	**YAT-YGWA-5I**	EPA 3010A	835565	EPA 6010D	835656
92714723005	**YAT-YGWA-5D**	EPA 3010A	835565	EPA 6010D	835656
92714723006	**YAT-YGWA-20S**	EPA 3010A	835565	EPA 6010D	835656
92714723007	**YAT-YGWA-21I**	EPA 3010A	835565	EPA 6010D	835656
92714723008	**YAT-YGWA-17S**	EPA 3010A	835581	EPA 6010D	835658
92714723010	**YAT-YGWA-18I**	EPA 3010A	835581	EPA 6010D	835658
92714723011	**YAT-UGRD-EB-1**	EPA 3010A	835581	EPA 6010D	835658
92714723012	**YAT-UGRD-FB-1**	EPA 3010A	835581	EPA 6010D	835658
92714723013	**YAT-UGRD-EB-2**	EPA 3010A	835581	EPA 6010D	835658
92714723014	**YAT-UGRD-FB-2**	EPA 3010A	835581	EPA 6010D	835658
92714723015	**YAT-YGWA-30I**	EPA 3010A	835581	EPA 6010D	835658
92714723016	**YAT-YGWA-3I**	EPA 3010A	835581	EPA 6010D	835658
92714723017	**YAT-YGWA-3D**	EPA 3010A	835581	EPA 6010D	835658
92714723019	**YAT-YGWA-39**	EPA 3010A	835581	EPA 6010D	835658
92714723020	**YAT-YGWA-40**	EPA 3010A	835581	EPA 6010D	835658
92714723021	**YAT-YGWA-1I**	EPA 3010A	835638	EPA 6010D	835688
92714723022	**YAT-YGWA-1D**	EPA 3010A	835638	EPA 6010D	835688
92714723023	**YAT-YGWA-2I**	EPA 3010A	835638	EPA 6010D	835688
92714723024	**YAT-YGWA-14S**	EPA 3010A	835873	EPA 6010D	835959
92714723025	**YAT-YGWA-18S**	EPA 3010A	835886	EPA 6010D	835961
92714723026	**YAT-UGRD-FD-1**	EPA 3010A	835886	EPA 6010D	835961
92714723027	**YAT-UGRD-FD-2**	EPA 3010A	835886	EPA 6010D	835961
92714723001	**YAT-YGWA-47**	EPA 3005A	835521	EPA 6020B	835651
92714723002	**YAT-GWA-2**	EPA 3005A	835521	EPA 6020B	835651
92714723003	**YAT-YGWA-4I**	EPA 3005A	835521	EPA 6020B	835651
92714723004	**YAT-YGWA-5I**	EPA 3005A	835521	EPA 6020B	835651
92714723005	**YAT-YGWA-5D**	EPA 3005A	835521	EPA 6020B	835651
92714723006	**YAT-YGWA-20S**	EPA 3005A	835521	EPA 6020B	835651
92714723007	**YAT-YGWA-21I**	EPA 3005A	835521	EPA 6020B	835651
92714723008	**YAT-YGWA-17S**	EPA 3005A	835521	EPA 6020B	835651
92714723010	**YAT-YGWA-18I**	EPA 3005A	835521	EPA 6020B	835651
92714723011	**YAT-UGRD-EB-1**	EPA 3005A	835521	EPA 6020B	835651
92714723012	**YAT-UGRD-FB-1**	EPA 3005A	835521	EPA 6020B	835651
92714723013	**YAT-UGRD-EB-2**	EPA 3005A	835521	EPA 6020B	835651
92714723014	**YAT-UGRD-FB-2**	EPA 3005A	835521	EPA 6020B	835651
92714723015	**YAT-YGWA-30I**	EPA 3005A	835521	EPA 6020B	835651
92714723016	**YAT-YGWA-3I**	EPA 3005A	835521	EPA 6020B	835651
92714723017	**YAT-YGWA-3D**	EPA 3005A	835521	EPA 6020B	835651
92714723019	**YAT-YGWA-39**	EPA 3005A	835521	EPA 6020B	835651
92714723020	**YAT-YGWA-40**	EPA 3005A	835521	EPA 6020B	835651
92714723021	**YAT-YGWA-1I**	EPA 3005A	835532	EPA 6020B	835652
92714723022	**YAT-YGWA-1D**	EPA 3005A	835532	EPA 6020B	835652
92714723023	**YAT-YGWA-2I**	EPA 3005A	835532	EPA 6020B	835652

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92714723024	**YAT-YGWA-14S**	EPA 3005A	835671	EPA 6020B	835903
92714723025	**YAT-YGWA-18S**	EPA 3005A	835671	EPA 6020B	835903
92714723026	**YAT-UGRD-FD-1**	EPA 3005A	835671	EPA 6020B	835903
92714723027	**YAT-UGRD-FD-2**	EPA 3005A	835671	EPA 6020B	835903
92714723001	**YAT-YGWA-47**	EPA 7470A	837274	EPA 7470A	837419
92714723002	**YAT-GWA-2**	EPA 7470A	837274	EPA 7470A	837419
92714723003	**YAT-YGWA-4I**	EPA 7470A	837274	EPA 7470A	837419
92714723004	**YAT-YGWA-5I**	EPA 7470A	837274	EPA 7470A	837419
92714723005	**YAT-YGWA-5D**	EPA 7470A	837274	EPA 7470A	837419
92714723006	**YAT-YGWA-20S**	EPA 7470A	837274	EPA 7470A	837419
92714723007	**YAT-YGWA-21I**	EPA 7470A	837274	EPA 7470A	837419
92714723008	**YAT-YGWA-17S**	EPA 7470A	837274	EPA 7470A	837419
92714723010	**YAT-YGWA-18I**	EPA 7470A	837274	EPA 7470A	837419
92714723011	**YAT-UGRD-EB-1**	EPA 7470A	837274	EPA 7470A	837419
92714723012	**YAT-UGRD-FB-1**	EPA 7470A	837274	EPA 7470A	837419
92714723013	**YAT-UGRD-EB-2**	EPA 7470A	837274	EPA 7470A	837419
92714723014	**YAT-UGRD-FB-2**	EPA 7470A	837274	EPA 7470A	837419
92714723015	**YAT-YGWA-30I**	EPA 7470A	837274	EPA 7470A	837419
92714723016	**YAT-YGWA-3I**	EPA 7470A	837274	EPA 7470A	837419
92714723017	**YAT-YGWA-3D**	EPA 7470A	837274	EPA 7470A	837419
92714723019	**YAT-YGWA-39**	EPA 7470A	837274	EPA 7470A	837419
92714723020	**YAT-YGWA-40**	EPA 7470A	837274	EPA 7470A	837419
92714723021	**YAT-YGWA-1I**	EPA 7470A	837274	EPA 7470A	837419
92714723022	**YAT-YGWA-1D**	EPA 7470A	837274	EPA 7470A	837419
92714723023	**YAT-YGWA-2I**	EPA 7470A	837279	EPA 7470A	837426
92714723024	**YAT-YGWA-14S**	EPA 7470A	837279	EPA 7470A	837426
92714723025	**YAT-YGWA-18S**	EPA 7470A	837279	EPA 7470A	837426
92714723026	**YAT-UGRD-FD-1**	EPA 7470A	837279	EPA 7470A	837426
92714723027	**YAT-UGRD-FD-2**	EPA 7470A	837279	EPA 7470A	837426
92714723001	**YAT-YGWA-47**	SM 2540C-2015	834938		
92714723002	**YAT-GWA-2**	SM 2540C-2015	834943		
92714723003	**YAT-YGWA-4I**	SM 2540C-2015	834943		
92714723004	**YAT-YGWA-5I**	SM 2540C-2015	834943		
92714723005	**YAT-YGWA-5D**	SM 2540C-2015	834943		
92714723006	**YAT-YGWA-20S**	SM 2540C-2015	834943		
92714723007	**YAT-YGWA-21I**	SM 2540C-2015	834943		
92714723008	**YAT-YGWA-17S**	SM 2540C-2015	834943		
92714723010	**YAT-YGWA-18I**	SM 2540C-2015	834943		
92714723011	**YAT-UGRD-EB-1**	SM 2540C-2015	834943		
92714723012	**YAT-UGRD-FB-1**	SM 2540C-2015	834943		
92714723013	**YAT-UGRD-EB-2**	SM 2540C-2015	834943		
92714723014	**YAT-UGRD-FB-2**	SM 2540C-2015	834943		
92714723015	**YAT-YGWA-30I**	SM 2540C-2015	834943		
92714723016	**YAT-YGWA-3I**	SM 2540C-2015	834943		
92714723017	**YAT-YGWA-3D**	SM 2540C-2015	834943		
92714723019	**YAT-YGWA-39**	SM 2540C-2015	834943		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92714723020	**YAT-YGWA-40**	SM 2540C-2015	834943		
92714723021	**YAT-YGWA-1I**	SM 2540C-2015	834943		
92714723022	**YAT-YGWA-1D**	SM 2540C-2015	835037		
92714723023	**YAT-YGWA-2I**	SM 2540C-2015	835037		
92714723001	**YAT-YGWA-47**	SM 2320B-2011	834611		
92714723002	**YAT-GWA-2**	SM 2320B-2011	834611		
92714723003	**YAT-YGWA-4I**	SM 2320B-2011	834663		
92714723004	**YAT-YGWA-5I**	SM 2320B-2011	834663		
92714723005	**YAT-YGWA-5D**	SM 2320B-2011	834663		
92714723006	**YAT-YGWA-20S**	SM 2320B-2011	834663		
92714723007	**YAT-YGWA-21I**	SM 2320B-2011	834663		
92714723008	**YAT-YGWA-17S**	SM 2320B-2011	834663		
92714723010	**YAT-YGWA-18I**	SM 2320B-2011	834663		
92714723011	**YAT-UGRD-EB-1**	SM 2320B-2011	834663		
92714723012	**YAT-UGRD-FB-1**	SM 2320B-2011	834663		
92714723013	**YAT-UGRD-EB-2**	SM 2320B-2011	834663		
92714723014	**YAT-UGRD-FB-2**	SM 2320B-2011	834663		
92714723015	**YAT-YGWA-30I**	SM 2320B-2011	834663		
92714723016	**YAT-YGWA-3I**	SM 2320B-2011	834663		
92714723017	**YAT-YGWA-3D**	SM 2320B-2011	834663		
92714723019	**YAT-YGWA-39**	SM 2320B-2011	834663		
92714723020	**YAT-YGWA-40**	SM 2320B-2011	834663		
92714723021	**YAT-YGWA-1I**	SM 2320B-2011	834663		
92714723022	**YAT-YGWA-1D**	SM 2320B-2011	835154		
92714723023	**YAT-YGWA-2I**	SM 2320B-2011	835154		
92714723024	**YAT-YGWA-14S**	SM 2320B-2011	836772		
92714723025	**YAT-YGWA-18S**	SM 2320B-2011	836772		
92714723026	**YAT-UGRD-FD-1**	SM 2320B-2011	836772		
92714723027	**YAT-UGRD-FD-2**	SM 2320B-2011	836772		
92714723024	**YAT-YGWA-14S**	SM 2540C-2015	835155		
92714723025	**YAT-YGWA-18S**	SM 2540C-2015	835155		
92714723026	**YAT-UGRD-FD-1**	SM 2540C-2015	835155		
92714723027	**YAT-UGRD-FD-2**	SM 2540C-2015	835155		
92714723001	**YAT-YGWA-47**	EPA 300.0 Rev 2.1 1993	834454		
92714723002	**YAT-GWA-2**	EPA 300.0 Rev 2.1 1993	834454		
92714723003	**YAT-YGWA-4I**	EPA 300.0 Rev 2.1 1993	834454		
92714723004	**YAT-YGWA-5I**	EPA 300.0 Rev 2.1 1993	834454		
92714723005	**YAT-YGWA-5D**	EPA 300.0 Rev 2.1 1993	834454		
92714723006	**YAT-YGWA-20S**	EPA 300.0 Rev 2.1 1993	834454		
92714723007	**YAT-YGWA-21I**	EPA 300.0 Rev 2.1 1993	834454		
92714723008	**YAT-YGWA-17S**	EPA 300.0 Rev 2.1 1993	834454		
92714723010	**YAT-YGWA-18I**	EPA 300.0 Rev 2.1 1993	834454		
92714723011	**YAT-UGRD-EB-1**	EPA 300.0 Rev 2.1 1993	834454		
92714723012	**YAT-UGRD-FB-1**	EPA 300.0 Rev 2.1 1993	834454		
92714723013	**YAT-UGRD-EB-2**	EPA 300.0 Rev 2.1 1993	834454		

REPORT OF LABORATORY ANALYSIS

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.: 92714723

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92714723014	**YAT-UGRD-FB-2**	EPA 300.0 Rev 2.1 1993	834454		
92714723015	**YAT-YGWA-30I**	EPA 300.0 Rev 2.1 1993	834455		
92714723016	**YAT-YGWA-3I**	EPA 300.0 Rev 2.1 1993	834455		
92714723017	**YAT-YGWA-3D**	EPA 300.0 Rev 2.1 1993	834455		
92714723019	**YAT-YGWA-39**	EPA 300.0 Rev 2.1 1993	834455		
92714723020	**YAT-YGWA-40**	EPA 300.0 Rev 2.1 1993	834455		
92714723021	**YAT-YGWA-1I**	EPA 300.0 Rev 2.1 1993	834455		
92714723022	**YAT-YGWA-1D**	EPA 300.0 Rev 2.1 1993	834455		
92714723023	**YAT-YGWA-2I**	EPA 300.0 Rev 2.1 1993	834455		
92714723024	**YAT-YGWA-14S**	EPA 300.0 Rev 2.1 1993	835036		
92714723025	**YAT-YGWA-18S**	EPA 300.0 Rev 2.1 1993	835038		
92714723026	**YAT-UGRD-FD-1**	EPA 300.0 Rev 2.1 1993	835038		
92714723027	**YAT-UGRD-FD-2**	EPA 300.0 Rev 2.1 1993	835038		

Pace	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

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

Sample Condition Upon Receipt

Client Name: Ga Power

Project #:

WO# : 92714723

92714723

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: 7/11/24 SH

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

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

Thermometer:
☑ IR Gun ID: 730

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.3 **Correction Factor:** Add/Subtract (°C): -0.1

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

Cooler Temp Corrected (°C): 4.4

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

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)? 7/11 SH	☐ 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: WW	☑ 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:** _____

WO#: 92714723

Project #

PM: BV Due Date: 03/07/24

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

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)	Vials	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1																			X				
2		2	1			1																			X				
3		2	1			1																			X				
4		2	1			1																			X				
5		2	1			1																			X				
6		2	1			1																			X				
7		2	1			1																			X				
8		2	1			1																			X				
9		2	1			1																			X				
10																									2				
11																													
12																													

pH Adjustment Log for Preserved Samples

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

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

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

CHAIN-OF-CUSTODY Analytical Request Document

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

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

92714723

Company Name:	Southern Company	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2024S1	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: Standard TAT

DW PWSID # or WW Permit # as applicable:

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

Analysis:

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

Specify Container Size **: 3 3 2 1 3

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

Analysis Requested

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

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

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

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	App I/II Metals	Sample Comment	Preservation non-conformance identified for sample
YAT-YGWA-47	WG	G	2/20/24	1030				6		X	X	X	X	X		See Remarks 001	
YAT-GWA-2	WG	G	2/20/24	1150				6		X	X	X	X	X	X	See Remarks 002	
YAT-YGWA-4I	WG	G						6		X	X	X	X	X		See Remarks	
YAT-YGWA-5I	WG	G						6		X	X	X	X	X		See Remarks	
YAT-YGWA-5D	WG	G						6		X	X	X	X	X		See Remarks	
YAT-YGWA-17S	WG	G						6		X	X	X	X	X		See Remarks	
YAT-YGWA-18S	WG	G						6		X	X	X	X	X		See Remarks	
YAT-YGWA-18I	WG	G						6		X	X	X	X	X		See Remarks	
YAT-YGWA-20S	WG	G						6		X	X	X	X	X		See Remarks	
YAT-YGWA-21I	WG	G						6		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): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) Jake Swanson
Signature: (Arcadis)

Additional instructions from Pace®:

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

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
/Arcadis	2/20/24 / 1730	/Arcadis	2/20/24 / 1730	
/Arcadis	2/21/24 1220	Ryan Williams / Pace	2/21/24 1220	Delivered by: [ ] In Person [ ] Courier
Ryan Williams / Pace	2/21/24 1512		2/21/24 1512	[ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

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:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202451	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: STANDARD TAT

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)	App III Metals	Sample Comment	Preservation non-conformance identified for sample
YAT-YGWA-47	WG	G						6		X	X	X	X	X		See Remarks	
YAT-GWA-2	WG	G						6		X	X	X	X	X	X	See Remarks	
YAT-YGWA-4I	WG	G	2/20/24	1110	—	—		6		X	X	X	X	X		See Remarks 003	
YAT-YGWA-5I	WG	G	2/20/24	1218	—	—		6		X	X	X	X	X		See Remarks 004	
YAT-YGWA-5D	WG	G	2/20/24	1325	—	—		6		X	X	X	X	X		See Remarks 005	
YAT-YGWA-17S	WG	G						6		X	X	X	X	X		See Remarks	
YAT-YGWA-18S	WG	G						6		X	X	X	X	X		See Remarks	
YAT-YGWA-18I	WG	G						6		X	X	X	X	X		See Remarks	
YAT-YGWA-20S	WG	G	2/20/24	1440	—	—		6		X	X	X	X	X		See Remarks 006	
YAT-YGWA-21I	WG	G	2/20/24	1635	—	—		6		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): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - KIM LIAPSUNSKI
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:
[illegible] / ARCADIS	2/21/24 0810	[illegible] / Arcadis	2/21/24 0810	
[illegible] / Arcadis	2/21/24 1220	Ryan Williams / Pace	2/21/24 1220	Delivered by: [ ] In-Person [ ] Courier
Ryan Williams / Pace	2/21/24 1512	[illegible]	2/21/24 1512	[ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 1 of 2

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:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2024S1	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT Pooled Upgradient	Purchase Order # (if applicable):	GPCS2474-0002
		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: Standard TAT

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)	App I/II Metals	Sample Comment	Preservation non conformance identified for sample
Specify Container Size **										3	3	2	1	3			
Identify Container Preservative Type***										2	1	1	2	1			
Analysis Requested																	
YAT-YGWA-47	WG	G						6		X	X	X	X	X		See Remarks	
YAT-GWA-2	WG	G						6		X	X	X	X	X	X	See Remarks	
YAT-YGWA-4I	WG	G						6		X	X	X	X	X		See Remarks	
YAT-YGWA-5I	WG	G						6		X	X	X	X	X		See Remarks	
YAT-YGWA-5D	WG	G						6		X	X	X	X	X		See Remarks	
YAT-YGWA-17S	WG	G	2/20/24	1037				6		X	X	X	X	X		See Remarks 008	
YAT-YGWA-18S	WG	G	2/20/24	1152				6		X	X	X	X	X		See Remarks 009	
YAT-YGWA-18I	WG	G	2/20/24	1248				6		X	X	X	X	X		See Remarks 010	
YAT-YGWA-20S	WG	G						6		X	X	X	X	X		See Remarks	
YAT-YGWA-21I	WG	G						6		X	X	X	X	X		See Remarks	

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

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

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

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): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

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

Additional Instructions from Pace®:

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

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Jessica Ware / Arcadis	2/21/24 0725	Matt Lee / Arcadis	2/21/24 0725	
Matt Lee / Arcadis	2/21/24 1220	Ryan Williams / Pace	2/21/24 1226	Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other
Ryan Williams / Pace	2/21/24 1512		2/21/24 1512	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 1 of 3

Pace	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

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

Sample Condition Upon Receipt

Client Name: Ga Pace

Project #: **WO#: 92714723**

PM: BV Due Date: 03/07/24
CLIENT: 92-GP-Yates

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

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

Date/Initials Person Examining Contents: 7/11/24 SH

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

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

Thermometer: ☑ IR Gun ID: 730 Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.3 Correction Factor: Add/Subtract (°C): -0.1

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

Cooler Temp Corrected (°C): 4.2

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

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)? 7/11 SH	☐ 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: WW	☑ 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:

Pace	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

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

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project # **WO#: 92714723**

PM: BV Due Date: 03/07/24

CLIENT: 92-GP-Yates

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)	BP1N	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1																		2					
2		2	1			1																		2					
3		2	1			1																		2					
4		2	1			1																		2					
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202451	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: GPC Standard

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), Coulk

Specify Container Size **: 3 3 2 1 3
Identify Container Preservative Type***: 2 1 1 2 1
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Bonnie Vang
Acct#Num / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

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	2/20/24	1715	–	–	–	6		X	X	X	X	X	See Remarks 011	
YAT-UGRD-FB-1	WG	G	2/20/24	1535	–	–	–	6		X	X	X	X	X	See Remarks 012	
YAT-UGRD-EB-2	WG	G						6		X	X	X	X	X	See Remarks	
YAT-UGRD-FB-2	WG	G						6		X	X	X	X	X	See Remarks	
YAT-UGRD-FD-1	WG	G						6		X	X	X	X	X	See Remarks	
YAT-UGRD-FD-2	WG	G						6		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): Ca, Na, K, Mg: For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) · Mark Chest
Signature: (Arcadis)

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature) Mark Chest / Arcadis	Date/Time: 2/21/24 1220	Received by/Company: (Signature) Lyan Williams / Pace	Date/Time: 2/21/24 1220	Tracking Number:
Relinquished by/Company: (Signature) Lyan Williams / Pace	Date/Time: 2/21/24 1512	Received by/Company: (Signature)	Date/Time: 2/21/24 1512	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: 2 of 2

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:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2024S1	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:	Standard
		DW PWSID # or WW Permit # as applicable:	
		Field Filtered (if applicable): [ ] Yes [X] No	
		Analysis:	

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), 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						6		X	X	X	X	X	See Remarks	
YAT-UGRD-FB-1	WG	G						6		X	X	X	X	X	See Remarks	
YAT-UGRD-EB-2	WG	G	2/20/24	1555				6		X	X	X	X	X	See Remarks 013	
YAT-UGRD-FB-2	WG	G						6		X	X	X	X	X	See Remarks	
YAT-UGRD-FD-1	WG	G						6		X	X	X	X	X	See Remarks	
YAT-UGRD-FD-2	WG	G						6		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): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) Jessica Ware
Signature: (Arcadis) Jessica Ware

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature) Jessica Ware / Arcadis	Date/Time: 2/21/24 0725	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Relinquished by/Company: (Signature) / Arcadis	Date/Time: 2/21/24 1220	Received by/Company: (Signature) Ryan Williams / Pace	Date/Time: 2/21/24 1220	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature) Ryan Williams / Pace	Date/Time: 2/21/24 1512	Received by/Company: (Signature)	Date/Time: 2/21/24 1512	Page: 3 of 3
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	

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:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2024S1	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: STANDARD TAT

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						6		X	X	X	X	X	See Remarks	
YAT-UGRD-FB-1	WG	G						6		X	X	X	X	X	See Remarks	
YAT-UGRD-EB-2	WG	G						6		X	X	X	X	X	See Remarks	
YAT-UGRD-FB-2	WG	G	2/20/24	1700	—	—		6		X	X	X	X	X	See Remarks 014	
YAT-UGRD-FD-1	WG	G						6		X	X	X	X	X	See Remarks	
YAT-UGRD-FD-2	WG	G						6		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): Ca, 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:	Tracking Number:
ARCADIS	2/21/24 0810	Arcadis	2/21/24 0810	
Arcadis	2/21/24 1220	Ryan Williams / Pace	2/21/24 1220	Delivered by: [ ] In- Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Ryan Williams / Pace	2/21/24 1512		2/21/24 1512	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 2 of 2

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	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Gr Power

Project #: WO#: 92714723

PM: BV Due Date: 03/07/24
CLIENT: 92-GP-Yates

Courier: ☐ Commercial ☐ Fed Ex ☑ Pace ☐ UPS ☐ USPS ☐ Other:____ ☐ Client

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 7/11/24 SG

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☐ N/A

Thermometer: ☑ IR Gun ID: 730 Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.3 Correction Factor: Add/Subtract (°C) -0.1

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 4.2

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)? 7/11 5:61	☐ 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: WT				
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:

Qualtrax ID: 69614

Pace	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project # **WO#:92714723**

PM: BV Due Date: 03/07/24

CLIENT: 92-GP-Yates

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)	13PLIN	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1																			X				
2		2	1			1																			X				
3		2	1			1																			X				
4		2	1			1																			X				
5		2	1			1																			X				
6		2	1			1																			X				
7		2	1			1																			X				
8		2	1			1																			X				
9		2	1			1	X																		X				
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202451	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: Standard

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 (Specify Container Size ** : 3)	Cl, F, SO4 (EPA 300.0) (3)	TDS (SM 2540C) (2)	RAD SW846 9315/8320 (1)	Alkalinity (SM2320B) (3)	Sample Comment
YAT-YGWA-30I	WG	G	2/20/24	1625				6		X	X	X	X	X	See Remarks 015
YAT-YGWA-14S	WG	G						6		X	X	X	X	X	See Remarks
YAT-YGWA-39	WG	G						6		X	X	X	X	X	See Remarks
YAT-YGWA-40	WG	G						6		X	X	X	X	X	See Remarks
YAT-YGWA-1I	WG	G						6		X	X	X	X	X	See Remarks
YAT-YGWA-1D	WG	G						6		X	X	X	X	X	See Remarks
YAT-YGWA-2I	WG	G						6		X	X	X	X	X	See Remarks
YAT-YGWA-3I	WG	G	2/20/24	1350				6		X	X	X	X	X	See Remarks 016
YAT-YGWA-3D	WG	G	2/20/24	1135				6		X	X	X	X	X	See Remarks 017
			~~2/20/24~~	~~1135~~											

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): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) -
Signature: (Arcadis) David Pratt

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Arcadis	2/21/24 0810	Arcadis	2/21/24 0810	
Arcadis	2/21/24 1220	Pace	2/21/24 1220	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Pace	2/21/24 1512		2/21/24	Page: 1 of 1

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

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LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name: Southern Company
Street Address: 241 Ralph McGill Blvd, Atlanta, GA 30308

Contact/Report To: Lauren Hartley
Phone #: 470-620-6176
E-Mail: laucoker@southernco.com
Cc E-Mail: Arcadis contacts
Invoice To:
Invoice E-Mail:

Customer Project #: Task No. YAT-CCR-ASSMT-2024S1
Project Name: Georgia Power Yates

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: Standard
DW PWSID # or WW Permit # as applicable:
Field Filtered (if applicable): [ ] Yes [X] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 | 3 | 2 | 1 | 3
Identify Container Preservative Type ***: 2 | 1 | 1 | 2 | 1
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other
*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Customer Sample ID	Matrix *	Comp / Grab	Collected Date	Collected Time	Composite End Date	Composite End Time	Res. Cl2	Plastic	Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/9320	Alkalinity (SM2320B)	Sample Comment	Preservation non-conformance identified for sample
YAT-YGWA-30I	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-14S	WG	G	2/20/24	1701				6		X	X	X	X	X	See Remarks 018	
YAT-YGWA-39	WG	G	2/20/24	1358				6		X	X	X	X	X	See Remarks 019	
YAT-YGWA-40	WG	G	2/20/24	1510				6		X	X	X	X	X	See Remarks 020	
YAT-YGWA-1I	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-1D	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-2I	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-3I	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-3D	WG	G						6		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): Ca, 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:
[signature] /Arcadis	2/21/24 0725	[signature] /Arcadis	2/21/24 0725
[signature] /Arcadis	2/21/24 1220	Ryan Williams /Pace	2/21/24 1220
Ryan Williams / Pace	2/21/24 1512	[signature]	2/21/24 1517

Tracking Number:
Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other

Page: 2 of 3

Pace® Location Requested (City/State): Pace Analytical Charlotte, 9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

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LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202451	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: Std Standard

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), 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						6		X	X	X	X	X	See Remarks	
YAT-YGWA-14S	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-39	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-40	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-1I	WG	G	2/20/24	1202	—	—	—	6		X	X	X	X	X	See Remarks 021	
YAT-YGWA-1D	WG	G	2/20/24	1324	—	—	—	6		X	X	X	X	X	See Remarks 022	
YAT-YGWA-2I	WG	G	2/20/24	1602	—	—	—	6		X	X	X	X	X	See Remarks 023	
YAT-YGWA-3I	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-3D	WG	G						6		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): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By: Printed Name: (Arcadis) Mark Chest; Signature: (Arcadis)

Additional Instructions from Pace®:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Arcadis	2/21/24 1220	Ryan Williams / Pace	2/21/24 1220	
Ryan Williams / Pace	2/21/24 1512		2/21/24 1512	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: 1 of 2

Pace

DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt

Effective Date: 12/01/2023

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Southern Company - GA Power

Project #: **WO# : 92714723**

PM: BV Due Date: 03/07/24

CLIENT: 92-GP-Yates

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: [illegible]

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.3 Correction Factor: Add/Subtract (°C) +0.1

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 4.4

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WG	☐ Yes	☐ No	☐ N/A	9.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project # WO#: 92714723

PM: BV Due Date: 03/07/24

CLIENT: 92-GP-Yates

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)	BPIN	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1																			2				
2																													
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

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

92714723

Company Name:	Southern Company	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2024S1	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: Standard TAT

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3
Identify Container Preservative Type***: 2 1 1 2 1
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment	Preservation non-conformance identified for sample.
YAT-YGWA-30I	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-14S	WG	G	2/23/24	1100				6		X	X	X	X	X	See Remarks 024	
YAT-YGWA-39	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-40	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-1I	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-1D	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-2I	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-3I	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-3D	WG	G						6		X	X	X	X	X	See Remarks	

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl, 7040A: Hg.
Additional metals (6010D): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - David Prouty
Signature: (Arcadis)

Additional Instructions from Pace®:
Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
	2/23/24 1230	Jessica Dow / Arcadis	2/23/24 1230	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In- Person [ ] Courier
	2/24/24 1133	MTW	2/24/24 1133	[ ] 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: 1 of 1

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Southern Company - GA Power

Project #:

WO# : 92714723

PM: BV Due Date: 03/07/24

CLIENT: 92-GP-Yates

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☒ No Seals Intact? ☐ Yes ☐ No ☒ N/A

Date/Initials Person Examining Contents:

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A

Thermometer: ☐ IR Gun ID: 230 Type of Ice: ☒ Wet ☐ Blue ☐ None

Cooler Temp: 4.3 Correction Factor: Add/Subtract (°C) +0.1

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 4.4

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☒ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☒ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☒ No	☐ N/A	4.
Sufficient Volume?	☒ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☒ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☒ Yes	☐ No	☐ N/A	
Containers Intact?	☐ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☒ N/A	8.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WG	☐ Yes	☐ No	☐ N/A	9.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☒ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☒ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☒ N/A	

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Pace	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project # **WO# : 92714723**

PM: BV Due Date: 03/07/24

CLIENT: 92-GP-Yates

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)	1360 IN	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1																			2				
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

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:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202451	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: Standard TAT

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	App I/II Metals	Sample Comment
YAT-YGWA-47	WG	G						6		X	X	X	X	X		See Remarks
YAT-GWA-2	WG	G						6		X	X	X	X	X	X	See Remarks
YAT-YGWA-4I	WG	G						6		X	X	X	X	X		See Remarks
YAT-YGWA-5I	WG	G						6		X	X	X	X	X		See Remarks
YAT-YGWA-5D	WG	G						6		X	X	X	X	X		See Remarks
YAT-YGWA-17S	WG	G						6		X	X	X	X	X		See Remarks
YAT-YGWA-18S	WG	G	2/23/24	0925				6		X	X	X	X	X		See Remarks 025
YAT-YGWA-18I	WG	G						6		X	X	X	X	X		See Remarks
YAT-YGWA-20S	WG	G						6		X	X	X	X	X		See Remarks
YAT-YGWA-21I	WG	G						6		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): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) David Routh
Signature: (Arcadis)

Additional Instructions from Pace®:

Cooler	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:
	2/23/24 1230	Jordan Cox /Arcadis	2/23/24 1230	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In-Person [ ] Courier
Jordan Cox /Arcadis	2/24/24 1133	MAW	2/24/24 1133	[ ] 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/

Pace

DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt

Effective Date: 12/01/2023

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Southern Company - GA Power

Project #:

WO#: 92714723

PM: BV **Due Date: 03/07/24**

CLIENT: 92-GP-Yates

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☒ No Seals Intact? ☐ Yes ☐ No ☒ N/A Date/Initials Person Examining Contents:

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A

Thermometer: ☐ IR Gun ID: 230 Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.3 Correction Factor: Add/Subtract (°C) +0.1

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 4.4

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☒ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☒ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☒ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☒ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☒ N/A	8.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WG	☐ Yes	☐ No	☐ N/A	9.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☒ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☒ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☒ N/A	

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

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)	BPIN	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace® Lab 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	Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPC32474-0002
		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, NCAA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested: Standard TAT

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) MeOH, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) NaOH, (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						6		X	X	X	X	X	See Remarks
YAT-UGRD-FB-1	WG	G						6		X	X	X	X	X	See Remarks
YAT-UGRD-EB-2	WG	G						6		X	X	X	X	X	See Remarks
YAT-UGRD-FB-2	WG	G	2/23/24					6		X	X	X	X	X	See Remarks
YAT-UGRD-FD-1	WG	G	2/23/24					6		X	X	X	X	X	See Remarks 0526
YAT-UGRD-FD-2	WG	G	2/23/24					6		X	X	X	X	X	See Remarks 0527

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type ***: 2 1 1 2 1

Analysis Requested

Lab Use Only: Proj. Mgr: Bonnie Vang; Accolum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non-conformance identified for samples

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): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:

Printed Name: (Arcadis)

Signature: (Arcadis)

Additional Instructions from Pace®:

# Coolers	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

	Date/Time	Received by/Company: (Signature)	Date/Time	Tracking Number:
Relinquished by/Company: (Signature)	2/23/24 1250	Received by/Company: (Signature) Arcadis	2/23/24 1230	
Relinquished by/Company: (Signature)	2/24/24 1133	Received by/Company: (Signature)	2/24/24 1133	Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 1 of 1
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

March 21, 2024

Lauren Hartley
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Dear Lauren Hartley:

Enclosed are the analytical results for sample(s) received by the laboratory between February 21, 2024 and February 24, 2024. 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
Becky Steever, Arcadis
Jessica Ware, Arcadis
Albert Zumbuhl, Arcadis

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

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

Pace Analytical Services, LLC
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SAMPLE SUMMARY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92714724001	**YAT-YGWA-47**	Water	02/20/24 10:30	02/21/24 15:12
92714724002	**YAT-GWA-2**	Water	02/20/24 11:50	02/21/24 15:12
92714724003	**YAT-YGWA-4I**	Water	02/20/24 11:10	02/21/24 15:12
92714724004	**YAT-YGWA-5I**	Water	02/20/24 12:18	02/21/24 15:12
92714724005	**YAT-YGWA-5D**	Water	02/20/24 13:25	02/21/24 15:12
92714724006	**YAT-YGWA-20S**	Water	02/20/24 14:40	02/21/24 15:12
92714724007	**YAT-YGWA-21I**	Water	02/20/24 16:38	02/21/24 15:12
92714724008	**YAT-YGWA-17S**	Water	02/20/24 10:37	02/21/24 15:12
92714724010	**YAT-YGWA-18I**	Water	02/20/24 12:48	02/21/24 15:12
92714724011	**YAT-UGRD-EB-1**	Water	02/20/24 17:15	02/21/24 15:12
92714724012	**YAT-UGRD-FB-1**	Water	02/20/24 15:35	02/21/24 15:12
92714724013	**YAT-UGRD-EB-2**	Water	02/20/24 15:55	02/21/24 15:12
92714724014	**YAT-UGRD-FB-2**	Water	02/20/24 17:00	02/21/24 15:12
92714724015	**YAT-YGWA-30I**	Water	02/20/24 16:25	02/21/24 15:12
92714724016	**YAT-YGWA-3I**	Water	02/20/24 13:50	02/21/24 15:12
92714724017	**YAT-YGWA-3D**	Water	02/20/24 11:35	02/21/24 15:12
92714724019	**YAT-YGWA-39**	Water	02/20/24 13:58	02/21/24 15:12
92714724020	**YAT-YGWA-40**	Water	02/20/24 15:10	02/21/24 15:12
92714724021	**YAT-YGWA-1I**	Water	02/20/24 12:02	02/21/24 15:12
92714724022	**YAT-YGWA-1D**	Water	02/20/24 13:24	02/21/24 15:12
92714724023	**YAT-YGWA-2I**	Water	02/20/24 16:02	02/21/24 15:12
92714724024	**YAT-YGWA-14S**	Water	02/23/24 11:00	02/24/24 11:33
92714724025	**YAT-YGWA-18S**	Water	02/23/24 09:25	02/24/24 11:33
92714724026	**YAT-UGRD-FD-1**	Water	02/23/24 00:00	02/24/24 11:33
92714724027	**YAT-UGRD-FD-2**	Water	02/23/24 00:00	02/24/24 11:33

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92714724001	**YAT-YGWA-47**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92714724002	**YAT-GWA-2**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92714724003	**YAT-YGWA-4I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92714724004	**YAT-YGWA-5I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92714724005	**YAT-YGWA-5D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92714724006	**YAT-YGWA-20S**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92714724007	**YAT-YGWA-21I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92714724008	**YAT-YGWA-17S**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92714724010	**YAT-YGWA-18I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92714724011	**YAT-UGRD-EB-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92714724012	**YAT-UGRD-FB-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92714724013	**YAT-UGRD-EB-2**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92714724014	**YAT-UGRD-FB-2**	EPA 9315	SLC	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92714724015	**YAT-YGWA-30I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92714724016	**YAT-YGWA-3I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92714724017	**YAT-YGWA-3D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92714724019	**YAT-YGWA-39**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92714724020	**YAT-YGWA-40**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92714724021	**YAT-YGWA-1I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92714724022	**YAT-YGWA-1D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92714724023	**YAT-YGWA-2I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92714724024	**YAT-YGWA-14S**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92714724025	**YAT-YGWA-18S**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92714724026	**YAT-UGRD-FD-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92714724027	**YAT-UGRD-FD-2**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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SUMMARY OF DETECTION

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92714724001	**YAT-YGWA-47**					
EPA 9315	Radium-226	0.277 ± 0.175 (0.267) C:86% T:NA	pCi/L		03/15/24 08:19	
EPA 9320	Radium-228	0.662U ± 0.432 (0.822) C:73% T:82%	pCi/L		03/11/24 12:57	
Total Radium Calculation	Total Radium	0.939U ± 0.607 (1.09)	pCi/L		03/15/24 11:17	
92714724002	**YAT-GWA-2**					
EPA 9315	Radium-226	0.356 ± 0.211 (0.337) C:81% T:NA	pCi/L		03/15/24 08:19	
EPA 9320	Radium-228	0.622U ± 0.472 (0.938) C:73% T:81%	pCi/L		03/11/24 12:57	
Total Radium Calculation	Total Radium	0.978U ± 0.683 (1.28)	pCi/L		03/15/24 11:17	
92714724003	**YAT-YGWA-4I**					
EPA 9315	Radium-226	0.710 ± 0.275 (0.319) C:84% T:NA	pCi/L		03/15/24 08:19	
EPA 9320	Radium-228	0.393U ± 0.395 (0.815) C:73% T:84%	pCi/L		03/11/24 12:57	
Total Radium Calculation	Total Radium	1.10U ± 0.670 (1.13)	pCi/L		03/15/24 11:17	
92714724004	**YAT-YGWA-5I**					
EPA 9315	Radium-226	0.0401U ± 0.124 (0.302) C:92% T:NA	pCi/L		03/15/24 08:19	
EPA 9320	Radium-228	0.590U ± 0.404 (0.784) C:75% T:92%	pCi/L		03/11/24 12:54	
Total Radium Calculation	Total Radium	0.630U ± 0.528 (1.09)	pCi/L		03/15/24 11:17	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92714724005	**YAT-YGWA-5D**					
EPA 9315	Radium-226	1.96 ± 0.483 (0.315) C:89% T:NA	pCi/L		03/15/24 08:20	
EPA 9320	Radium-228	0.837 ± 0.430 (0.760) C:77% T:83%	pCi/L		03/11/24 12:57	
Total Radium Calculation	Total Radium	2.80 ± 0.913 (1.08)	pCi/L		03/15/24 11:17	
92714724006	**YAT-YGWA-20S**					
EPA 9315	Radium-226	-0.00558U ± 0.129 (0.343) C:94% T:NA	pCi/L		03/15/24 08:20	
EPA 9320	Radium-228	0.165U ± 0.377 (0.836) C:73% T:87%	pCi/L		03/11/24 12:57	
Total Radium Calculation	Total Radium	0.165U ± 0.506 (1.18)	pCi/L		03/15/24 11:17	
92714724007	**YAT-YGWA-21I**					
EPA 9315	Radium-226	0.483 ± 0.227 (0.300) C:88% T:NA	pCi/L		03/15/24 08:20	
EPA 9320	Radium-228	0.707U ± 0.415 (0.774) C:78% T:86%	pCi/L		03/11/24 12:57	
Total Radium Calculation	Total Radium	1.19 ± 0.642 (1.07)	pCi/L		03/15/24 11:17	
92714724008	**YAT-YGWA-17S**					
EPA 9315	Radium-226	0.0387U ± 0.120 (0.294) C:92% T:NA	pCi/L		03/15/24 08:21	
EPA 9320	Radium-228	-0.238U ± 0.300 (0.744) C:75% T:92%	pCi/L		03/11/24 12:57	
Total Radium Calculation	Total Radium	0.0387U ± 0.420 (1.04)	pCi/L		03/15/24 11:17	

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SUMMARY OF DETECTION

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92714724010	**YAT-YGWA-18I**					
EPA 9315	Radium-226	0.0680U ± 0.138 (0.320) C:95% T:NA	pCi/L		03/15/24 08:21	
EPA 9320	Radium-228	-0.0722U ± 0.333 (0.787) C:77% T:86%	pCi/L		03/11/24 12:58	
Total Radium Calculation	Total Radium	0.0680U ± 0.471 (1.11)	pCi/L		03/15/24 11:17	
92714724011	**YAT-UGRD-EB-1**					
EPA 9315	Radium-226	0.0362U ± 0.126 (0.309) C:90% T:NA	pCi/L		03/15/24 08:21	
EPA 9320	Radium-228	0.275U ± 0.327 (0.688) C:78% T:83%	pCi/L		03/11/24 12:53	
Total Radium Calculation	Total Radium	0.311U ± 0.453 (0.997)	pCi/L		03/15/24 11:17	
92714724012	**YAT-UGRD-FB-1**					
EPA 9315	Radium-226	-0.0510U ± 0.118 (0.352) C:82% T:NA	pCi/L		03/15/24 08:21	
EPA 9320	Radium-228	0.508U ± 0.327 (0.600) C:77% T:83%	pCi/L		03/11/24 12:53	
Total Radium Calculation	Total Radium	0.508U ± 0.445 (0.952)	pCi/L		03/15/24 11:17	
92714724013	**YAT-UGRD-EB-2**					
EPA 9315	Radium-226	-0.0129U ± 0.0985 (0.288) C:92% T:NA	pCi/L		03/15/24 08:21	
EPA 9320	Radium-228	0.311U ± 0.303 (0.615) C:76% T:84%	pCi/L		03/11/24 12:53	
Total Radium Calculation	Total Radium	0.311U ± 0.402 (0.903)	pCi/L		03/15/24 11:17	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92714724014	**YAT-UGRD-FB-2**					
EPA 9315	Radium-226	0.0596U ± 0.177 (0.426) C:80% T:NA	pCi/L		03/15/24 08:22	
EPA 9320	Radium-228	0.583U ± 0.369 (0.686) C:75% T:82%	pCi/L		03/11/24 12:53	
Total Radium Calculation	Total Radium	0.643U ± 0.546 (1.11)	pCi/L		03/15/24 11:17	
92714724015	**YAT-YGWA-30I**					
EPA 9315	Radium-226	0.136U ± 0.141 (0.278) C:92% T:NA	pCi/L		03/15/24 08:22	
EPA 9320	Radium-228	0.239U ± 0.383 (0.831) C:79% T:86%	pCi/L		03/11/24 12:53	
Total Radium Calculation	Total Radium	0.375U ± 0.524 (1.11)	pCi/L		03/15/24 11:17	
92714724016	**YAT-YGWA-3I**					
EPA 9315	Radium-226	0.738 ± 0.284 (0.332) C:85% T:NA	pCi/L		03/15/24 08:22	
EPA 9320	Radium-228	0.354U ± 0.372 (0.773) C:78% T:87%	pCi/L		03/11/24 12:54	
Total Radium Calculation	Total Radium	1.09U ± 0.656 (1.11)	pCi/L		03/15/24 11:17	
92714724017	**YAT-YGWA-3D**					
EPA 9315	Radium-226	0.951 ± 0.308 (0.287) C:94% T:NA	pCi/L		03/15/24 08:22	
EPA 9320	Radium-228	1.61 ± 0.553 (0.815) C:79% T:91%	pCi/L		03/11/24 12:54	
Total Radium Calculation	Total Radium	2.56 ± 0.861 (1.10)	pCi/L		03/15/24 11:17	

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SUMMARY OF DETECTION

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92714724019	**YAT-YGWA-39**					
EPA 9315	Radium-226	0.215U ± 0.193 (0.375) C:82% T:NA	pCi/L		03/15/24 08:22	
EPA 9320	Radium-228	0.486U ± 0.459 (0.935) C:70% T:80%	pCi/L		03/11/24 16:47	
Total Radium Calculation	Total Radium	0.701U ± 0.652 (1.31)	pCi/L		03/15/24 11:17	
92714724020	**YAT-YGWA-40**					
EPA 9315	Radium-226	0.135U ± 0.131 (0.245) C:92% T:NA	pCi/L		03/15/24 08:22	
EPA 9320	Radium-228	0.302U ± 0.391 (0.828) C:71% T:81%	pCi/L		03/11/24 16:48	
Total Radium Calculation	Total Radium	0.437U ± 0.522 (1.07)	pCi/L		03/15/24 11:17	
92714724021	**YAT-YGWA-1I**					
EPA 9315	Radium-226	0.0994U ± 0.165 (0.369) C:93% T:NA	pCi/L		03/11/24 08:28	
EPA 9320	Radium-228	0.699U ± 0.445 (0.827) C:72% T:83%	pCi/L		03/11/24 16:48	
Total Radium Calculation	Total Radium	0.798U ± 0.610 (1.20)	pCi/L		03/14/24 16:49	
92714724022	**YAT-YGWA-1D**					
EPA 9315	Radium-226	0.120U ± 0.165 (0.356) C:91% T:NA	pCi/L		03/11/24 08:28	
EPA 9320	Radium-228	0.154U ± 0.422 (0.945) C:75% T:78%	pCi/L		03/11/24 16:48	
Total Radium Calculation	Total Radium	0.274U ± 0.587 (1.30)	pCi/L		03/14/24 16:49	

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SUMMARY OF DETECTION

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92714724023	**YAT-YGWA-2I**					
EPA 9315	Radium-226	-0.0626U ± 0.144 (0.431) C:76% T:NA	pCi/L		03/11/24 08:28	
EPA 9320	Radium-228	0.784 ± 0.420 (0.733) C:78% T:82%	pCi/L		03/11/24 16:48	
Total Radium Calculation	Total Radium	0.784U ± 0.564 (1.16)	pCi/L		03/14/24 16:49	
92714724024	**YAT-YGWA-14S**					
EPA 9315	Radium-226	0.0389U ± 0.116 (0.281) C:88% T:NA	pCi/L		03/18/24 10:09	
EPA 9320	Radium-228	0.697U ± 0.457 (0.876) C:75% T:84%	pCi/L		03/13/24 16:05	
Total Radium Calculation	Total Radium	0.736U ± 0.573 (1.16)	pCi/L		03/18/24 15:39	
92714724025	**YAT-YGWA-18S**					
EPA 9315	Radium-226	0.0497U ± 0.0978 (0.226) C:93% T:NA	pCi/L		03/18/24 10:09	
EPA 9320	Radium-228	0.268U ± 0.346 (0.735) C:77% T:86%	pCi/L		03/13/24 16:05	
Total Radium Calculation	Total Radium	0.318U ± 0.444 (0.961)	pCi/L		03/18/24 15:39	
92714724026	**YAT-UGRD-FD-1**					
EPA 9315	Radium-226	-0.00856U ± 0.0756 (0.220) C:92% T:NA	pCi/L		03/18/24 10:09	
EPA 9320	Radium-228	-0.0242U ± 0.378 (0.882) C:76% T:84%	pCi/L		03/13/24 16:06	
Total Radium Calculation	Total Radium	0.000U ± 0.454 (1.10)	pCi/L		03/18/24 15:39	

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SUMMARY OF DETECTION

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92714724027	**YAT-UGRD-FD-2**					
EPA 9315	Radium-226	0.0205U ± 0.0772 (0.198) C:93% T:NA	pCi/L		03/18/24 08:39	
EPA 9320	Radium-228	0.107U ± 0.449 (1.02) C:72% T:83%	pCi/L		03/13/24 16:03	
Total Radium Calculation	Total Radium	0.128U ± 0.526 (1.22)	pCi/L		03/18/24 15:39	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Sample: YAT-YGWA-47 **Lab ID: 92714724001** Collected: 02/20/24 10:30 Received: 02/21/24 15:12 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	**0.277 ± 0.175 (0.267) C:86% T:NA**	pCi/L	03/15/24 08:19	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.662U ± 0.432 (0.822) C:73% T:82%**	pCi/L	03/11/24 12:57	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.939U ± 0.607 (1.09)**	pCi/L	03/15/24 11:17	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Sample: YAT-GWA-2 **Lab ID: 92714724002** Collected: 02/20/24 11:50 Received: 02/21/24 15:12 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	**0.356 ± 0.211 (0.337) C:81% T:NA**	pCi/L	03/15/24 08:19	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.622U ± 0.472 (0.938) C:73% T:81%**	pCi/L	03/11/24 12:57	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.978U ± 0.683 (1.28)**	pCi/L	03/15/24 11:17	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Sample: YAT-YGWA-4I **Lab ID: 92714724003** Collected: 02/20/24 11:10 Received: 02/21/24 15:12 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	**0.710 ± 0.275 (0.319) C:84% T:NA**	pCi/L	03/15/24 08:19	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.393U ± 0.395 (0.815) C:73% T:84%**	pCi/L	03/11/24 12:57	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.10U ± 0.670 (1.13)**	pCi/L	03/15/24 11:17	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Sample: YAT-YGWA-5I **Lab ID: 92714724004** Collected: 02/20/24 12:18 Received: 02/21/24 15:12 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	**0.0401U ± 0.124 (0.302) C:92% T:NA**	pCi/L	03/15/24 08:19	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.590U ± 0.404 (0.784) C:75% T:92%**	pCi/L	03/11/24 12:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.630U ± 0.528 (1.09)**	pCi/L	03/15/24 11:17	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Sample: YAT-YGWA-5D **Lab ID: 92714724005** Collected: 02/20/24 13:25 Received: 02/21/24 15:12 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	**1.96 ± 0.483 (0.315) C:89% T:NA**	pCi/L	03/15/24 08:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.837 ± 0.430 (0.760) C:77% T:83%**	pCi/L	03/11/24 12:57	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.80 ± 0.913 (1.08)**	pCi/L	03/15/24 11:17	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Sample: YAT-YGWA-20S **Lab ID: 92714724006** Collected: 02/20/24 14:40 Received: 02/21/24 15:12 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	**-0.00558U ± 0.129 (0.343) C:94% T:NA**	pCi/L	03/15/24 08:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.165U ± 0.377 (0.836) C:73% T:87%**	pCi/L	03/11/24 12:57	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.165U ± 0.506 (1.18)**	pCi/L	03/15/24 11:17	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Sample: YAT-YGWA-21I **Lab ID: 92714724007** Collected: 02/20/24 16:38 Received: 02/21/24 15:12 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	**0.483 ± 0.227 (0.300) C:88% T:NA**	pCi/L	03/15/24 08:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.707U ± 0.415 (0.774) C:78% T:86%**	pCi/L	03/11/24 12:57	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.19 ± 0.642 (1.07)**	pCi/L	03/15/24 11:17	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Sample: YAT-YGWA-17S **Lab ID: 92714724008** Collected: 02/20/24 10:37 Received: 02/21/24 15:12 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	**0.0387U ± 0.120 (0.294) C:92% T:NA**	pCi/L	03/15/24 08:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.238U ± 0.300 (0.744) C:75% T:92%**	pCi/L	03/11/24 12:57	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.0387U ± 0.420 (1.04)**	pCi/L	03/15/24 11:17	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Sample: YAT-YGWA-18I **Lab ID: 92714724010** Collected: 02/20/24 12:48 Received: 02/21/24 15:12 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	**0.0680U ± 0.138 (0.320) C:95% T:NA**	pCi/L	03/15/24 08:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.0722U ± 0.333 (0.787) C:77% T:86%**	pCi/L	03/11/24 12:58	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.0680U ± 0.471 (1.11)**	pCi/L	03/15/24 11:17	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Sample: YAT-UGRD-EB-1 **Lab ID: 92714724011** Collected: 02/20/24 17:15 Received: 02/21/24 15:12 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	**0.0362U ± 0.126 (0.309) C:90% T:NA**	pCi/L	03/15/24 08:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.275U ± 0.327 (0.688) C:78% T:83%**	pCi/L	03/11/24 12:53	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.311U ± 0.453 (0.997)**	pCi/L	03/15/24 11:17	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Sample: YAT-UGRD-FB-1 **Lab ID: 92714724012** Collected: 02/20/24 15:35 Received: 02/21/24 15:12 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	**-0.0510U ± 0.118 (0.352) C:82% T:NA**	pCi/L	03/15/24 08:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.508U ± 0.327 (0.600) C:77% T:83%**	pCi/L	03/11/24 12:53	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.508U ± 0.445 (0.952)**	pCi/L	03/15/24 11:17	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Sample: YAT-UGRD-EB-2 **Lab ID: 92714724013** Collected: 02/20/24 15:55 Received: 02/21/24 15:12 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**-0.0129U ± 0.0985 (0.288) C:92% T:NA**	pCi/L	03/15/24 08:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.311U ± 0.303 (0.615) C:76% T:84%**	pCi/L	03/11/24 12:53	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.311U ± 0.402 (0.903)**	pCi/L	03/15/24 11:17	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Sample: YAT-UGRD-FB-2 **Lab ID: 92714724014** Collected: 02/20/24 17:00 Received: 02/21/24 15:12 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	**0.0596U ± 0.177 (0.426) C:80% T:NA**	pCi/L	03/15/24 08:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.583U ± 0.369 (0.686) C:75% T:82%**	pCi/L	03/11/24 12:53	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.643U ± 0.546 (1.11)**	pCi/L	03/15/24 11:17	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Sample: YAT-YGWA-30I **Lab ID: 92714724015** Collected: 02/20/24 16:25 Received: 02/21/24 15:12 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	**0.136U ± 0.141 (0.278) C:92% T:NA**	pCi/L	03/15/24 08:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.239U ± 0.383 (0.831) C:79% T:86%**	pCi/L	03/11/24 12:53	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.375U ± 0.524 (1.11)**	pCi/L	03/15/24 11:17	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Sample: YAT-YGWA-3I **Lab ID: 92714724016** Collected: 02/20/24 13:50 Received: 02/21/24 15:12 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	**0.738 ± 0.284 (0.332) C:85% T:NA**	pCi/L	03/15/24 08:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.354U ± 0.372 (0.773) C:78% T:87%**	pCi/L	03/11/24 12:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.09U ± 0.656 (1.11)**	pCi/L	03/15/24 11:17	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Sample: YAT-YGWA-3D **Lab ID: 92714724017** Collected: 02/20/24 11:35 Received: 02/21/24 15:12 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	**0.951 ± 0.308 (0.287) C:94% T:NA**	pCi/L	03/15/24 08:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.61 ± 0.553 (0.815) C:79% T:91%**	pCi/L	03/11/24 12:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.56 ± 0.861 (1.10)**	pCi/L	03/15/24 11:17	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Sample: YAT-YGWA-39 **Lab ID: 92714724019** Collected: 02/20/24 13:58 Received: 02/21/24 15:12 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	**0.215U ± 0.193 (0.375) C:82% T:NA**	pCi/L	03/15/24 08:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.486U ± 0.459 (0.935) C:70% T:80%**	pCi/L	03/11/24 16:47	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.701U ± 0.652 (1.31)**	pCi/L	03/15/24 11:17	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Sample: YAT-YGWA-40 **Lab ID: 92714724020** Collected: 02/20/24 15:10 Received: 02/21/24 15:12 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	**0.135U ± 0.131 (0.245) C:92% T:NA**	pCi/L	03/15/24 08:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.302U ± 0.391 (0.828) C:71% T:81%**	pCi/L	03/11/24 16:48	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.437U ± 0.522 (1.07)**	pCi/L	03/15/24 11:17	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Sample: YAT-YGWA-1I **Lab ID: 92714724021** Collected: 02/20/24 12:02 Received: 02/21/24 15:12 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	**0.0994U ± 0.165 (0.369) C:93% T:NA**	pCi/L	03/11/24 08:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.699U ± 0.445 (0.827) C:72% T:83%**	pCi/L	03/11/24 16:48	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.798U ± 0.610 (1.20)**	pCi/L	03/14/24 16:49	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Sample: YAT-YGWA-1D **Lab ID: 92714724022** Collected: 02/20/24 13:24 Received: 02/21/24 15:12 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	**0.120U ± 0.165 (0.356) C:91% T:NA**	pCi/L	03/11/24 08:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.154U ± 0.422 (0.945) C:75% T:78%**	pCi/L	03/11/24 16:48	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.274U ± 0.587 (1.30)**	pCi/L	03/14/24 16:49	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Sample: YAT-YGWA-2I **Lab ID: 92714724023** Collected: 02/20/24 16:02 Received: 02/21/24 15:12 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	**-0.0626U ± 0.144 (0.431) C:76% T:NA**	pCi/L	03/11/24 08:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.784 ± 0.420 (0.733) C:78% T:82%**	pCi/L	03/11/24 16:48	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.784U ± 0.564 (1.16)**	pCi/L	03/14/24 16:49	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Sample: YAT-YGWA-14S **Lab ID: 92714724024** Collected: 02/23/24 11:00 Received: 02/24/24 11:33 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	**0.0389U ± 0.116 (0.281) C:88% T:NA**	pCi/L	03/18/24 10:09	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.697U ± 0.457 (0.876) C:75% T:84%**	pCi/L	03/13/24 16:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.736U ± 0.573 (1.16)**	pCi/L	03/18/24 15:39	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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.: 92714724

Sample: YAT-YGWA-18S **Lab ID: 92714724025** Collected: 02/23/24 09:25 Received: 02/24/24 11:33 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	**0.0497U ± 0.0978 (0.226) C:93% T:NA**	pCi/L	03/18/24 10:09	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.268U ± 0.346 (0.735) C:77% T:86%**	pCi/L	03/13/24 16:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.318U ± 0.444 (0.961)**	pCi/L	03/18/24 15:39	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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9800 Kincey Ave. Suite 100
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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Sample: YAT-UGRD-FD-1 **Lab ID: 92714724026** Collected: 02/23/24 00:00 Received: 02/24/24 11:33 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	**-0.00856U ± 0.0756 (0.220) C:92% T:NA**	pCi/L	03/18/24 10:09	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.0242U ± 0.378 (0.882) C:76% T:84%**	pCi/L	03/13/24 16:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.000U ± 0.454 (1.10)**	pCi/L	03/18/24 15:39	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Sample: YAT-UGRD-FD-2 **Lab ID: 92714724027** Collected: 02/23/24 00:00 Received: 02/24/24 11:33 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	**0.0205U ± 0.0772 (0.198) C:93% T:NA**	pCi/L	03/18/24 08:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.107U ± 0.449 (1.02) C:72% T:83%**	pCi/L	03/13/24 16:03	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.128U ± 0.526 (1.22)**	pCi/L	03/18/24 15:39	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

QC Batch: 652557 Analysis Method: EPA 9320
QC Batch Method: EPA 9320 Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92714724024, 92714724025, 92714724026, 92714724027

METHOD BLANK: 3178917 Matrix: Water
Associated Lab Samples: 92714724024, 92714724025, 92714724026, 92714724027

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	-0.0560 ± 0.345 (0.817) C:73% T:88%	pCi/L	03/13/24 16:06	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

QC Batch: 651356 Analysis Method: EPA 9320
QC Batch Method: EPA 9320 Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92714724001, 92714724002, 92714724003, 92714724004, 92714724005, 92714724006, 92714724007, 92714724008, 92714724010, 92714724011, 92714724012, 92714724013, 92714724014, 92714724015, 92714724016, 92714724017

METHOD BLANK: 3173418 Matrix: Water
Associated Lab Samples: 92714724001, 92714724002, 92714724003, 92714724004, 92714724005, 92714724006, 92714724007, 92714724008, 92714724010, 92714724011, 92714724012, 92714724013, 92714724014, 92714724015, 92714724016, 92714724017

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.370 ± 0.335 (0.678) C:78% T:87%	pCi/L	03/11/24 12:58	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

QC Batch: 651196 Analysis Method: EPA 9315
QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92714724001, 92714724002, 92714724003, 92714724004, 92714724005, 92714724006, 92714724007, 92714724008, 92714724010, 92714724011, 92714724012, 92714724013, 92714724014, 92714724015, 92714724016, 92714724017, 92714724019, 92714724020

METHOD BLANK: 3172765 Matrix: Water
Associated Lab Samples: 92714724001, 92714724002, 92714724003, 92714724004, 92714724005, 92714724006, 92714724007, 92714724008, 92714724010, 92714724011, 92714724012, 92714724013, 92714724014, 92714724015, 92714724016, 92714724017, 92714724019, 92714724020

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0176 ± 0.0702 (0.223) C:92% T:NA	pCi/L	03/15/24 08:19	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

QC Batch: 651197
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92714724021, 92714724022, 92714724023

METHOD BLANK: 3172766 Matrix: Water
Associated Lab Samples: 92714724021, 92714724022, 92714724023

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0136 ± 0.137 (0.359) C:89% T:NA	pCi/L	03/11/24 10:01	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

QC Batch: 651359 Analysis Method: EPA 9320
QC Batch Method: EPA 9320 Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92714724019, 92714724020, 92714724021, 92714724022, 92714724023

METHOD BLANK: 3173423 Matrix: Water
Associated Lab Samples: 92714724019, 92714724020, 92714724021, 92714724022, 92714724023

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.310 ± 0.405 (0.865) C:73% T:92%	pCi/L	03/11/24 16:47	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

QC Batch: 652903 Analysis Method: EPA 9315
QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92714724024, 92714724025, 92714724026, 92714724027

METHOD BLANK: 3180680 Matrix: Water
Associated Lab Samples: 92714724024, 92714724025, 92714724026, 92714724027

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0533 ± 0.0799 (0.258) C:95% T:NA	pCi/L	03/18/24 08:33	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92714724001	**YAT-YGWA-47**	EPA 9315	651196		
92714724002	**YAT-GWA-2**	EPA 9315	651196		
92714724003	**YAT-YGWA-4I**	EPA 9315	651196		
92714724004	**YAT-YGWA-5I**	EPA 9315	651196		
92714724005	**YAT-YGWA-5D**	EPA 9315	651196		
92714724006	**YAT-YGWA-20S**	EPA 9315	651196		
92714724007	**YAT-YGWA-21I**	EPA 9315	651196		
92714724008	**YAT-YGWA-17S**	EPA 9315	651196		
92714724010	**YAT-YGWA-18I**	EPA 9315	651196		
92714724011	**YAT-UGRD-EB-1**	EPA 9315	651196		
92714724012	**YAT-UGRD-FB-1**	EPA 9315	651196		
92714724013	**YAT-UGRD-EB-2**	EPA 9315	651196		
92714724014	**YAT-UGRD-FB-2**	EPA 9315	651196		
92714724015	**YAT-YGWA-30I**	EPA 9315	651196		
92714724016	**YAT-YGWA-3I**	EPA 9315	651196		
92714724017	**YAT-YGWA-3D**	EPA 9315	651196		
92714724019	**YAT-YGWA-39**	EPA 9315	651196		
92714724020	**YAT-YGWA-40**	EPA 9315	651196		
92714724021	**YAT-YGWA-1I**	EPA 9315	651197		
92714724022	**YAT-YGWA-1D**	EPA 9315	651197		
92714724023	**YAT-YGWA-2I**	EPA 9315	651197		
92714724024	**YAT-YGWA-14S**	EPA 9315	652903		
92714724025	**YAT-YGWA-18S**	EPA 9315	652903		
92714724026	**YAT-UGRD-FD-1**	EPA 9315	652903		
92714724027	**YAT-UGRD-FD-2**	EPA 9315	652903		
92714724001	**YAT-YGWA-47**	EPA 9320	651356		
92714724002	**YAT-GWA-2**	EPA 9320	651356		
92714724003	**YAT-YGWA-4I**	EPA 9320	651356		
92714724004	**YAT-YGWA-5I**	EPA 9320	651356		
92714724005	**YAT-YGWA-5D**	EPA 9320	651356		
92714724006	**YAT-YGWA-20S**	EPA 9320	651356		
92714724007	**YAT-YGWA-21I**	EPA 9320	651356		
92714724008	**YAT-YGWA-17S**	EPA 9320	651356		
92714724010	**YAT-YGWA-18I**	EPA 9320	651356		
92714724011	**YAT-UGRD-EB-1**	EPA 9320	651356		
92714724012	**YAT-UGRD-FB-1**	EPA 9320	651356		
92714724013	**YAT-UGRD-EB-2**	EPA 9320	651356		
92714724014	**YAT-UGRD-FB-2**	EPA 9320	651356		
92714724015	**YAT-YGWA-30I**	EPA 9320	651356		
92714724016	**YAT-YGWA-3I**	EPA 9320	651356		
92714724017	**YAT-YGWA-3D**	EPA 9320	651356		
92714724019	**YAT-YGWA-39**	EPA 9320	651359		
92714724020	**YAT-YGWA-40**	EPA 9320	651359		
92714724021	**YAT-YGWA-1I**	EPA 9320	651359		
92714724022	**YAT-YGWA-1D**	EPA 9320	651359		
92714724023	**YAT-YGWA-2I**	EPA 9320	651359		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92714724024	**YAT-YGWA-14S**	EPA 9320	652557		
92714724025	**YAT-YGWA-18S**	EPA 9320	652557		
92714724026	**YAT-UGRD-FD-1**	EPA 9320	652557		
92714724027	**YAT-UGRD-FD-2**	EPA 9320	652557		
92714724001	**YAT-YGWA-47**	Total Radium Calculation	655435		
92714724002	**YAT-GWA-2**	Total Radium Calculation	655435		
92714724003	**YAT-YGWA-4I**	Total Radium Calculation	655435		
92714724004	**YAT-YGWA-5I**	Total Radium Calculation	655435		
92714724005	**YAT-YGWA-5D**	Total Radium Calculation	655435		
92714724006	**YAT-YGWA-20S**	Total Radium Calculation	655435		
92714724007	**YAT-YGWA-21I**	Total Radium Calculation	655435		
92714724008	**YAT-YGWA-17S**	Total Radium Calculation	655435		
92714724010	**YAT-YGWA-18I**	Total Radium Calculation	655435		
92714724011	**YAT-UGRD-EB-1**	Total Radium Calculation	655435		
92714724012	**YAT-UGRD-FB-1**	Total Radium Calculation	655435		
92714724013	**YAT-UGRD-EB-2**	Total Radium Calculation	655435		
92714724014	**YAT-UGRD-FB-2**	Total Radium Calculation	655435		
92714724015	**YAT-YGWA-30I**	Total Radium Calculation	655435		
92714724016	**YAT-YGWA-3I**	Total Radium Calculation	655435		
92714724017	**YAT-YGWA-3D**	Total Radium Calculation	655435		
92714724019	**YAT-YGWA-39**	Total Radium Calculation	655435		
92714724020	**YAT-YGWA-40**	Total Radium Calculation	655435		
92714724021	**YAT-YGWA-1I**	Total Radium Calculation	655250		
92714724022	**YAT-YGWA-1D**	Total Radium Calculation	655250		
92714724023	**YAT-YGWA-2I**	Total Radium Calculation	655250		
92714724024	**YAT-YGWA-14S**	Total Radium Calculation	655855		
92714724025	**YAT-YGWA-18S**	Total Radium Calculation	655855		
92714724026	**YAT-UGRD-FD-1**	Total Radium Calculation	655855		
92714724027	**YAT-UGRD-FD-2**	Total Radium Calculation	655855		

Pace	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Ga Power

Project #: WO# : 92714724

92714724

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:** 7/11/24 SH

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other **Biological Tissue Frozen?** ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 730 **Type of Ice:** ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.3 **Correction Factor:** Add/Subtract (°C): -0.1

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 4.4

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)? 7/11 SH	☐ 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: WT	☑ 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:** _____

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

WO#: 92714724

Project #

PM: BV Due Date: 03/14/24

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

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)	Vigorin	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1																			X				
2		2	1			1																			X				
3		2	1			1																			X				
4		2	1			1																			X				
5		2	1			1																			X				
6		2	1			1																			X				
7		2	1			1																			X				
8		2	1			1																			X				
9		2	1			1																			X				
10																									X				
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

92714724

Company Name:	Southern Company	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2024S1	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: Standard TAT

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [N] 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)	App III Metals					Sample Comment	Preservation non-conformance identified for sample
YAT-YGWA-47	WG	G	2/20/24	1030				6		X	X	X	X	X						See Remarks 001	
YAT-GWA-2	WG	G	2/20/24	1150				6		X	X	X	X	X	X					See Remarks 002	
YAT-YGWA-4I	WG	G						6		X	X	X	X	X						See Remarks	
YAT-YGWA-5I	WG	G						6		X	X	X	X	X						See Remarks	
YAT-YGWA-5D	WG	G						6		X	X	X	X	X						See Remarks	
YAT-YGWA-17S	WG	G						6		X	X	X	X	X						See Remarks	
YAT-YGWA-18S	WG	G						6		X	X	X	X	X						See Remarks	
YAT-YGWA-18I	WG	G						6		X	X	X	X	X						See Remarks	
YAT-YGWA-20S	WG	G						6		X	X	X	X	X						See Remarks	
YAT-YGWA-21I	WG	G						6		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): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) Jake Swanson
Signature: (Arcadis)

Additional Instructions from Pace®:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
/Arcadis	2/20/24 / 1730	/Arcadis	2/20/24 / 1730	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In-Person [ ] Courier
	2/21/24 1220	/ Pace	2/21/24 1220	[ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
/ Pace	2/21/24 1512		2/21/24 1512	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

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:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202451	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: STANDARD TAT

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)	App I/II Metals	Sample Comment	Preservation non-conformance identified for sample
YAT-YGWA-47	WG	G						6		X	X	X	X	X		See Remarks	
YAT-GWA-2	WG	G						6		X	X	X	X	X	X	See Remarks	
YAT-YGWA-4I	WG	G	2/20/24	1110	—	—		6		X	X	X	X	X		See Remarks 003	
YAT-YGWA-5I	WG	G	2/20/24	1218	—	—		6		X	X	X	X	X		See Remarks 004	
YAT-YGWA-5D	WG	G	2/20/24	1325	—	—		6		X	X	X	X	X		See Remarks 005	
YAT-YGWA-17S	WG	G						6		X	X	X	X	X		See Remarks	
YAT-YGWA-18S	WG	G						6		X	X	X	X	X		See Remarks	
YAT-YGWA-18I	WG	G						6		X	X	X	X	X		See Remarks	
YAT-YGWA-20S	WG	G	2/20/24	1440	—	—		6		X	X	X	X	X		See Remarks 006	
YAT-YGWA-21I	WG	G	2/20/24	1635	—	—		6		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): Ca, 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:
ARCADIS	2/21/24 0810	Arcadis	2/21/24 0810	
Arcadis	2/24/24 1220	Ryan Williams / Pace	2/24 /24 1220	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Ryan Williams / Pace	2/21/24 1512		2/21/24 1512	
				Page: 1 of 2

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:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2024S1	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: Standard TAT

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 9315/8320	Alkalinity (SM2320B)	App I/II Metals	Sample Comment
YAT-YGWA-47	WG	G						6		X	X	X	X	X		See Remarks
YAT-GWA-2	WG	G						6		X	X	X	X	X	X	See Remarks
YAT-YGWA-4I	WG	G						6		X	X	X	X	X		See Remarks
YAT-YGWA-5I	WG	G						6		X	X	X	X	X		See Remarks
YAT-YGWA-5D	WG	G						6		X	X	X	X	X		See Remarks
YAT-YGWA-17S	WG	G	2/20/24	1037				6		X	X	X	X	X		See Remarks 008
YAT-YGWA-18S	WG	G	2/20/24	1152				6		X	X	X	X	X		See Remarks 009
YAT-YGWA-18I	WG	G	2/20/24	1248				6		X	X	X	X	X		See Remarks 010
YAT-YGWA-20S	WG	G						6		X	X	X	X	X		See Remarks
YAT-YGWA-21I	WG	G						6		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): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) Jessica Ware
Signature: (Arcadis) Jessica Ware

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Jessica Ware / Arcadis	2/21/24 0725	[illegible] / Arcadis	2/21/24 0725	
[illegible] / Arcadis	2/21/24 1220	Lyar Williams / Pace	2/21/24 1226	Delivered by: [ ] In-Person [ ] Courier
Lyar Williams / Pace	2/21/24 1512	[illegible]	2/21/24 1512	[ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 1 of 3

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	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt Client Name: Ga Power Project #:

WO# : 92714724
PM: BV Due Date: 03/14/24
CLIENT: 92-GP-Yates

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other:____

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 2/21/24 SLL

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.3 Correction Factor: Add/Subtract (°C) +0.1

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 4.4

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)? 2/21 SLL	~~☑ Yes~~	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: ____ Date/Time: ____

Project Manager SCURF Review: ____ Date: ____

Project Manager SRF Review: ____ Date: ____

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project # **WO# : 92714724**

PM: BV Due Date: 03/14/24

CLIENT: 92-GP-Yates

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)	BP1N	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1																			2				
2		2	1			1																			2				
3		2	1			1																			2				
4		2	1			1																			2				
5																													
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9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2024S1	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:	GPC Standard
		DW PWSID # or WW Permit # as applicable:	
		Field Filtered (if applicable): [ ] Yes [X] No	
		Analysis:	

Specify Container Size **: 3 3 2 1 3
Identify Container Preservative Type***: 2 1 1 2 1
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), 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	2/20/24	1715	-	-	-	6		X	X	X	X	X	See Remarks 011	
YA1-UGRD-FB-1	WG	G	2/20/24	1535	-	-	-	6		X	X	X	X	X	See Remarks 012	
YAT-UGRD-EB-2	WG	G						6		X	X	X	X	X	See Remarks	
YAT-UGRD-FB-2	WG	G						6		X	X	X	X	X	See Remarks	
YAT-UGRD-FD-1	WG	G						6		X	X	X	X	X	See Remarks	
YAT-UGRD-FD-2	WG	G						6		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): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - Mark Chest
Signature: (Arcadis)

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature) Mark Chest / Arcadis	Date/Time: 2/21/24 1220	Received by/Company: (Signature) Lyan Williams / Pace	Date/Time: 2/21/24 1220	Tracking Number:
Relinquished by/Company: (Signature) Lyan Williams / Pace	Date/Time: 2/21/24 1512	Received by/Company: (Signature)	Date/Time: 2/21/24 1512	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: 2 of 2

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:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202451	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: Standard

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

**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						6		X	X	X	X	X	See Remarks
YAT-UGRD-FB-1	WG	G						6		X	X	X	X	X	See Remarks
YAT-UGRD-EB-2	WG	G	2/20/24	1555				6		X	X	X	X	X	See Remarks 013
YAT-UGRD-FB-2	WG	G						6		X	X	X	X	X	See Remarks
YAT-UGRD-FD-1	WG	G						6		X	X	X	X	X	See Remarks
YAT-UGRD-FD-2	WG	G						6		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): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By: Printed Name: (Arcadis) Jessica Ware; Signature: (Arcadis) Jessica Ware

Additional Instructions from Pace®:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time	Received by/Company: (Signature)	Date/Time	Tracking Number:
Jessica Ware / Arcadis	2/21/24 0725			
Relinquished by/Company: (Signature)	Date/Time	Received by/Company: (Signature)	Date/Time	Delivered by: [ ] In-Person [ ] Courier
/ Arcadis	2/21/24 1220	Ryan Williams / Pace	2/21/24 1220	[ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time	Received by/Company: (Signature)	Date/Time	
Ryan Williams / Pace	2/21/24 1512		2/21/24 1512	Page: 3 of 3
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	

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
Street Address: 241 Ralph McGill Blvd, Atlanta, GA 30308

Contact/Report To: Lauren Hartley
Phone #: 470-620-6176
E-Mail: laucoker@southernco.com
Cc E-Mail: Arcadis contacts

Customer Project #: Task No. YAT-CCR-ASSMT-202451
Project Name: Georgia Power Yates

Invoice To:
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: STANDARD TAT

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

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 Date	Collected Time	Composite End Date	Composite End Time	Res. Cl2	Containers Plastic	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						6		X	X	X	X	X	See Remarks	
YAT-UGRD-FB-1	WG	G						6		X	X	X	X	X	See Remarks	
YAT-UGRD-EB-2	WG	G						6		X	X	X	X	X	See Remarks	
YAT-UGRD-FB-2	WG	G	2/20/24	1700	—	—		6		X	X	X	X	X	See Remarks 014	
YAT-UGRD-FD-1	WG	G						6		X	X	X	X	X	See Remarks	
YAT-UGRD-FD-2	WG	G						6		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): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - KIM WAPSZYNSKI
Signature: (Arcadis) - [signature]

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
[signature] / ARCADIS	2/21/24 0810	[signature] / Arcadis	2/21/24 0810
[signature] / Arcadis	2/21/24 1220	Ryan Williams / Pace	2/21/24 1220
Ryan Williams / Pace	2/21/24 1512	[signature]	2/21/24 1512

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other

Page: 2 of 2

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	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Gen Probe

Project #: WO# : 92714724

PM: BV Due Date: 03/14/24

CLIENT: 92-GP-Yates

Courier: ☐ Commercial ☑ Pace ☐ Fed Ex ☐ UPS ☐ USPS ☐ Other: ☐ Client

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 7/11/24 SH

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☐ N/A

Thermometer: ☑ IR Gun ID: 730

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.3 Correction Factor: Add/Subtract (°C): -0.1

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 4.4

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)? 7/11 SH	☐ 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: Ld				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☐ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☐ N/A	

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Pace	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project # WO#: 92714724

PM: BV Due Date: 03/14/24

CLIENT: 92-GP-Yates

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)	13 12 11	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1																			X				
2		2	1			1																			X				
3		2	1			1																			X				
4		2	1			1																			X				
5		2	1			1																			X				
6		2	1			1																			X				
7		2	1			1																			X				
8		2	1			1																			X				
9		2	1			1	X																		X				
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202451	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: Standard

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

* Matrix Codes (insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), 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	2/20/24	1625				6		X	X	X	X	X	See Remarks 015	
YAT-YGWA-14S	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-39	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-40	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-1I	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-1D	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-2I	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-3I	WG	G	2/20/24	1350				6		X	X	X	X	X	See Remarks 016	
YAT-YGWA-3D	WG	G	2/20/24	1135				6		X	X	X	X	X	See Remarks 017	
			~~2/20/24~~	~~1135~~												

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): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) David Brady
Signature: (Arcadis)

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature) Arcadis	Date/Time: 2/21/24 0810	Received by/Company: (Signature) Arcadis	Date/Time: 2/21/24 0810	Tracking Number:
Relinquished by/Company: (Signature) Arcadis	Date/Time: 2/21/24 1920	Received by/Company: (Signature) Pace	Date/Time: 2/21/24 1220	Delivered by: [ ] In-Person [ ] Courier
Relinquished by/Company: (Signature) Pace	Date/Time: 2/21/24 1812	Received by/Company: (Signature)	Date/Time: 2/21/24	[ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 1 of 1

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

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LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for Instructions

Company Name:	Southern Company	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2024S1	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: Standard

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment
YAT-YGWA-30I	WG	G						6		X	X	X	X	X	See Remarks
YAT-YGWA-14S	WG	G	2/20/24	1701				6		X	X	X	X	X	See Remarks 018
YAT-YGWA-39	WG	G	2/20/24	1358				6		X	X	X	X	X	See Remarks 019
YAT-YGWA-40	WG	G	2/20/24	1510				6		X	X	X	X	X	See Remarks 020
YAT-YGWA-1I	WG	G						6		X	X	X	X	X	See Remarks
YAT-YGWA-1D	WG	G						6		X	X	X	X	X	See Remarks
YAT-YGWA-2I	WG	G						6		X	X	X	X	X	See Remarks
YAT-YGWA-3I	WG	G						6		X	X	X	X	X	See Remarks
YAT-YGWA-3D	WG	G						6		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): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - Jessica Ware
Signature: (Arcadis) - Jessica Ware

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Jessica Ware (Arcadis)	2/21/24 0725	[illegible] / Arcadis	2/21/24 0725	
[illegible] / Arcadis	2/21/24 1220	Ryan Williams / Pace	2/21/24 1220	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Ryan Williams / Pace	2/21/24 1512	[illegible]	2/21/24 1512	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 2 of 3

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:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202451	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: Standard

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment	Preservation non-conformance identified for sample
YAT-YGWA-30I	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-14S	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-39	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-40	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-1I	WG	G	2/20/24	1202	—	—	—	6		X	X	X	X	X	See Remarks 021	
YAT-YGWA-1D	WG	G	2/20/24	1324	—	—	—	6		X	X	X	X	X	See Remarks 022	
YAT-YGWA-2I	WG	G	2/20/24	1602	—	—	—	6		X	X	X	X	X	See Remarks 023	
YAT-YGWA-3I	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-3D	WG	G						6		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:

**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): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) Mark Chest
Signature: (Arcadis)

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

	Date/Time:		Date/Time:	Tracking Number:
Relinquished by/Company: (Signature) Arcadis	2/21/24 1220	Received by/Company: (Signature) Pace	2/21/24 1220	
Relinquished by/Company: (Signature) Pace	2/21/24 1512	Received by/Company: (Signature)	2/21/24 1512	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: 1 of 2

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Southern Company - GA Power

Project #: **WO# : 92714724**

PM: BV Due Date: 03/14/24

CLIENT: 92-GP-Yates

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☑ USPS ☑ Client ☐ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents:

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.3 Correction Factor: Add/Subtract (°C) +0.1

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 4.4

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WG	☐ Yes	☐ No	☐ N/A	9.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Pace	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project # **WO#: 92714724**

PM: BV Due Date: 03/14/24

CLIENT: 92-GP-Yates

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)	BP1N	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1																			2				
2																													
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11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

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

92714724

Company Name:	Southern Company	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202451	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: Standard TAT

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	Preservation non-conformance identified for sample
Specify Container Size **										3	3	2	1	3		
Identify Container Preservative Type***										2	1	1	2	1		
Analysis Requested																
YAT-YGWA-30I	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-14S	WG	G	2/23/24	1100				6		X	X	X	X	X	See Remarks 624	
YAT-YGWA-39	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-40	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-1I	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-1D	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-2I	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-3I	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-3D	WG	G						6		X	X	X	X	X	See Remarks	

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Bonnie Wang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Ca, Na, K, Mg: For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) -
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: 2/23/24 1730	Received by/Company: (Signature) Jessica Dow / Arcadis	Date/Time: 2/23/24 1730	Tracking Number:
Relinquished by/Company: (Signature)	Date/Time: 2/24/24 1133	Received by/Company: (Signature) MTW	Date/Time: 2/24/24 1133	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: 1 of 1

Pace	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☒ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Southern Company - GA Power

Project #:

WO# : 92714724

PM: BV Due Date: 03/14/24

CLIENT: 92-GP-Yates

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☒ No Seals Intact? ☐ Yes ☐ No ☒ N/A

Date/Initials Person Examining Contents:

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A

Thermometer: ☐ IR Gun ID: 230 Type of Ice: ☒ Wet ☐ Blue ☐ None

Cooler Temp: 4.3 Correction Factor: Add/Subtract (°C) +0.1

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 4.4

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☒ 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:

Qualtrax ID: 69614

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

WO# : 92714724

PM: BV Due Date: 03/14/24

CLIENT: 92-GP-Yates

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)	1301N	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1																			X				
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11																													
12																													

pH Adjustment Log for Preserved Samples						
Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

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:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202451	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: Standard TAT

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

**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

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)	App I/II Metals					Sample Comment	Preservation non-conformance identified for sample
YAT-YGWA-47	WG	G						6		X	X	X	X	X						See Remarks	
YAT-GWA-2	WG	G						6		X	X	X	X	X	X					See Remarks	
YAT-YGWA-4I	WG	G						6		X	X	X	X	X						See Remarks	
YAT-YGWA-5I	WG	G						6		X	X	X	X	X						See Remarks	
YAT-YGWA-5D	WG	G						6		X	X	X	X	X						See Remarks	
YAT-YGWA-17S	WG	G						6		X	X	X	X	X						See Remarks	
YAT-YGWA-18S	WG	G	2/23/24	0925				6		X	X	X	X	X						See Remarks ULS	
YAT-YGWA-18I	WG	G						6		X	X	X	X	X						See Remarks	
YAT-YGWA-20S	WG	G						6		X	X	X	X	X						See Remarks	
YAT-YGWA-21I	WG	G						6		X	X	X	X	X						See Remarks	

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg
Additional metals (6010D): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) David Routh
Signature: (Arcadis)

Additional Instructions from Pace®:

Cooler: 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:
[signature]	2/23/24 1230	[signature] Arcadis	2/23/24 1230	
[signature] Arcadis	2/24/24 1133	MAW	2/24/24 1133	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

DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt

Effective Date: 12/01/2023

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Southern Company - GA Power

Project #: **WO#: 92714724**

PM: BV Due Date: 03/14/24

CLIENT: 92-GP-Yates

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents:

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.3 Correction Factor: Add/Subtract (°C) +0.1

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 4.4

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WG	☐ Yes	☐ No	☐ N/A	9.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Pace	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	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)	BP1N	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1																			2				
2		2	1			1																			2				
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace® Location Requested (City/State): Pace Analytical Charlotte, 9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308
Contact/Report To:	Lauren Hartley
Phone #:	470-620-6176
E-Mail:	laucoker@southernco.com
Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452
Project Name:	Georgia Power Yatas
Site Collection Info/Facility ID (as applicable):	YAT Peaked Upgradient
Invoice To:	
Invoice E-Mail:	
Purchase Order # (if applicable):	GPC82474-0002
Quote #:	
Time Zone Collected:	[ ] AK [ ] PT [ ] MT [ ] CT [X] ET
County / State origin of sample(s):	Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [ ] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Data Results Requested: Standard TAT

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

Specify Containers 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 Wang

Accolum / 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), Biosassy (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 samples
YAT-UGRD-EB-1	WG	G						6		X	X	X	X	X	See Remarks	
YAT-UGRD-FB-1	WG	G						6		X	X	X	X	X	See Remarks	
YAT-UGRD-EB-2	WG	G						6		X	X	X	X	X	See Remarks	
YAT-UGRD-FB-2	WG	G	2/23/24					6		X	X	X	X	X	See Remarks	
YAT-UGRD-FD-1	WG	G	2/23/24					6		X	X	X	X	X	See Remarks 026	
YAT-UGRD-FD-2	WG	G	2/23/24					6		X	X	X	X	X	See Remarks 027	

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): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:

Printed Name: (Arcadis) -

Signature: (Arcadis)

Additional Instructions from Pace®:

	Thermometer ID:	Correction Factor (°C):	Obs. Temp (°C)	Corrected Temp (°C)
Cooler				

	Date/Time	Received by/Company: (Signature)	Date/Time	Tracking Number:
Relinquished by/Company: (Signature)	2/23/24 1230	Received by/Company: (Signature) Arcadis	2/23/24 1230	
Relinquished by/Company: (Signature)	2/24/24 1133	Received by/Company: (Signature)	2/24/24 1130	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: 1 of 1

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	VAL
Date:	3/5/2024
Worklist:	77863
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3173418
MB concentration:	0.370
M/B 2 Sigma CSU:	0.335
MB MDC:	0.678
MB Numerical Performance Indicator:	2.16
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS77863	LCSD77863
Count Date:	3/11/2024	3/11/2024
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	37.542	37.542
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.820	0.820
Target Conc. (pCi/L, g, F):	4.576	4.580
Uncertainty (Calculated):	0.224	0.224
Result (pCi/L, g, F):	3.528	4.629
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.823	1.029
Numerical Performance Indicator:	-2.41	0.09
Percent Recovery:	77.10%	101.07%
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.:	LCS77863	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD77863	
Sample Result (pCi/L, g, F):	3.528	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.823	
Sample Duplicate Result (pCi/L, g, F):	4.629	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.029	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-1.638	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	26.91%	
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:

ET 3-12-24

VAL 3/12/24

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	JJS1
Date:	3/5/2024
Worklist:	77864
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3173423
MB concentration:	0.310
M/B 2 Sigma CSU:	0.405
MB MDC:	0.865
MB Numerical Performance Indicator:	1.50
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS77864	LCSD77864
Count Date:	3/11/2024	1/0/1900
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	37.540	119275490.841
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.820	0.822
Target Conc. (pCi/L, g, F):	4.575	14511106.482
Uncertainty (Calculated):	0.224	711044.218
Result (pCi/L, g, F):	4.580	#NUM!
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.069	#NUM!
Numerical Performance Indicator:	0.01	#NUM!
Percent Recovery:	100.11%	#NUM!
Status vs Numerical Indicator:	N/A	#NUM!
Status vs Recovery:	Pass	#NUM!
Upper % Recovery Limits:	135%	#NUM!
Lower % Recovery Limits:	60%	#NUM!

Duplicate Sample Assessment		
Sample I.D.:	LCS77864	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD77864	
Sample Result (pCi/L, g, F):	4.580	
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.069	
Sample Duplicate Result (pCi/L, g, F):	#NUM!	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	#NUM!	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	#NUM!	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	#NUM!	
Duplicate Status vs Numerical Indicator:	#NUM!	
Duplicate Status vs RPD:	#NUM!	
% RPD Limit:	#NUM!	

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
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:

#NUM!
#NUM!

VAL
3/12/24

3/13/24

RE LCSD - pellet lost

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test:	Ra-228
Analyst:	ZPC
Date:	3/7/2024
Worklist:	77962
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3178917
MB concentration:	-0.056
M/B 2 Sigma CSU:	0.345
MB MDC:	0.817
MB Numerical Performance Indicator:	-0.32
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS77962	LCSD77962
Count Date:	3/13/2024	3/13/2024
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	37.516	37.516
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.821	0.818
Target Conc. (pCi/L, g, F):	4.571	4.585
Uncertainty (Calculated):	0.224	0.225
Result (pCi/L, g, F):	4.202	4.563
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.972	1.038
Numerical Performance Indicator:	-0.72	-0.04
Percent Recovery:	91.93%	99.53%
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.:	LCS77962	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD77962	
Sample Result (pCi/L, g, F):	4.202	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.972	
Sample Duplicate Result (pCi/L, g, F):	4.563	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.038	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-0.497	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	7.94%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

3/14/24

VAL
3/15/24

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	3/11/2024
Worklist:	77854
Matrix:	DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3172765
MB concentration:	-0.018
M/B Counting Uncertainty:	0.070
MB MDC:	0.223
MB Numerical Performance Indicator:	-0.49
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS77854	LCSD77854
Count Date:	3/15/2024	3/15/2024
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.025	25.025
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.503	0.505
Target Conc. (pCi/L, g, F):	4.977	4.956
Uncertainty (Calculated):	0.234	0.233
Result (pCi/L, g, F):	4.774	4.671
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.585	0.611
Numerical Performance Indicator:	-0.63	-0.86
Percent Recovery:	95.92%	94.24%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
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 Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
MS Numerical Performance Indicator:		
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.:	LCS77854	92714724020
Duplicate Sample I.D.	LCSD77854	92714724020DUP
Sample Result (pCi/L, g, F):	4.774	0.135
Sample Result Counting Uncertainty (pCi/L, g, F):	0.585	0.129
Sample Duplicate Result (pCi/L, g, F):	4.671	0.408
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.611	0.204
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	0.239	-2.215
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	1.78%	100.46%
Duplicate Status vs Numerical Indicator:	N/A	N/A
Duplicate Status vs RPD:	Pass	Fail***
% 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 Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

~~***Batch must be re-prepped due to unacceptable precision.~~ NA JJT 3-15-24

3/15/24

3/15/24

Quality Control Sample Performance Assessment

Pace Analytical™
www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	3/8/2024
Worklist:	77855
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3172766
MB concentration:	0.014
M/B 2 Sigma CSU:	0.137
MB MDC:	0.359
MB Numerical Performance Indicator:	0.19
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS77855	LCSD77855
Count Date:	3/11/2024	3/11/2024
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.025	25.025
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.503	0.503
Target Conc. (pCi/L, g, F):	4.974	4.978
Uncertainty (Calculated):	0.234	0.234
Result (pCi/L, g, F):	4.446	4.338
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.883	0.869
Numerical Performance Indicator:	-1.13	-1.39
Percent Recovery:	89.38%	87.15%
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.:	LCS77855	92714725002
Duplicate Sample I.D.	LCSD77855	92714725002DUP
Sample Result (pCi/L, g, F):	4.446	0.039
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.883	0.133
Sample Duplicate Result (pCi/L, g, F):	4.338	0.033
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.869	0.130
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	0.170	0.069
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	2.52%	18.09%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	N/A	N/A
% RPD Limit:	25%	25%

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

CT 3-12-24

WAM 3/11/24

Quality Control Sample Performance Assessment

Pace Analytical™
www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	3/12/2024
Worklist:	77994
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3180680
MB concentration:	-0.053
M/B 2 Sigma CSU:	0.080
MB MDC:	0.258
MB Numerical Performance Indicator:	-1.31
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS77994	LCSD77994
Count Date:	3/18/2024	3/18/2024
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.025	25.025
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.509	0.506
Target Conc. (pCi/L, g, F):	4.913	4.945
Uncertainty (Calculated):	0.231	0.232
Result (pCi/L, g, F):	4.894	5.111
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.898	0.955
Numerical Performance Indicator:	-0.04	0.33
Percent Recovery:	99.62%	103.35%
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.:	LCS77994	92714724027
Duplicate Sample I.D.	LCSD77994	92714724027DUP
Sample Result (pCi/L, g, F):	4.894	0.021
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.898	0.077
Sample Duplicate Result (pCi/L, g, F):	5.111	0.020
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.955	0.073
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	-0.324	0.006
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	3.68%	1.57%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	N/A	N/A
% RPD Limit:	25%	25%

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

CT 3-18-24

LAM 3/18/24

June 2024
YGWC-50 and PZ-54D

Georgia Power Co. – Plant Yates

Data Review Report

Metals, General Chemistry, and Radium Analyses

SDGs #92736140 and 92736155

Analyses Performed By:
Pace Analytical Services – Asheville, North Carolina
Pace Analytical Services – Peachtree Corners, Georgia
Pace Analytical Services – Greensburg, Pennsylvania

Report #64861R
Review Level: Tier II
Project: 30143622.3C

Summary

This Data Review Report summarizes the review of Sample Delivery Groups (SDGs) #92736140 and 92736155 for samples collected in association with the Georgia Power Company – Plant Yates. The review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the chain of custody form and a table summarizing the data validation qualifiers. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					RAD	MET	GEN CHEM
YAT-YGWC-50	92736140001 92736155001	Water	6/10/2024		X	X	X
YAT-AMA-R6-FB-1	92736140002 92736155002	Water	6/10/2024		X	X	X
YAT-AMA-R6-EB-1	92736140003 92736155003	Water	6/10/2024		X	X	X
YAT-AMA-R6-FD-1	92736140004 92736155004	Water	6/10/2024	YAT-YGWC-50	X	X	X
YAT-PZ-54D	92736140005 92736155005	Water	6/12/2024		X	X	X

Notes:

1. Metals and total dissolved solids (TDS) analysis performed by Pace Analytical Services – Peachtree Corners, Georgia.
2. Anions (chloride, fluoride, and sulfate) analysis performed by Pace Analytical Services – Asheville, North Carolina.
3. 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 6010D, 6020B, 7470A, 9315, and 9320; Standard Method (SM) SM2540C; and USEPA Method 300.0. Data were reviewed in accordance with USEPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma–Atomic Emission Spectroscopy and Inductively Coupled Plasma–Mass Spectroscopy (September 2011, Rev. 2), USEPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Mercury Data by Cold Vapor Atomic Absorption (September 2011, Rev. 2), and the USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA 542-R-20-006, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, OSWER 9240.1-45, October 2004, as appropriate).

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and that it was already subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with the USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
  - U The analyte was analyzed for but not detected. The associated value is the analyte instrument detection limit.
  - J The reported value was obtained from a reading less than the reporting limit (RL), but greater than or equal to the method detection limit (MDL).
- Quantitation (Q) Qualifiers
  - E The reported value is estimated due to the presence of interference.
  - N Spiked sample recovery is not within control limits.
  - * Duplicate analysis is not within control limits.
- Validation Qualifiers
  - J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
  - UJ The analyte was not detected above the reporting limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
  - UB Analyte considered non-detect at the listed value due to associated blank contamination.
  - R The sample results are rejected.

Two facts should be noted by all data users. First, the “R” flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. “R” values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Metals Analyses

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 6010D/6020B	Water	180 days from collection to analysis	Cool to <6°C; preserved to a pH of less than 2 s.u.
SW-846 7470A	Water	28 days from collection to analysis	Cool to <6°C; preserved to a pH of less than 2 s.u.

Note:
s.u. = standard units

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

All compounds associated with the QA blanks exhibited a concentration less than the MDL, with the exception of the compounds listed in the following table. Sample results less than the BAL associated with the following sample locations were qualified as listed in the following table.

Sample Locations	Analytes	Sample Result	Qualification
YAT-YGWC-50 YAT-AMA-R6-FD-1	Lead (EB)	Detected sample results <RL and <BAL	“UB” at the RL

Notes:
EB = Equipment blank
RL = Reporting limit

3. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

3.1 MS/MSD Analysis

All metal analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS recovery control limits do not apply for MS performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS concentration by a factor of four or greater.

MS/MSD analysis was not performed using a sample from this SDG in association with SW-846 6010D (total), SW-846 6020B (total), and SW-846 7470A (dissolved) analysis.

The MS/MSD analysis performed using sample YAT-PZ-4D in association with SW-846 6010D (dissolved) and SW-846 6020B (dissolved) analysis exhibited recoveries within the control limits.

The MS/MSD analysis performed using sample YAT-AMA-R6-FB-1 in association with SW-846 7470A (total) analysis exhibited recoveries within the control limits.

3.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the RL. A control limit of 20% for water matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of one times the RL is applied for water matrices.

Laboratory duplicate or MS/MSD analysis was not performed using a sample from this SDG in association with SW-846 6010D (total), SW-846 6020B (total), and SW-846 7470A (dissolved) analysis.

MS/MSD analysis was performed in replacement of the laboratory duplicate analysis in association with SW-846 6010D (dissolved), SW-846 6020B (dissolved), and SW-846 7470A (total). The MS/MSD recoveries exhibited acceptable RPDs.

4. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 35% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YAT-YGWC-50 / YAT-AMA-R6-FD-1	Calcium	57.5	58.8	2.2%
	Beryllium	0.0046	0.0045	2.2%
	Boron	20.0	20.7	3.4%
	Cadmium	0.013	0.013	0.0%

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
	Antimony	0.0034	0.0028 J	AC
	Arsenic	0.0014 J	0.0013 J	
	Barium	0.016	0.016	
	Cobalt	0.0055	0.0054	
	Lithium	0.0033 J	0.0032 J	
	Selenium	0.0012 J	0.0017 J	

Note:
AC = Acceptable

The differences in the results between the parent sample YAT-YGWC-50 and field duplicate sample YAT-AMA-R6-FD-1 were acceptable.

5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analysis exhibited recoveries within the control limits.

6. General Assessment – Total vs. Dissolved

When the dissolved concentration exceeds the associated total concentration and both results are five times greater than the RL, the percent difference (%D) between the total and dissolved concentrations must be less than 10%.

The calculated %D between the total and the dissolved sample results were within the control limit, with the exception of the analytes presented in the following table.

Sample Location	Analytes	Result – Total (mg/L)	Result – Dissolved (mg/L)	%D
YAT-PZ-54D	Molybdenum	0.064	0.084	31%

The criteria used to evaluate total and dissolved %D are presented in the following table. In the case of a total and dissolved %D deviation, the total and dissolved sample results are qualified.

Sample Concentration	Control Limit	Sample Result	Qualification
Dissolved sample concentration > total sample concentration and > 5x RL	>10%	Non-detect	UJ
		Detect	J

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for Metals

METALS: SW-846 6010D/6020B/7470A	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP-AES) Inductively Coupled Plasma-Mass Spectrometry (ICP-MS) Atomic Absorption – Manual Cold Vapor (CV)					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method Blanks		X		X	
B. Equipment/Field Blanks		X	X		
Laboratory Control Sample (LCS) %R		X		X	
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Laboratory Duplicate (RPD)	X				X
Field Duplicate (RPD)		X		X	
Total vs. Dissolved		X	X		

Notes:

%R Percent recovery

RPD Relative percent difference

General Chemistry Analyses

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
Total Dissolved Solids (TDS) by SM2540C	Water	7 days from collection to analysis	Cool to <6°C
Chloride, Fluoride, and Sulfate by USEPA 300.0	Water	28 days from collection to analysis	Cool to <6°C

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

TDS was detected in the associated equipment blank YAT-AMA-R6-EB-1; however, the associated sample results were greater than the BAL. No qualification of the sample results was required.

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 on sample location YAT-YGWC-50 in association with anions analysis exhibited recoveries outside control limits as presented in the table below.

Sample Location	Analyte	MS Recovery	MSD Recovery
YAT-YGWC-50	Fluoride	AC (123%)	> 125%

Note:
AC = Acceptable

The criteria used to evaluate the MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified as documented in the table below.

Control limit	Sample Result	Qualification
MS/MSD percent recovery 30% to 74%	Non-detect	UJ
	Detect	J
MS/MSD percent recovery <30%	Non-detect	R
	Detect	J
MS/MSD percent recovery >125%	Non-detect	No Action
	Detect	J

3.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the RL. A control limit of 20% for water matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of one times the RL is applied for water matrices.

The laboratory duplicate analysis performed on sample locations YAT-YGWC-50 and YAT-AMA-R6-EB-1 exhibited acceptable differences between the results.

MS/MSD analysis was performed in replacement of the laboratory duplicate analysis on sample location YAT-YGWC-50 in association with anions analysis. The MS/MSD recoveries exhibited acceptable RPDs.

4. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 35% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YAT-YGWC-50 / YAT-AMA-R6-FD-1	TDS	2,030	2,040	0.5%
	Chloride	9.9	9.9	0.0%
	Fluoride	0.11	0.23	AC
	Sulfate	1,130	1,130	0.0%

Note:
AC = Acceptable

The differences in the results between the parent sample YAT-YGWC-50 and field duplicate sample YAT-AMA-R6-FD-1 were acceptable.

5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analysis exhibited recoveries within the control limits.

6. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for General Chemistry

General Chemistry: SM2540C, USEPA 300.0	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method Blanks		X		X	
B. Equipment/Field Blanks		X		X	
Laboratory Control Sample (LCS) %R		X		X	
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X	X		
MS/MSD Precision (RPD)		X		X	
Laboratory Duplicate (RPD)		X		X	
Field Duplicate (RPD)		X		X	

Notes:

%R Percent recovery

RPD Relative percent difference

Radiological Analyses

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
Radium-226 by SW-846 9315	Water	180 days from collection to analysis	Preserved to a pH of less than 2 s.u.
Radium-228 by SW-846 9320	Water	180 days from collection to analysis	Preserved to a pH of less than 2 s.u.

Note:
s.u. = standard units

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and field/rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Field/rinse blanks measure contamination of samples during field operations.

Blank results should be verified to be accurately reported and that tolerance limits (±2 sigma or standard deviation) were not exceeded; and blank results verified to be less than the minimum detectable concentration (MDC).

For blanks to be considered not applicable, verify net blank results are less than the associated uncertainty by evaluating the blank results based on the following three criteria. If either of these criteria is true, the blank is considered not suspect of contamination (or non-detect).

1. Is the blank result less than the uncertainty and less than the MDC?
2. Does the blank have an uncertainty greater than the result (or indistinguishable from background) or does the blank result fall between its uncertainty and its MDC?

If the blank QC results fall outside the appropriate tolerance limits or if the net blank results are not less than the associated uncertainty, the following equation for normalized absolute difference (NAD) should be used in determining the effect of possible blank contamination on the sample results:

$$Normalized\ \ absolute\ difference_{\ MethodBlank} = \frac{|\ Sample\ -\ Blank\ |}{\sqrt{(U_{Sample}\ )^2 + (U_{Blank}\ )^2}}$$

Where:

U_{Sample} = uncertainty of the sample

U_{Blank} = uncertainty of the blank

Sample = concentration of isotope in sample

Blank = concentration of isotope in blank

Normalized Absolute Difference	Qualification
> 2.58	None
1.96 > x < 2.58	J
x < 1.96	J*

Note:
* = Minimally the result should be qualified as estimated, J; however, if other quality indicators are deficient the validator may determine the result should be qualified as rejected, R

Radium-226 and Radium-228 were detected in the method blanks, equipment blank, and field blank, however, the activity was measured as less than the uncertainty and MDC. Hence, the blank results are considered non-detect and no qualification of the results was required.

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 on a sample from this SDG.

4. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. There are no specific review criteria for radiological field replicate analyses comparability. The degree of agreement between these replicates is to be used in conjunction with all of the remaining quality control results as an aid in the decision as to the overall quality of the data. Data are not to be qualified due to field replicates alone. To determine the level of agreement between the replicates, the following guidelines have been established:

Data should be considered in agreement if results are within a factor of four of each other. Data between a factor of four and five of each other should be considered as a minor discrepancy and data greater than a factor of five should be considered a major discrepancy.

The field duplicate sample results are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YAT-YGWC-50 / YAT-AMA-R6-FD-1	Radium-226	0.228 U ± 0.153	-0.0284 U ± 0.127	AC
	Radium-228	0.600 U ± 0.395	0.375 U ± 0.370	
	Total Radium	0.828 U ± 0.548	0.375 U ± 0.497	

Note:
AC = Acceptable

The differences in the results between the parent sample YAT-YGWC-50 and field duplicate sample YAT-AMA-R6-FD-1 were acceptable.

5. Tracer or Carrier

Tracers and carriers are used in radiological separation methods to provide evaluation of chemical separation. Chemical yield is evaluated through the recovery of chemical species spiked into samples. Yield is evaluated radiometrically with a tracer and gravimetrically with a carrier. A control limit of 30% to 110% is applied to each sample spiked with either a carrier and/or a tracer.

The tracer and carrier analyses exhibited recoveries within the control limits.

6. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS/LCSD analysis must exhibit a percent recovery between the control limits of 60% to 135%. In the event the recovery is outside of this limit, a numerical indicator to make assessments is calculated, with a limit of +/- 3 sigma.

The numerical performance indicator for a laboratory control sample is calculated by:

$$Z_{LCS} = \frac{x - c}{\sqrt{u^2(x) + u^2(c)}}$$

Where:

x = Analytical result of the LCS

c = Known concentration of the LCS

$u^2(x)$ = combined standard uncertainty of the result squared.

$u^2(c)$ = combined standard uncertainty of the LCS value squared.

LCS performance is acceptable when the numerical performance indicator calculation yields a value between ±3 sigma. Warning limits have been established as ±2 sigma.

The LCS/LCSD analysis exhibited recoveries within the control limits.

7. Isotope Identification

For sample results to be considered “non-detect”, evaluate data based on the following two criteria. If either one of these criteria is true, the sample result is considered “non-detect”.

1. Sample result is less than the uncertainty and less than the MDC/MDA; or
2. Sample has an uncertainty greater than the result (or indistinguishable from background) or result falls between its uncertainty and its MDC/MDA.

Based on the above criteria sample results were qualified as “U” by the laboratory as applicable.

8. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for Radiologicals

Radiologicals: SW-846 9315/9320	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding Times		X		X	
Activity, +/- uncertainty, MDC/MDA		X		X	
Blanks					
A. Method Blanks		X		X	
B. Equipment/Field Blanks		X		X	
Carrier (Surrogate) %R		X		X	
Tracer (Surrogate) %R		X		X	
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate (LCSD) %R		X		X	
LCS/LCSD Precision (RPD)		X		X	
Matrix Spike (MS) %R	X				X
Matrix Spike Duplicate (MSD) %R	X				X
MS/MSD Precision (RPD)	X				X
Laboratory Duplicate (RPD)	X				X
Field Duplicate (RPD)		X		X	

Notes:
%R Percent recovery
RPD Relative percent difference

VALIDATION PERFORMED BY: Jennifer Singer

SIGNATURE: 

DATE: July 18, 2024

PEER REVIEW: Joseph C. Houser

DATE: July 23, 2024

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

92736140

Company Name:	Southern Company	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-OTH-20240610	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', R6		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____
Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [ ] No
Analysis:

Specify Container Size **: 3 3 2 1 3
Identify Container Preservative Type***: 2 1 1 2 2
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Bonnie Vang
Acct/Num / Client ID:
Tabs #:
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	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/9320	APP III/IV Metals (Field Filtered)	Sample Comment
YAT-YGWC-50	WG	G	6/10/24	1405	--	--		5		X	X	X	X		See Remarks 001
YAT-AMA-R6-FB-1	WG	G	6/10/24	1400	--	--		5		X	X	X	X		See Remarks 002
YAT-AMA-R6-EB-1	WG	G	6/10/24	1500	--	--		5		X	X	X	X		See Remarks 003
YAT-AMA-R6-FD-1	WG	G	6/10/24	—	--	--		5		X	X	X	X		See Remarks 004
YAT-PZ-54D	WG	G	6/12/24	0818	--	--		5		X	X	X	X	X	See Remarks 005

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg

Collected By:
Printed Name: (Arcadis) - Jessica Warn
Signature: (Arcadis) - Jessica Warn

Additional Instructions from Pace®:
YAT-PZ-54D only contains 1 Ra liter container, metals bottle additional Field Filtered

# 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 Warn / Arcadis	6/12/24 0939	Ryan Williams / Pace	6/12/24 0939
Ryan Williams / Pace	6/12/24 1235		6/12/24 1235
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other

Page: of

SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier	Reason for Validation Qualifier
92736140	YAT-YGWC-50	SW846 6020B	Lead	0.0010	mg/L	UB	Blank contamination
		EPA 300.0	Fluoride	0.1100	mg/L	J	MSD %R
	YAT-AMA-R6-FD-1	SW846 6020B	Lead	0.0010	mg/L	UB	Blank contamination
	YAT-PZ-54D	SW846 6020B	Molybdenum	0.064	mg/L	J	Total vs. Dissolved %D
			Molybdenum, Dissolved	0.084	mg/L	J	Total vs. Dissolved %D
92736155	No qualifiers assigned						

Abbreviations:
%D = percent difference
%R = percent recovery
mg/L = milligrams per liter
MSD = matrix spike duplicate

Qualifiers:
J = estimated result
UB = not detected due to blank contamination

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

June 26, 2024

Lauren Hartley
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92736140

Dear Lauren Hartley:

Enclosed are the analytical results for sample(s) received by the laboratory on June 12, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Peachtree Corners, GA

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
Becky Steever, Arcadis
Jessica Ware, Arcadis
Albert Zumbuhl, Arcadis

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92736140

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92736140

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92736140001	**YAT-YGWC-50**	Water	06/10/24 14:05	06/12/24 09:39
92736140002	**YAT-AMA-R6-FB-1**	Water	06/10/24 14:00	06/12/24 09:39
92736140003	**YAT-AMA-R6-EB-1**	Water	06/10/24 15:00	06/12/24 09:39
92736140004	**YAT-AMA-R6-FD-1**	Water	06/10/24 00:00	06/12/24 09:39
92736140005	**YAT-PZ-54D**	Water	06/12/24 08:18	06/12/24 09:39

Pace Analytical Services, LLC
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SAMPLE ANALYTE COUNT

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92736140

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92736140001	**YAT-YGWC-50**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92736140002	**YAT-AMA-R6-FB-1**	EPA 6010D	MJS2	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92736140003	**YAT-AMA-R6-EB-1**	EPA 6010D	MJS2	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92736140004	**YAT-AMA-R6-FD-1**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92736140005	**YAT-PZ-54D**	EPA 6010D	MJS2	1
		EPA 6010D	MJS2	1
		EPA 6020B	CW1	13
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3

PASI-A = Pace Analytical Services - Asheville
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92736140

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92736140001	**YAT-YGWC-50**					
EPA 6010D	Calcium	57.5	mg/L	1.0	06/18/24 22:18	
EPA 6020B	Antimony	0.0034	mg/L	0.0030	06/14/24 13:12	
EPA 6020B	Arsenic	0.0014J	mg/L	0.0050	06/14/24 13:12	
EPA 6020B	Barium	0.016	mg/L	0.0050	06/14/24 13:12	
EPA 6020B	Beryllium	0.0046	mg/L	0.00050	06/14/24 13:12	
EPA 6020B	Boron	20.0	mg/L	2.0	06/17/24 18:13	
EPA 6020B	Cadmium	0.013	mg/L	0.00050	06/14/24 13:12	
EPA 6020B	Cobalt	0.0055	mg/L	0.0050	06/14/24 13:12	
EPA 6020B	Lead	0.00042J	mg/L	0.0010	06/14/24 13:12	
EPA 6020B	Lithium	0.0033J	mg/L	0.030	06/14/24 13:12	
EPA 6020B	Selenium	0.0012J	mg/L	0.0050	06/14/24 13:12	
SM 2540C-2015	Total Dissolved Solids	2030	mg/L	25.0	06/13/24 11:09	1g
EPA 300.0 Rev 2.1 1993	Chloride	9.9	mg/L	1.0	06/12/24 22:53	
EPA 300.0 Rev 2.1 1993	Fluoride	0.11	mg/L	0.10	06/12/24 22:53	M1, R1
EPA 300.0 Rev 2.1 1993	Sulfate	1130	mg/L	24.0	06/13/24 04:32	M1
92736140003	**YAT-AMA-R6-EB-1**					
EPA 6020B	Lead	0.0010	mg/L	0.0010	06/14/24 13:19	
SM 2540C-2015	Total Dissolved Solids	39.0	mg/L	25.0	06/15/24 13:26	D6
92736140004	**YAT-AMA-R6-FD-1**					
EPA 6010D	Calcium	58.8	mg/L	1.0	06/18/24 22:23	
EPA 6020B	Antimony	0.0028J	mg/L	0.0030	06/14/24 13:23	
EPA 6020B	Arsenic	0.0013J	mg/L	0.0050	06/14/24 13:23	
EPA 6020B	Barium	0.016	mg/L	0.0050	06/14/24 13:23	
EPA 6020B	Beryllium	0.0045	mg/L	0.00050	06/14/24 13:23	
EPA 6020B	Boron	20.7	mg/L	2.0	06/17/24 18:17	
EPA 6020B	Cadmium	0.013	mg/L	0.00050	06/14/24 13:23	
EPA 6020B	Cobalt	0.0054	mg/L	0.0050	06/14/24 13:23	
EPA 6020B	Lead	0.00036J	mg/L	0.0010	06/14/24 13:23	
EPA 6020B	Lithium	0.0032J	mg/L	0.030	06/14/24 13:23	
EPA 6020B	Selenium	0.0017J	mg/L	0.0050	06/14/24 13:23	
SM 2540C-2015	Total Dissolved Solids	2040	mg/L	25.0	06/13/24 11:10	1g
EPA 300.0 Rev 2.1 1993	Chloride	9.9	mg/L	1.0	06/12/24 23:36	
EPA 300.0 Rev 2.1 1993	Fluoride	0.23	mg/L	0.10	06/12/24 23:36	
EPA 300.0 Rev 2.1 1993	Sulfate	1130	mg/L	24.0	06/13/24 05:15	
92736140005	**YAT-PZ-54D**					
EPA 6010D	Calcium	38.4	mg/L	1.0	06/13/24 15:45	
EPA 6010D	Calcium, Dissolved	18.1	mg/L	1.0	06/13/24 20:48	
EPA 6020B	Antimony	0.0013J	mg/L	0.0030	06/14/24 14:26	
EPA 6020B	Arsenic	0.012	mg/L	0.0050	06/14/24 14:26	
EPA 6020B	Barium	0.92	mg/L	0.0050	06/14/24 14:26	
EPA 6020B	Beryllium	0.0033	mg/L	0.00050	06/14/24 14:26	
EPA 6020B	Boron	2.8	mg/L	0.20	06/17/24 18:21	
EPA 6020B	Cadmium	0.00042J	mg/L	0.00050	06/14/24 14:26	
EPA 6020B	Chromium	0.011	mg/L	0.0050	06/14/24 14:26	
EPA 6020B	Cobalt	0.0033J	mg/L	0.0050	06/14/24 14:26	
EPA 6020B	Lead	0.047	mg/L	0.0010	06/14/24 14:26	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92736140

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92736140005	**YAT-PZ-54D**					
EPA 6020B	Lithium	0.022J	mg/L	0.030	06/14/24 14:26	
EPA 6020B	Molybdenum	0.064	mg/L	0.010	06/14/24 14:26	
EPA 6020B	Selenium	0.0056	mg/L	0.0050	06/14/24 14:26	
EPA 6020B	Thallium	0.00038J	mg/L	0.0010	06/14/24 14:26	
EPA 6020B	Antimony, Dissolved	0.0019J	mg/L	0.0030	06/18/24 13:45	
EPA 6020B	Barium, Dissolved	0.027	mg/L	0.0050	06/18/24 13:45	
EPA 6020B	Boron, Dissolved	2.6	mg/L	0.040	06/18/24 13:45	
EPA 6020B	Lithium, Dissolved	0.014J	mg/L	0.030	06/18/24 13:45	
EPA 6020B	Molybdenum, Dissolved	0.084	mg/L	0.010	06/18/24 13:45	
EPA 6020B	Selenium, Dissolved	0.0011J	mg/L	0.0050	06/18/24 13:45	
SM 2540C-2015	Total Dissolved Solids	775	mg/L	125	06/14/24 14:43	
EPA 300.0 Rev 2.1 1993	Chloride	2.8	mg/L	1.0	06/12/24 23:50	
EPA 300.0 Rev 2.1 1993	Fluoride	0.39	mg/L	0.10	06/12/24 23:50	
EPA 300.0 Rev 2.1 1993	Sulfate	177	mg/L	4.0	06/13/24 05:29	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92736140

Sample: YAT-YGWC-50 **Lab ID: 92736140001** Collected: 06/10/24 14:05 Received: 06/12/24 09:39 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**57.5**	mg/L	1.0	0.12	1	06/12/24 18:30	06/18/24 22:18	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0034**	mg/L	0.0030	0.00054	1	06/13/24 16:43	06/14/24 13:12	7440-36-0	
Arsenic	**0.0014J**	mg/L	0.0050	0.00084	1	06/13/24 16:43	06/14/24 13:12	7440-38-2	
Barium	**0.016**	mg/L	0.0050	0.00047	1	06/13/24 16:43	06/14/24 13:12	7440-39-3	
Beryllium	**0.0046**	mg/L	0.00050	0.000094	1	06/13/24 16:43	06/14/24 13:12	7440-41-7	
Boron	**20.0**	mg/L	2.0	0.60	50	06/13/24 16:43	06/17/24 18:13	7440-42-8	
Cadmium	**0.013**	mg/L	0.00050	0.00010	1	06/13/24 16:43	06/14/24 13:12	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	06/13/24 16:43	06/14/24 13:12	7440-47-3	
Cobalt	**0.0055**	mg/L	0.0050	0.00032	1	06/13/24 16:43	06/14/24 13:12	7440-48-4	
Lead	**0.00042J**	mg/L	0.0010	0.00016	1	06/13/24 16:43	06/14/24 13:12	7439-92-1	
Lithium	**0.0033J**	mg/L	0.030	0.0016	1	06/13/24 16:43	06/14/24 13:12	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	06/13/24 16:43	06/14/24 13:12	7439-98-7	
Selenium	**0.0012J**	mg/L	0.0050	0.00096	1	06/13/24 16:43	06/14/24 13:12	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	06/13/24 16:43	06/14/24 13:12	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	06/20/24 09:30	06/20/24 14:56	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**2030**	mg/L	25.0	25.0	1		06/13/24 11:09		1g
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**9.9**	mg/L	1.0	0.60	1		06/12/24 22:53	16887-00-6	
Fluoride	**0.11**	mg/L	0.10	0.050	1		06/12/24 22:53	16984-48-8	M1,R1
Sulfate	**1130**	mg/L	24.0	12.0	24		06/13/24 04:32	14808-79-8	M1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92736140

Sample: YAT-AMA-R6-FB-1 **Lab ID: 92736140002** Collected: 06/10/24 14:00 Received: 06/12/24 09:39 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.12	1	06/12/24 18:30	06/13/24 15:31	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	06/13/24 16:43	06/14/24 13:15	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	06/13/24 16:43	06/14/24 13:15	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	06/13/24 16:43	06/14/24 13:15	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	06/13/24 16:43	06/14/24 13:15	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	06/13/24 16:43	06/17/24 17:56	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	06/13/24 16:43	06/14/24 13:15	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	06/13/24 16:43	06/14/24 13:15	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	06/13/24 16:43	06/14/24 13:15	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	06/13/24 16:43	06/14/24 13:15	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	06/13/24 16:43	06/14/24 13:15	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	06/13/24 16:43	06/14/24 13:15	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	06/13/24 16:43	06/14/24 13:15	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	06/13/24 16:43	06/14/24 13:15	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	06/20/24 09:30	06/20/24 15:04	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		06/13/24 11:09		
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		06/12/24 22:24	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		06/12/24 22:24	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		06/12/24 22:24	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92736140

Sample: YAT-AMA-R6-EB-1 **Lab ID: 92736140003** Collected: 06/10/24 15:00 Received: 06/12/24 09:39 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.12	1	06/12/24 18:30	06/13/24 15:35	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	06/13/24 16:43	06/14/24 13:19	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	06/13/24 16:43	06/14/24 13:19	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	06/13/24 16:43	06/14/24 13:19	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	06/13/24 16:43	06/14/24 13:19	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	06/13/24 16:43	06/17/24 18:00	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	06/13/24 16:43	06/14/24 13:19	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	06/13/24 16:43	06/14/24 13:19	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	06/13/24 16:43	06/14/24 13:19	7440-48-4	
Lead	**0.0010**	mg/L	0.0010	0.00016	1	06/13/24 16:43	06/14/24 13:19	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	06/13/24 16:43	06/14/24 13:19	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	06/13/24 16:43	06/14/24 13:19	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	06/13/24 16:43	06/14/24 13:19	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	06/13/24 16:43	06/14/24 13:19	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	06/20/24 09:30	06/20/24 15:14	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**39.0**	mg/L	25.0	25.0	1		06/15/24 13:26		D6
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		06/12/24 22:39	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		06/12/24 22:39	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		06/12/24 22:39	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92736140

Sample: YAT-AMA-R6-FD-1 **Lab ID: 92736140004** Collected: 06/10/24 00:00 Received: 06/12/24 09:39 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**58.8**	mg/L	1.0	0.12	1	06/12/24 18:30	06/18/24 22:23	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0028J**	mg/L	0.0030	0.00054	1	06/13/24 16:43	06/14/24 13:23	7440-36-0	
Arsenic	**0.0013J**	mg/L	0.0050	0.00084	1	06/13/24 16:43	06/14/24 13:23	7440-38-2	
Barium	**0.016**	mg/L	0.0050	0.00047	1	06/13/24 16:43	06/14/24 13:23	7440-39-3	
Beryllium	**0.0045**	mg/L	0.00050	0.000094	1	06/13/24 16:43	06/14/24 13:23	7440-41-7	
Boron	**20.7**	mg/L	2.0	0.60	50	06/13/24 16:43	06/17/24 18:17	7440-42-8	
Cadmium	**0.013**	mg/L	0.00050	0.00010	1	06/13/24 16:43	06/14/24 13:23	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	06/13/24 16:43	06/14/24 13:23	7440-47-3	
Cobalt	**0.0054**	mg/L	0.0050	0.00032	1	06/13/24 16:43	06/14/24 13:23	7440-48-4	
Lead	**0.00036J**	mg/L	0.0010	0.00016	1	06/13/24 16:43	06/14/24 13:23	7439-92-1	
Lithium	**0.0032J**	mg/L	0.030	0.0016	1	06/13/24 16:43	06/14/24 13:23	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	06/13/24 16:43	06/14/24 13:23	7439-98-7	
Selenium	**0.0017J**	mg/L	0.0050	0.00096	1	06/13/24 16:43	06/14/24 13:23	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	06/13/24 16:43	06/14/24 13:23	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	06/20/24 09:30	06/20/24 15:17	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**2040**	mg/L	25.0	25.0	1		06/13/24 11:10		1g
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**9.9**	mg/L	1.0	0.60	1		06/12/24 23:36	16887-00-6	
Fluoride	**0.23**	mg/L	0.10	0.050	1		06/12/24 23:36	16984-48-8	
Sulfate	**1130**	mg/L	24.0	12.0	24		06/13/24 05:15	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92736140

Sample: YAT-PZ-54D **Lab ID: 92736140005** Collected: 06/12/24 08:18 Received: 06/12/24 09:39 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**38.4**	mg/L	1.0	0.12	1	06/12/24 18:30	06/13/24 15:45	7440-70-2	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium, Dissolved	**18.1**	mg/L	1.0	0.12	1	06/13/24 12:29	06/13/24 20:48	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0013J**	mg/L	0.0030	0.00054	1	06/13/24 16:43	06/14/24 14:26	7440-36-0	
Arsenic	**0.012**	mg/L	0.0050	0.00084	1	06/13/24 16:43	06/14/24 14:26	7440-38-2	
Barium	**0.92**	mg/L	0.0050	0.00047	1	06/13/24 16:43	06/14/24 14:26	7440-39-3	
Beryllium	**0.0033**	mg/L	0.00050	0.000094	1	06/13/24 16:43	06/14/24 14:26	7440-41-7	
Boron	**2.8**	mg/L	0.20	0.060	5	06/13/24 16:43	06/17/24 18:21	7440-42-8	
Cadmium	**0.00042J**	mg/L	0.00050	0.00010	1	06/13/24 16:43	06/14/24 14:26	7440-43-9	
Chromium	**0.011**	mg/L	0.0050	0.0019	1	06/13/24 16:43	06/14/24 14:26	7440-47-3	
Cobalt	**0.0033J**	mg/L	0.0050	0.00032	1	06/13/24 16:43	06/14/24 14:26	7440-48-4	
Lead	**0.047**	mg/L	0.0010	0.00016	1	06/13/24 16:43	06/14/24 14:26	7439-92-1	
Lithium	**0.022J**	mg/L	0.030	0.0016	1	06/13/24 16:43	06/14/24 14:26	7439-93-2	
Molybdenum	**0.064**	mg/L	0.010	0.00062	1	06/13/24 16:43	06/14/24 14:26	7439-98-7	
Selenium	**0.0056**	mg/L	0.0050	0.00096	1	06/13/24 16:43	06/14/24 14:26	7782-49-2	
Thallium	**0.00038J**	mg/L	0.0010	0.00038	1	06/13/24 16:43	06/14/24 14:26	7440-28-0	
6020 MET ICPMS, Dissolved	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony, Dissolved	**0.0019J**	mg/L	0.0030	0.00054	1	06/13/24 12:29	06/18/24 13:45	7440-36-0	
Arsenic, Dissolved	ND	mg/L	0.0050	0.00084	1	06/13/24 12:29	06/18/24 13:45	7440-38-2	
Barium, Dissolved	**0.027**	mg/L	0.0050	0.00047	1	06/13/24 12:29	06/18/24 13:45	7440-39-3	
Beryllium, Dissolved	ND	mg/L	0.00050	0.000094	1	06/13/24 12:29	06/18/24 13:45	7440-41-7	
Boron, Dissolved	**2.6**	mg/L	0.040	0.012	1	06/13/24 12:29	06/18/24 13:45	7440-42-8	
Cadmium, Dissolved	ND	mg/L	0.00050	0.00010	1	06/13/24 12:29	06/18/24 13:45	7440-43-9	
Chromium, Dissolved	ND	mg/L	0.0050	0.0019	1	06/13/24 12:29	06/18/24 13:45	7440-47-3	
Cobalt, Dissolved	ND	mg/L	0.0050	0.00032	1	06/13/24 12:29	06/18/24 13:45	7440-48-4	
Lead, Dissolved	ND	mg/L	0.0010	0.00016	1	06/13/24 12:29	06/18/24 13:45	7439-92-1	
Lithium, Dissolved	**0.014J**	mg/L	0.030	0.0016	1	06/13/24 12:29	06/18/24 13:45	7439-93-2	
Molybdenum, Dissolved	**0.084**	mg/L	0.010	0.00062	1	06/13/24 12:29	06/18/24 13:45	7439-98-7	
Selenium, Dissolved	**0.0011J**	mg/L	0.0050	0.00096	1	06/13/24 12:29	06/18/24 13:45	7782-49-2	
Thallium, Dissolved	ND	mg/L	0.0010	0.00038	1	06/13/24 12:29	06/18/24 13:45	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	06/20/24 09:30	06/20/24 15:19	7439-97-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92736140

Sample: YAT-PZ-54D **Lab ID: 92736140005** Collected: 06/12/24 08:18 Received: 06/12/24 09:39 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury, Dissolved	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury, Dissolved	ND	mg/L	0.00020	0.00013	1	06/18/24 10:30	06/18/24 16:05	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**775**	mg/L	125	125	1		06/14/24 14:43		
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		06/12/24 23:50	16887-00-6	
Fluoride	**0.39**	mg/L	0.10	0.050	1		06/12/24 23:50	16984-48-8	
Sulfate	**177**	mg/L	4.0	2.0	4		06/13/24 05:29	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92736140

QC Batch: 861024
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92736140001, 92736140002, 92736140003, 92736140004, 92736140005

METHOD BLANK: 4440833 Matrix: Water
Associated Lab Samples: 92736140001, 92736140002, 92736140003, 92736140004, 92736140005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	06/13/24 14:13	

LABORATORY CONTROL SAMPLE: 4440834

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.99J	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4440835 4440836

Parameter	Units	92735723003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	1240 ug/L	1	1	2.1	2.1	89	84	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92736140

QC Batch: 861221
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010 MET Filtered Diss.
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92736140005

METHOD BLANK: 4441665 Matrix: Water
Associated Lab Samples: 92736140005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium, Dissolved	mg/L	ND	1.0	0.12	06/13/24 20:39	

LABORATORY CONTROL SAMPLE: 4441666

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium, Dissolved	mg/L	1	0.93J	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4441667 4441668

Parameter	Units	92736140005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium, Dissolved	mg/L	18.1	1	1	19.2	19.2	109	106	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92736140

QC Batch: 861341
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92736140001, 92736140002, 92736140003, 92736140004, 92736140005

METHOD BLANK: 4442458 Matrix: Water
Associated Lab Samples: 92736140001, 92736140002, 92736140003, 92736140004, 92736140005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	06/14/24 12:49	
Arsenic	mg/L	ND	0.0050	0.00084	06/14/24 12:49	
Barium	mg/L	ND	0.0050	0.00047	06/14/24 12:49	
Beryllium	mg/L	ND	0.00050	0.000094	06/14/24 12:49	
Boron	mg/L	ND	0.040	0.012	06/17/24 17:48	
Cadmium	mg/L	ND	0.00050	0.00010	06/14/24 12:49	
Chromium	mg/L	ND	0.0050	0.0019	06/14/24 12:49	
Cobalt	mg/L	ND	0.0050	0.00032	06/14/24 12:49	
Lead	mg/L	ND	0.0010	0.00016	06/14/24 12:49	
Lithium	mg/L	ND	0.030	0.0016	06/14/24 12:49	
Molybdenum	mg/L	ND	0.010	0.00062	06/14/24 12:49	
Selenium	mg/L	ND	0.0050	0.00096	06/14/24 12:49	
Thallium	mg/L	ND	0.0010	0.00038	06/14/24 12:49	

LABORATORY CONTROL SAMPLE: 4442459

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	106	80-120	
Arsenic	mg/L	0.1	0.10	101	80-120	
Barium	mg/L	0.1	0.097	97	80-120	
Beryllium	mg/L	0.1	0.10	102	80-120	
Boron	mg/L	1	1.0	104	80-120	
Cadmium	mg/L	0.1	0.10	102	80-120	
Chromium	mg/L	0.1	0.10	102	80-120	
Cobalt	mg/L	0.1	0.10	101	80-120	
Lead	mg/L	0.1	0.10	102	80-120	
Lithium	mg/L	0.1	0.10	103	80-120	
Molybdenum	mg/L	0.1	0.11	106	80-120	
Selenium	mg/L	0.1	0.10	102	80-120	
Thallium	mg/L	0.1	0.10	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4442460 4442461

Parameter	Units	92736255001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	101	101	75-125	0	20	
Arsenic	mg/L	0.88J ug/L	0.1	0.1	0.10	0.10	100	99	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92736140

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4442460 4442461

Parameter	Units	92736255001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	4.3J ug/L	0.1	0.1	0.096	0.098	92	93	75-125	1	20	
Beryllium	mg/L	ND	0.1	0.1	0.098	0.10	98	100	75-125	2	20	
Boron	mg/L	14.1J ug/L	1	1	0.92	0.92	91	91	75-125	1	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	100	101	75-125	1	20	
Chromium	mg/L	0.012	0.1	0.1	0.11	0.11	100	101	75-125	1	20	
Cobalt	mg/L	ND	0.1	0.1	0.099	0.10	98	101	75-125	2	20	
Lead	mg/L	ND	0.1	0.1	0.096	0.097	96	97	75-125	1	20	
Lithium	mg/L	ND	0.1	0.1	0.10	0.10	100	99	75-125	1	20	
Molybdenum	mg/L	6.0J ug/L	0.1	0.1	0.11	0.11	102	101	75-125	1	20	
Selenium	mg/L	ND	0.1	0.1	0.099	0.099	99	99	75-125	0	20	
Thallium	mg/L	ND	0.1	0.1	0.095	0.096	95	95	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92736140

QC Batch: 861220
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET Dissolved
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92736140005

METHOD BLANK: 4441660 Matrix: Water
Associated Lab Samples: 92736140005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony, Dissolved	mg/L	ND	0.0030	0.00054	06/18/24 13:38	
Arsenic, Dissolved	mg/L	ND	0.0050	0.00084	06/18/24 13:38	
Barium, Dissolved	mg/L	ND	0.0050	0.00047	06/18/24 13:38	
Beryllium, Dissolved	mg/L	ND	0.00050	0.000094	06/18/24 13:38	
Boron, Dissolved	mg/L	ND	0.040	0.012	06/18/24 13:38	
Cadmium, Dissolved	mg/L	ND	0.00050	0.00010	06/18/24 13:38	
Chromium, Dissolved	mg/L	ND	0.0050	0.0019	06/18/24 13:38	
Cobalt, Dissolved	mg/L	ND	0.0050	0.00032	06/18/24 13:38	
Lead, Dissolved	mg/L	ND	0.0010	0.00016	06/18/24 13:38	
Lithium, Dissolved	mg/L	ND	0.030	0.0016	06/18/24 13:38	
Molybdenum, Dissolved	mg/L	ND	0.010	0.00062	06/18/24 13:38	
Selenium, Dissolved	mg/L	ND	0.0050	0.00096	06/18/24 13:38	
Thallium, Dissolved	mg/L	ND	0.0010	0.00038	06/18/24 13:38	

LABORATORY CONTROL SAMPLE: 4441661

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony, Dissolved	mg/L	0.1	0.10	102	80-120	
Arsenic, Dissolved	mg/L	0.1	0.091	91	80-120	
Barium, Dissolved	mg/L	0.1	0.096	96	80-120	
Beryllium, Dissolved	mg/L	0.1	0.098	98	80-120	
Boron, Dissolved	mg/L	1	0.93	93	80-120	
Cadmium, Dissolved	mg/L	0.1	0.097	97	80-120	
Chromium, Dissolved	mg/L	0.1	0.097	97	80-120	
Cobalt, Dissolved	mg/L	0.1	0.096	96	80-120	
Lead, Dissolved	mg/L	0.1	0.099	99	80-120	
Lithium, Dissolved	mg/L	0.1	0.099	99	80-120	
Molybdenum, Dissolved	mg/L	0.1	0.10	103	80-120	
Selenium, Dissolved	mg/L	0.1	0.091	91	80-120	
Thallium, Dissolved	mg/L	0.1	0.098	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4441662 4441663

Parameter	Units	92736140005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony, Dissolved	mg/L	0.0019J	0.1	0.1	0.11	0.10	104	101	75-125	3	20	
Arsenic, Dissolved	mg/L	ND	0.1	0.1	0.10	0.099	103	99	75-125	4	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92736140

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4441662 4441663

Parameter	Units	92736140005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium, Dissolved	mg/L	0.027	0.1	0.1	0.13	0.12	101	95	75-125	4	20	
Beryllium, Dissolved	mg/L	ND	0.1	0.1	0.10	0.096	102	96	75-125	6	20	
Boron, Dissolved	mg/L	2.8	1	1	3.7	3.6	114	100	75-125	4	20	
Cadmium, Dissolved	mg/L	ND	0.1	0.1	0.10	0.098	101	98	75-125	2	20	
Chromium, Dissolved	mg/L	ND	0.1	0.1	0.10	0.098	103	98	75-125	5	20	
Cobalt, Dissolved	mg/L	ND	0.1	0.1	0.10	0.097	101	97	75-125	4	20	
Lead, Dissolved	mg/L	ND	0.1	0.1	0.097	0.094	97	94	75-125	4	20	
Lithium, Dissolved	mg/L	0.014J	0.1	0.1	0.12	0.11	104	99	75-125	4	20	
Molybdenum, Dissolved	mg/L	0.084	0.1	0.1	0.20	0.19	112	107	75-125	2	20	
Selenium, Dissolved	mg/L	0.0011J	0.1	0.1	0.10	0.099	100	98	75-125	3	20	
Thallium, Dissolved	mg/L	ND	0.1	0.1	0.096	0.093	96	93	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92736140

QC Batch: 862755
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92736140001, 92736140002, 92736140003, 92736140004, 92736140005

METHOD BLANK: 4448790 Matrix: Water
Associated Lab Samples: 92736140001, 92736140002, 92736140003, 92736140004, 92736140005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	06/20/24 14:50	

LABORATORY CONTROL SAMPLE: 4448791

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: 4448792 4448793

Parameter	Units	92736140002 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	0.0021	95	86	75-125	10	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92736140

QC Batch: 861900
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury Dissolved
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92736140005

METHOD BLANK: 4444897 Matrix: Water
Associated Lab Samples: 92736140005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury, Dissolved	mg/L	ND	0.00020	0.00013	06/18/24 14:51	

LABORATORY CONTROL SAMPLE: 4444898

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	mg/L	0.0025	0.0025	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4444899 4444900

Parameter	Units	92736728002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	mg/L	ND	0.0025	0.0025	0.0025	0.0024	99	96	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92736140

QC Batch: 861151
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92736140001, 92736140002, 92736140004

METHOD BLANK: 4441188 Matrix: Water
Associated Lab Samples: 92736140001, 92736140002, 92736140004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	06/13/24 11:08	

LABORATORY CONTROL SAMPLE: 4441189

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	396	99	80-120	

SAMPLE DUPLICATE: 4441190

Parameter	Units	92736140001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2030	2040	0	10	1g

SAMPLE DUPLICATE: 4441191

Parameter	Units	92735710005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	198	194	2	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92736140

QC Batch: 861515
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92736140005

METHOD BLANK: 4443136 Matrix: Water
Associated Lab Samples: 92736140005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	06/14/24 14:39	

LABORATORY CONTROL SAMPLE: 4443137

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	400	100	80-120	

SAMPLE DUPLICATE: 4443138

Parameter	Units	92736164001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1380	1360	1	10	

SAMPLE DUPLICATE: 4443139

Parameter	Units	92736082007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	442	483	9	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92736140

QC Batch: 861762
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92736140003

METHOD BLANK: 4444511 Matrix: Water
Associated Lab Samples: 92736140003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	06/15/24 13:25	

LABORATORY CONTROL SAMPLE: 4444512

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	398	100	80-120	

SAMPLE DUPLICATE: 4444513

Parameter	Units	92736140003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	39.0	46.0	16	10	D6

SAMPLE DUPLICATE: 4444514

Parameter	Units	92736779006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	158	155	2	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92736140

QC Batch: 861029
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: 92736140001, 92736140002, 92736140003, 92736140004, 92736140005

METHOD BLANK: 4440847 Matrix: Water
Associated Lab Samples: 92736140001, 92736140002, 92736140003, 92736140004, 92736140005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	06/12/24 21:56	
Fluoride	mg/L	ND	0.10	0.050	06/12/24 21:56	
Sulfate	mg/L	ND	1.0	0.50	06/12/24 21:56	

LABORATORY CONTROL SAMPLE: 4440848

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.6	103	90-110	
Fluoride	mg/L	2.5	2.7	108	90-110	
Sulfate	mg/L	50	51.6	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4440849 4440850

Parameter	Units	92736140001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	9.9	50	50	59.5	64.4	99	109	90-110	8	10	
Fluoride	mg/L	0.11	2.5	2.5	3.2	3.6	123	139	90-110	12	10	M1,R1
Sulfate	mg/L	1130	50	50	1170	1170	84	80	90-110	0	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4440992 4440993

Parameter	Units	92736142003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	46.0	50	50	96.2	89.0	101	86	90-110	8	10	M1
Fluoride	mg/L	ND	2.5	2.5	1.4	1.5	56	62	90-110	10	10	M1
Sulfate	mg/L	27.9	50	50	78.5	82.6	101	109	90-110	5	10	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92736140

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1g	Sample residue exceeded method SM 2540C recommended 200 mg
D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92736140

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92736140001	**YAT-YGWC-50**	EPA 3010A	861024	EPA 6010D	861047
92736140002	**YAT-AMA-R6-FB-1**	EPA 3010A	861024	EPA 6010D	861047
92736140003	**YAT-AMA-R6-EB-1**	EPA 3010A	861024	EPA 6010D	861047
92736140004	**YAT-AMA-R6-FD-1**	EPA 3010A	861024	EPA 6010D	861047
92736140005	**YAT-PZ-54D**	EPA 3010A	861024	EPA 6010D	861047
92736140005	**YAT-PZ-54D**	EPA 3010A	861221	EPA 6010D	861290
92736140001	**YAT-YGWC-50**	EPA 3005A	861341	EPA 6020B	861390
92736140002	**YAT-AMA-R6-FB-1**	EPA 3005A	861341	EPA 6020B	861390
92736140003	**YAT-AMA-R6-EB-1**	EPA 3005A	861341	EPA 6020B	861390
92736140004	**YAT-AMA-R6-FD-1**	EPA 3005A	861341	EPA 6020B	861390
92736140005	**YAT-PZ-54D**	EPA 3005A	861341	EPA 6020B	861390
92736140005	**YAT-PZ-54D**	EPA 3005A	861220	EPA 6020B	861369
92736140001	**YAT-YGWC-50**	EPA 7470A	862755	EPA 7470A	862859
92736140002	**YAT-AMA-R6-FB-1**	EPA 7470A	862755	EPA 7470A	862859
92736140003	**YAT-AMA-R6-EB-1**	EPA 7470A	862755	EPA 7470A	862859
92736140004	**YAT-AMA-R6-FD-1**	EPA 7470A	862755	EPA 7470A	862859
92736140005	**YAT-PZ-54D**	EPA 7470A	862755	EPA 7470A	862859
92736140005	**YAT-PZ-54D**	EPA 7470A	861900	EPA 7470A	862234
92736140001	**YAT-YGWC-50**	SM 2540C-2015	861151		
92736140002	**YAT-AMA-R6-FB-1**	SM 2540C-2015	861151		
92736140003	**YAT-AMA-R6-EB-1**	SM 2540C-2015	861762		
92736140004	**YAT-AMA-R6-FD-1**	SM 2540C-2015	861151		
92736140005	**YAT-PZ-54D**	SM 2540C-2015	861515		
92736140001	**YAT-YGWC-50**	EPA 300.0 Rev 2.1 1993	861029		
92736140002	**YAT-AMA-R6-FB-1**	EPA 300.0 Rev 2.1 1993	861029		
92736140003	**YAT-AMA-R6-EB-1**	EPA 300.0 Rev 2.1 1993	861029		
92736140004	**YAT-AMA-R6-FD-1**	EPA 300.0 Rev 2.1 1993	861029		
92736140005	**YAT-PZ-54D**	EPA 300.0 Rev 2.1 1993	861029		

Pace	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Southern Company

Project #: WO# : 92736140

92736140

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: 6/12/24 JD

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer:
☑ IR Gun ID: 230 Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 1.4 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 1.4

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

WO#: 92736140

PM: BV Due Date: 06/26/24

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

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)	SPIN	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1			1																			X				
2		1	1			1																			X				
3		1	1			1																			X				
4		1	1			1																			X				
5		1	1			2																			X				
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave., Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for Instructions

92736140

Company Name:	Southern Company	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-OTH-20240610	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', R6		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____
Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [ ] No
Analysis:

Specify Container Size **: 3 3 2 1 3
Identify Container Preservative Type***: 2 1 1 2 2
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Bonnie Vang
Acct/Num / Client ID:
Tabs #:
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	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/9320	APP III/IV Metals (Field Filtered)	Sample Comment
YAT-YGWC-50	WG	G	6/10/24	1405	--	--		5		X	X	X	X		See Remarks 001
YAT-AMA-R6-FB-1	WG	G	6/10/24	1400	--	--		5		X	X	X	X		See Remarks 002
YAT-AMA-R6-EB-1	WG	G	6/10/24	1500	--	--		5		X	X	X	X		See Remarks 003
YAT-AMA-R6-FD-1	WG	G	6/10/24	—	--	--		5		X	X	X	X		See Remarks 004
YAT-PZ-54D	WG	G	6/12/24	0818	--	--		5		X	X	X	X	X	See Remarks 005

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg

Collected By:
Printed Name: (Arcadis) - Jessica Warn
Signature: (Arcadis) - Jessica Warn

Additional Instructions from Pace®:
YAT-PZ-54D only contains 1 Ra liter container, Field Filtered metals bottle additional

# 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 Dow / Arcadis	6/12/24 0939	Ryan Williams / Pace	6/12/24 0939
Ryan Williams / Pace	6/12/24 1235		6/12/24 1235
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other

Page: of

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

July 09, 2024

Lauren Hartley
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92736155

Dear Lauren Hartley:

Enclosed are the analytical results for sample(s) received by the laboratory on June 12, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

Revision 1: QC Sheets added to report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Geoffrey Gay, Arcadis-ATL
Laura Midkiff, Southern Company
Alex Simpson, Arcadis
Trey Singleton, Southern Company
Becky Steever, Arcadis
Jessica Ware, Arcadis
Albert Zumbuhl, Arcadis

Pace Analytical Services, LLC
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(704)875-9092

CERTIFICATIONS

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92736155

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

Pace Analytical Services, LLC
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(704)875-9092

SAMPLE SUMMARY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92736155

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92736155001	**YAT-YGWC-50**	Water	06/10/24 14:05	06/12/24 09:39
92736155002	**YAT-AMA-R6-FB-1**	Water	06/10/24 14:00	06/12/24 09:39
92736155003	**YAT-AMA-R6-EB-1**	Water	06/10/24 15:00	06/12/24 09:39
92736155004	**YAT-AMA-R6-FD-1**	Water	06/10/24 00:00	06/12/24 09:39
92736155005	**YAT-PZ-54D**	Water	06/12/24 08:18	06/12/24 09:39

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(704)875-9092

SAMPLE ANALYTE COUNT

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92736155

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92736155001	**YAT-YGWC-50**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92736155002	**YAT-AMA-R6-FB-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92736155003	**YAT-AMA-R6-EB-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92736155004	**YAT-AMA-R6-FD-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92736155005	**YAT-PZ-54D**	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

Pace Analytical Services, LLC
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(704)875-9092

SUMMARY OF DETECTION

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92736155

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92736155001	**YAT-YGWC-50**					
EPA 9315	Radium-226	0.228U ± 0.153 (0.260) C:89% T:NA	pCi/L		07/04/24 09:01	
EPA 9320	Radium-228	0.600U ± 0.395 (0.752) C:82% T:81%	pCi/L		07/01/24 12:19	
Total Radium Calculation	Total Radium	0.828U ± 0.548 (1.01)	pCi/L		07/05/24 11:59	
92736155002	**YAT-AMA-R6-FB-1**					
EPA 9315	Radium-226	-0.0548U ± 0.0697 (0.241) C:95% T:NA	pCi/L		07/04/24 09:01	
EPA 9320	Radium-228	0.525U ± 0.382 (0.744) C:81% T:81%	pCi/L		07/01/24 12:20	
Total Radium Calculation	Total Radium	0.525U ± 0.452 (0.985)	pCi/L		07/05/24 11:59	
92736155003	**YAT-AMA-R6-EB-1**					
EPA 9315	Radium-226	0.0707U ± 0.107 (0.235) C:98% T:NA	pCi/L		07/04/24 09:01	
EPA 9320	Radium-228	0.124U ± 0.325 (0.725) C:84% T:82%	pCi/L		07/01/24 12:20	
Total Radium Calculation	Total Radium	0.195U ± 0.432 (0.960)	pCi/L		07/05/24 11:59	
92736155004	**YAT-AMA-R6-FD-1**					
EPA 9315	Radium-226	-0.0284U ± 0.127 (0.343) C:93% T:NA	pCi/L		07/04/24 09:01	
EPA 9320	Radium-228	0.375U ± 0.370 (0.765) C:81% T:86%	pCi/L		07/01/24 12:20	
Total Radium Calculation	Total Radium	0.375U ± 0.497 (1.11)	pCi/L		07/05/24 11:59	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92736155

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92736155005	**YAT-PZ-54D**					
EPA 9315	Radium-226	2.65 ± 0.672 (0.462) C:94% T:NA	pCi/L		07/04/24 09:21	
EPA 9320	Radium-228	2.23 ± 0.736 (0.994) C:76% T:81%	pCi/L		07/01/24 12:20	
Total Radium Calculation	Total Radium	4.88 ± 1.41 (1.46)	pCi/L		07/05/24 11:59	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92736155

Sample: YAT-YGWC-50 **Lab ID: 92736155001** Collected: 06/10/24 14:05 Received: 06/12/24 09:39 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	**0.228U ± 0.153 (0.260) C:89% T:NA**	pCi/L	07/04/24 09:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.600U ± 0.395 (0.752) C:82% T:81%**	pCi/L	07/01/24 12:19	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.828U ± 0.548 (1.01)**	pCi/L	07/05/24 11:59	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92736155

Sample: YAT-AMA-R6-FB-1 **Lab ID: 92736155002** Collected: 06/10/24 14:00 Received: 06/12/24 09:39 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	**-0.0548U ± 0.0697 (0.241) C:95% T:NA**	pCi/L	07/04/24 09:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.525U ± 0.382 (0.744) C:81% T:81%**	pCi/L	07/01/24 12:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.525U ± 0.452 (0.985)**	pCi/L	07/05/24 11:59	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92736155

Sample: YAT-AMA-R6-EB-1 **Lab ID: 92736155003** Collected: 06/10/24 15:00 Received: 06/12/24 09:39 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	**0.0707U ± 0.107 (0.235) C:98% T:NA**	pCi/L	07/04/24 09:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.124U ± 0.325 (0.725) C:84% T:82%**	pCi/L	07/01/24 12:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.195U ± 0.432 (0.960)**	pCi/L	07/05/24 11:59	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92736155

Sample: YAT-AMA-R6-FD-1 **Lab ID: 92736155004** Collected: 06/10/24 00:00 Received: 06/12/24 09:39 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	**-0.0284U ± 0.127 (0.343) C:93% T:NA**	pCi/L	07/04/24 09:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.375U ± 0.370 (0.765) C:81% T:86%**	pCi/L	07/01/24 12:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.375U ± 0.497 (1.11)**	pCi/L	07/05/24 11:59	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92736155

Sample: YAT-PZ-54D **Lab ID: 92736155005** Collected: 06/12/24 08:18 Received: 06/12/24 09:39 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	**2.65 ± 0.672 (0.462) C:94% T:NA**	pCi/L	07/04/24 09:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**2.23 ± 0.736 (0.994) C:76% T:81%**	pCi/L	07/01/24 12:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**4.88 ± 1.41 (1.46)**	pCi/L	07/05/24 11:59	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92736155

QC Batch: 676813
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92736155001, 92736155002, 92736155003, 92736155004, 92736155005

METHOD BLANK: 3295938 Matrix: Water
Associated Lab Samples: 92736155001, 92736155002, 92736155003, 92736155004, 92736155005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0288 ± 0.282 (0.656) C:84% T:79%	pCi/L	07/01/24 12:21	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92736155

QC Batch: 676583
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92736155001, 92736155002, 92736155003, 92736155004, 92736155005

METHOD BLANK: 3294426
Matrix: Water
Associated Lab Samples: 92736155001, 92736155002, 92736155003, 92736155004, 92736155005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.129 ± 0.118 (0.222) C:97% T:NA	pCi/L	07/04/24 09:00	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92736155

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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92736155

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92736155001	**YAT-YGWC-50**	EPA 9315	676583		
92736155002	**YAT-AMA-R6-FB-1**	EPA 9315	676583		
92736155003	**YAT-AMA-R6-EB-1**	EPA 9315	676583		
92736155004	**YAT-AMA-R6-FD-1**	EPA 9315	676583		
92736155005	**YAT-PZ-54D**	EPA 9315	676583		
92736155001	**YAT-YGWC-50**	EPA 9320	676813		
92736155002	**YAT-AMA-R6-FB-1**	EPA 9320	676813		
92736155003	**YAT-AMA-R6-EB-1**	EPA 9320	676813		
92736155004	**YAT-AMA-R6-FD-1**	EPA 9320	676813		
92736155005	**YAT-PZ-54D**	EPA 9320	676813		
92736155001	**YAT-YGWC-50**	Total Radium Calculation	680442		
92736155002	**YAT-AMA-R6-FB-1**	Total Radium Calculation	680442		
92736155003	**YAT-AMA-R6-EB-1**	Total Radium Calculation	680442		
92736155004	**YAT-AMA-R6-FD-1**	Total Radium Calculation	680442		
92736155005	**YAT-PZ-54D**	Total Radium Calculation	680442		

Pace	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑

Sample Condition Upon Receipt

Client Name: Southern Company

Project #

WO# : 92736155

92736155

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: 6/12/24 SM

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer:
☑ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 1.4 Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 1.4

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	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____

WO#: 92736155

PM: BV Due Date: 07/03/24

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

Project #

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1			1																			X				
2		1	1			1																			X				
3		1	1			1																			X				
4		1	1			1																			X				
5		1	1			2	X																		X				
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: 92736155

Scan QR Code for Instructions

Company Name:	Southern Company	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-OTH-20240610	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', R6		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 2

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	APP III/IV Metals (Field Filtered)	Sample Comment	Preservation non-conformance identified for sample.
YAT-YGWC-50	WG	G	6/10/24	1405	--	--		5		X	X	X	X		See Remarks 001	
YAT-AMA-R6-FB-1	WG	G	6/10/24	1400	--	--		5		X	X	X	X		See Remarks 002	
YAT-AMA-R6-EB-1	WG	G	6/10/24	1500	--	--		5		X	X	X	X		See Remarks 003	
YAT-AMA-R6-FD-1	WG	G	6/10/24	—	--	--		5		X	X	X	X		See Remarks 004	
YAT-PZ-54D	WG	G	6/12/24	0818	--	--		5		X	X	X	X	X	See Remarks 005	

Lab Use Only: Prof. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg

Collected By:
Printed Name: (Arcadis) - Jessica Warn
Signature: (Arcadis) - Jessica Warn

Additional Instructions from Pace®:
YAT-PZ-54D only contains 1 Ra liter, contains Field Filtered metals bottle additional
Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Jessica Warn / Arcadis	6/12/24 0939	Ryan Williams / Pace	6/12/24 0939	
Ryan Williams / Pace	6/12/24 1235		6/12/24 1235	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	JJS1
Date:	6/24/2024
Worklist:	79850
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3295938
MB concentration:	0.029
M/B 2 Sigma CSU:	0.282
MB MDC:	0.656
MB Numerical Performance Indicator:	0.20
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS79850	LCSD79850
Count Date:	7/1/2024	7/1/2024
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	36.180	36.180
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.820	0.819
Target Conc. (pCi/L, g, F):	4.413	4.420
Uncertainty (Calculated):	0.216	0.217
Result (pCi/L, g, F):	3.639	3.241
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.873	0.829
Numerical Performance Indicator:	-1.69	-2.70
Percent Recovery:	82.46%	73.33%
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.:	LCS79850	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD79850	
Sample Result (pCi/L, g, F):	3.639	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.873	
Sample Duplicate Result (pCi/L, g, F):	3.241	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.829	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.648	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	11.72%	
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:

VAL
7/2/24

7/2/24

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	6/28/2024
Worklist:	79837
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3294426
MB concentration:	0.129
M/B 2 Sigma CSU:	0.118
MB MDC:	0.222
MB Numerical Performance Indicator:	2.13
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS79837	LCSD79837
Count Date:	7/3/2024	7/3/2024
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.022	25.022
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.504	0.507
Target Conc. (pCi/L, g, F):	4.962	4.931
Uncertainty (Calculated):	0.233	0.232
Result (pCi/L, g, F):	4.613	4.594
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.850	0.847
Numerical Performance Indicator:	-0.78	-0.75
Percent Recovery:	92.97%	93.18%
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.:	LCS79837	92736785015
Duplicate Sample I.D.	LCSD79837	92736785015DUP
Sample Result (pCi/L, g, F):	4.613	0.206
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.850	0.165
Sample Duplicate Result (pCi/L, g, F):	4.594	0.151
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.847	0.135
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	0.030	0.508
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	0.23%	30.90%
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:

7-5-24

LAM 7/4/24

August 2024

Georgia Power Co. – Plant Yates

Data Review Report

Metals, General Chemistry, and Radium Analyses

SDGs #92749173 and 92749185

Analyses Performed By:
Pace Analytical Services – Asheville, North Carolina
Pace Analytical Services – Peachtree Corners, Georgia
Pace Analytical Services – Greensburg, Pennsylvania

Report #55996R
Review Level: Tier II
Project: 30143626.3C

Summary

This Data Review Report summarizes the review of Sample Delivery Groups (SDGs) #92749173 and 92749185 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-YAMW-2	92749173001 92749185001	Water	8/21/2024		X	X	X
YAT-PZ-55	92749173002 92749185002	Water	8/21/2024		X	X	X
YAT-YGWC-23S	92749173003 92749185003	Water	8/21/2024		X	X	X
YAT-PZ-37	92749173004 92749185004	Water	8/21/2024		X	X	X
YAT-PZ-37D	92749173005 92749185005	Water	8/21/2024		X	X	X
YAT-PZ-52D	92749173006 92749185006	Water	8/21/2024		X	X	X
YAT-AMA-R6-EB-1	92749173007 92749185007	Water	8/21/2024		X	X	X
YAT-YAMW-3	92749173008 92749185008	Water	8/22/2024		X	X	X
YAT-YAMW-4	92749173009 92749185009	Water	8/23/2024		X	X	X
YAT-PZ-51	92749173010 92749185010	Water	8/22/2024		X	X	X
YAT-YAMW-5	92749173011 92749185011	Water	8/23/2024		X	X	X
YAT-PZ-35	92749173012 92749185012	Water	8/22/2024		X	X	X

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					RAD	MET	GEN CHEM
YAT-YGWC-50	92749173013 92749185013	Water	8/23/2024		X	X	X
YAT-YAMW-1	92749173014 92749185014	Water	8/22/2024		X	X	X
YAT-AMA-R6-FD-1	92749173015 92749185015	Water	8/22/2024	YAT-YAMW-1	X	X	X
YAT-YGWC-36A	92749173016 92749185016	Water	8/22/2024		X	X	X
YAT-YGWC-24SB	92749173017 92749185017	Water	8/22/2024		X	X	X
YAT-YGWC-49	92749173018 92749185018	Water	8/22/2024		X	X	X
YAT-YGWC-38	92749173019 92749185019	Water	8/23/2024		X	X	X
YAT-YGWC-41	92749173020 92749185020	Water	8/23/2024		X	X	X
YAT-YGWC-42	92749173021 92749185021	Water	8/22/2024		X	X	X
YAT-YGWC-43	92749173022 92749185022	Water	8/22/2024		X	X	X
YAT-AMA-R6-FB-1	92749173023 92749185023	Water	8/22/2024		X	X	X
YAT-AMA-R6-FD-2	92749173024 92749185024	Water	8/22/2024	YAT-YGWC-38	X	X	X

Notes:

1. Metals and total dissolved solids (TDS) analysis performed by Pace Analytical Services – Peachtree Corners, Georgia.
2. Anions (chloride, fluoride, and sulfate) analysis performed by Pace Analytical Services – Asheville, North Carolina.
3. 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 6010D, 6020B, 7470A, 9315, and 9320; Standard Method (SM) SM2540C; and USEPA Method 300.0. Data were reviewed in accordance with USEPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma–Atomic Emission Spectroscopy and Inductively Coupled Plasma–Mass Spectroscopy (September 2011, Rev. 2), USEPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Mercury Data by Cold Vapor Atomic Absorption (September 2011, Rev. 2), and the USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA 542-R-20-006, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, OSWER 9240.1-45, October 2004, as appropriate).

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and that it was already subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with the USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
  - U The analyte was analyzed for but not detected. The associated value is the analyte instrument detection limit.
  - J The reported value was obtained from a reading less than the reporting limit (RL), but greater than or equal to the method detection limit (MDL).
- Quantitation (Q) Qualifiers
  - E The reported value is estimated due to the presence of interference.
  - N Spiked sample recovery is not within control limits.
  - * Duplicate analysis is not within control limits.
- Validation Qualifiers
  - J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
  - UJ The analyte was not detected above the reporting limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
  - UB Analyte considered non-detect at the listed value due to associated blank contamination.
  - R The sample results are rejected.

Two facts should be noted by all data users. First, the “R” flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. “R” values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Metals Analyses

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 6010D/6020B	Water	180 days from collection to analysis	Cool to <6°C; preserved to a pH of less than 2 s.u.
SW-846 7470A	Water	28 days from collection to analysis	Cool to <6°C; preserved to a pH of less than 2 s.u.

Note:
s.u. = standard units

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

All compounds associated with the QA blanks exhibited a concentration less than the MDL, with the exception of the compounds listed in the following table. Sample results associated with QA blank contamination that were greater than the BAL resulted in the removal of the laboratory qualifier (B) of data. Sample results less than the BAL associated with the following sample locations were qualified as listed in the following table.

Sample Locations	Analytes	Sample Result	Qualification
YAT-PZ-52D	Arsenic (EB)	Detected sample results >RL and <BAL	"UB" at detected sample result
YAT-PZ-35 YAT-YGWC-36A	Boron (EB, FB)		

Sample Locations	Analytes	Sample Result	Qualification
YAT-PZ-37 YAT-PZ-37D YAT-YAMW-3 YAT-YAMW-4 YAT-PZ-51 YAT-YAMW-5 YAT-PZ-35 YAT-YGWC-50 YAT-YAMW-1 YAT-AMA-R6-FD-1 YAT-YGWC-42 YAT-YGWC-43 YAT-AMA-R6-FD-2	Arsenic (EB, MB)	Detected sample results <RL and <BAL	"UB" at RL
YAT-YAMW-2 YAT-YGWC-49	Boron (EB, FB, MB)		

Notes:
EB = Equipment blank
FB = Field blank
MB = Method blank
RL = Reporting limit

3. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

3.1 MS/MSD Analysis

All metal analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS recovery control limits do not apply for MS performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS concentration by a factor of four or greater.

The MS/MSD analysis was performed using samples YAT-PZ-37 and YAT-YAMW-4 in association with SW-846 6010D. The concentrations of calcium in the unspiked samples were greater than four-times the spike concentration, hence, the SW-846 6010D MS/MSD sample results were not evaluated.

The MS/MSD analysis performed using samples YAT-PZ-37 and YAT-YAMW-3 in association with SW-846 6020B analysis exhibited recoveries within the control limits. The concentrations of boron in the unspiked samples were greater than four-times the spike concentration, hence, the MS/MSD sample results were not evaluated.

The MS/MSD analysis performed using sample YAT-PZ-52D in association with SW-846 7470A analysis exhibited recoveries within the control limits.

3.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the RL. A control limit of 20% for water matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of one times the RL is applied for water matrices.

MS/MSD analysis was performed in replacement of the laboratory duplicate analysis. The MS/MSD recoveries exhibited acceptable RPDs.

4. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 35% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YAT-YAMW-1 / YAT-AMA-R6-FD-1	Calcium	52.9	45.9	14.2%
	Barium	0.086	0.080	7.2%
	Boron	2.3	1.8	24.4%
	Antimony	0.0030 U	0.00058 J	AC
	Beryllium	0.000095 J	0.00010 J	
	Cadmium	0.00018 J	0.00023 J	
	Cobalt	0.0018 J	0.0086	
	Lithium	0.016 J	0.020 J	
	Selenium	0.0079	0.0064	
	Mercury	0.00014 J	0.00014 J	
YAT-YGWC-38 / YAT-AMA-R6-FD-2	Calcium	43.8	44.2	0.9%
	Boron	3.3	3.3	0.0%
	Selenium	0.045	0.046	2.2%
	Barium	0.016	0.016	AC
	Beryllium	0.0015	0.0016	

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
	Cadmium	0.00063	0.00065	
	Lithium	0.0052 J	0.0053 J	

Note:
AC = Acceptable

The differences in the results between the parent sample YAT-YAMW-1 and field duplicate sample YAT-AMA-R6-FD-1 were acceptable.

The differences in the results between the parent sample YAT-YGWC-38 and field duplicate sample YAT-AMA-R6-FD-2 were acceptable.

5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analysis exhibited recoveries within the control limits.

6. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for Metals

METALS: SW-846 6010D/6020B/7470A	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP-AES) Inductively Coupled Plasma-Mass Spectrometry (ICP-MS) Atomic Absorption – Manual Cold Vapor (CV)					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method Blanks		X	X		
B. Equipment/Field Blanks		X	X		
Laboratory Control Sample (LCS) %R		X		X	
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Laboratory Duplicate (RPD)	X				X
Field Duplicate (RPD)		X		X	

Notes:

%R Percent recovery

RPD Relative percent difference

General Chemistry Analyses

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
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.

All compounds associated with the QA blanks exhibited a concentration less than the MDL, with the exception of the compounds listed in the following table. Sample results less than the BAL associated with the following sample locations were qualified as listed in the following table.

Sample Locations	Analytes	Sample Result	Qualification
YAT-PZ-55 YAT-YGWC-41	TDS (FB)	Detected sample results >RL and <BAL	"J+" at detected sample concentration

Notes:
FB Field blank
RL Reporting limit

3. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

3.1 MS/MSD Analysis

All analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits and the laboratory flag will be removed.

The MS/MSD analysis performed using samples YAT-YGWC-50 and YAT-AMA-R6-FB-1 in association with anions analysis exhibited recoveries within the control limits. The concentration of sulfate in the unspiked analysis of sample YAT-YGWC-50 was greater than four-times the spike concentration, hence, the MS/MSD sample results were not evaluated.

3.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the RL. A control limit of 20% for water matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of one times the RL is applied for water matrices.

The laboratory duplicate analysis performed on samples YAT-YAMW-3, YAT-YAMW-4, and YAT-AMA-R6-FB-1 in association with TDS analysis exhibited acceptable differences between the results.

MS/MSD analysis was performed in replacement of the laboratory duplicate analysis in association with anions analysis. The MS/MSD recoveries exhibited acceptable RPDs.

4. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 35% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YAT-YAMW-1 / YAT-AMA-R6-FD-1	TDS	548	492	10.8%
	Chloride	5.7	5.6	1.8%
	Sulfate	279	242	14.2%
YAT-YGWC-38 / YAT-AMA-R6-FD-2	TDS	418	381	9.3%
	Chloride	4.0	3.9	AC

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
	Sulfate	186	186	0.0%

Note:
AC = Acceptable

The differences in the results between the parent sample YAT-YAMW-1 and field duplicate sample YAT-AMA-R6-FD-1 were acceptable.

The differences in the results between the parent sample YAT-YGWC-38 and field duplicate sample YAT-AMA-R6-FD-2 were acceptable.

5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analysis exhibited recoveries within the control limits.

6. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for General Chemistry

General Chemistry: SM2320B, SM2540C, USEPA 300.0	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method Blanks		X		X	
B. Equipment/Field Blanks		X	X		
Laboratory Control Sample (LCS) %R		X		X	
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Laboratory Duplicate (RPD)		X		X	
Field Duplicate (RPD)		X		X	

Notes:

%R Percent recovery

RPD Relative percent difference

Radiological Analyses

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
Radium-226 by SW-846 9315	Water	180 days from collection to analysis	Preserved to a pH of less than 2 s.u.
Radium-228 by SW-846 9320	Water	180 days from collection to analysis	Preserved to a pH of less than 2 s.u.

Note:
s.u. = standard units

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and field/rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Field/rinse blanks measure contamination of samples during field operations.

Blank results should be verified to be accurately reported and that tolerance limits (±2 sigma or standard deviation) were not exceeded; and blank results verified to be less than the minimum detectable concentration (MDC).

For blanks to be considered not applicable, verify net blank results are less than the associated uncertainty by evaluating the blank results based on the following three criteria. If either of these criteria is true, the blank is considered not suspect of contamination (or non-detect).

1. Is the blank result less than the uncertainty and less than the MDC?
2. Does the blank have an uncertainty greater than the result (or indistinguishable from background) or does the blank result fall between its uncertainty and its MDC?

If the blank QC results fall outside the appropriate tolerance limits or if the net blank results are not less than the associated uncertainty, the following equation for normalized absolute difference (NAD) should be used in determining the effect of possible blank contamination on the sample results:

$$Normalized\ \ absolute\ difference_{\ MethodBlank} = \frac{|\ Sample\ -\ Blank\ |}{\sqrt{(U_{Sample}\ )^2 + (U_{Blank}\ )^2}}$$

Where:

U_{Sample} = uncertainty of the sample

U_{Blank} = uncertainty of the blank

Sample = concentration of isotope in sample

Blank = concentration of isotope in blank

Normalized Absolute Difference	Qualification
> 2.58	None
1.96 > x < 2.58	J
x < 1.96	J*

Note:
* = Minimally the result should be qualified as estimated, J; however, if other quality indicators are deficient the validator may determine the result should be qualified as rejected, R

Radium-226 and Radium-228 were detected in the method blanks, equipment blanks, and field blanks, however, the activity was measured as less than the uncertainty and MDC. Hence, the blank results are considered non-detect and no qualification of the results was required.

3. Matrix Spike (MS)/Laboratory Duplicate Analysis

MS and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

3.1 MS Analysis

MS samples are not typically analyzed for gamma spectral content due to the inability of the laboratory to homogenize spike material with the sample.

If performed, the spike analysis must exhibit a percent recovery within the control limits of 70% to 130%. The MS recovery control limits do not apply for MS performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits.

In the event the recovery is outside of this limit, a numerical indicator to make assessments is calculated, with a limit of < ±3 sigma for either.

The numerical performance indicator for a matrix spike sample is calculated by:

$$Z_{MS} = \frac{x - x_0 - c}{\sqrt{u^2(x) + u^2(x_0) + u^2(c)}}$$

Where:

x = measured concentration of the spiked sample.

x_0 = measured concentration of the unspiked sample.

c = spike concentration added.

$u^2(x)$, $u^2(x0)$, $u^2(c)$ = the squares of the respective standard uncertainties of these values.

MS performance for all matrices is acceptable when the numerical performance indicator calculation yields a value between ±3 sigma. Warning limits have been established as ±2 sigma.

MS analysis was not performed using a sample from this SDG.

3.2 Laboratory Duplicate Analysis

Duplicate analyses are indicators of laboratory precision based on each sample matrix. For replicate analysis results to be considered in agreement the duplicate error ratio (DER) must be less than 2.13. In the event the DER is outside of the limit of 2.13, a numerical indicator to make assessments is calculated, with a limit of ±3 sigma or standard deviation.

The numerical performance indicator for laboratory duplicates is calculated by:

$$Z_{Dup} = \frac{x_1 - x_2}{\sqrt{u^2(x_1) + u^2(x_2)}}$$

Where:

x_1, x_2 = two measured activity concentrations.

$u^2(x_1)$, $u^2(x_2)$ = the combined standard uncertainty of each measurement squared.

Duplicate sample performance is acceptable when the numerical performance indicator calculation yields a value between ±3 sigma. Warning limits have been established as ±2 sigma.

The laboratory duplicate analysis performed on sample location YAT-PZ-52D in association with SW-846 9315 analysis exhibited acceptable difference between the results. Laboratory duplicate analysis was not performed on a sample from this SDG in association with SW-846 9320 analysis.

4. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. There are no specific review criteria for radiological field replicate analyses comparability. The degree of agreement between these replicates is to be used in conjunction with all of the remaining quality control results as an aid in the decision as to the overall quality of the data. Data are not to be qualified due to field replicates alone. To determine the level of agreement between the replicates, the following guidelines have been established:

Data should be considered in agreement if results are within a factor of four of each other. Data between a factor of four and five of each other should be considered as a minor discrepancy and data greater than a factor of five should be considered a major discrepancy.

The field duplicate sample results are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YAT-YAMW-1 / YAT-AMA-R6-FD-1	Radium-226	0.235 ± 0.143	0.229 U ± 0.134	AC
	Radium-228	0.151 U ± 0.406	0.819 ± 0.436	
	Total Radium	0.386 U ± 0.549	1.05 U ± 0.570	
YAT-YGWC-38 / YAT-AMA-R6-FD-2	Radium-226	0.0931 U ± 0.103	0.0955 U ± 0.135	AC

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
	Radium-228	0.127 U ± 0.296	0.506 U ± 0.403	
	Total Radium	0.220 U ± 0.399	0.602 U ± 0.538	

Note:
AC = Acceptable

The differences in the results between the parent sample YAT-YAMW-1 and field duplicate sample YAT-AMA-R6-FD-1 were acceptable.

The results were below the MDC in the parent sample YAT-YGWC-38 and field duplicate sample YAT-AMA-R6-FD-2.

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: September 30, 2024

PEER REVIEW: Dennis Capria

DATE: October 2, 2024

Chain of Custody / Data Qualifier Summary Table

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

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Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	tosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', R6		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment	Preservation non-conformance identified for sample.
YAT-YAMW-2	WG	G	8/21/24	1655	—	—		5		X	X	X	X	See Remarks	
YAT-YAMW-3	WG	G						5		X	X	X	X	See Remarks	
YAT-YAMW-4	WG	G						5		X	X	X	X	See Remarks	
YAT-YAMW-5	WG	G						5		X	X	X	X	See Remarks	
YAT-PZ-37	WG	G						5		X	X	X	X	See Remarks	
YAT-PZ-35	WG	G						5		X	X	X	X	See Remarks	
YAT-PZ-37D	WG	G						5		X	X	X	X	See Remarks	
YAT-PZ-51	WG	G						5		X	X	X	X	See Remarks	
YAT-PZ-52D	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWC-50	WG	G						5		X	X	X	X	See Remarks	

Specify Container Size **: 3 3 2 1

**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

*** 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

Lab Use Only:
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg.

Collected By:
Printed Name: (Arcadis) - David Prouty
Signature: (Arcadis)

Additional Instructions from Pace®:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Arcadis	8/22/24 0925	Ryan Williams/Pace	8/22/24 0925	
Ryan Williams/Pace	8/22/24 1215	Chuck Hunter	8/22/24 1215	Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

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		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2024S2	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', R6		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [M] No

Analysis:

Specify Container Size **: 3 3 2 1

Identify Container Preservative Type***: 2 1 1 2

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment	Preservation non-conformance identified for sample
YAT-AMA-R6-EB-1	WG	G						5		X	X	X	X	See Remarks	
YAT-AMA-R6-FB-1	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWC-24SB	WG	G						5		X	X	X	X	See Remarks	
~~PZ-55~~ YAT-PZ-55	WG	G	8/21/24	1603	—	—		5		X	X	X	X	See Remarks	
PZ-54D	WG	G						5		X	X	X	X	See Remarks	
YAT-AMA-R6-FD-2	WG	G						5		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

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	8/22/24 0800	Kevin Pruett Arcadis	8/22/24 0800
Kevin Pruett	8/22/24 0925	Ryan William / Pace	8/22/24 0925
Ryan William / Pace	8/22/24 1215		8/22/24 1215
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

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		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP 3, A, B/B', R6		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

Specify Container Size **: 3 3 2 1

Identify Container Preservative Type***: 2 1 1 2

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

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* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment	Preservation non-conformance identified for sample
YAT-YGWC-23S	WG	G	8/21/24	1740	—	—		5		X	X	X	X	See Remarks	
YAT-YAMW-1	WG	G						5		X	X	X	X	See Remarks	
YAT-AMA-R6-FD-1	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWC-36A	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWC-49	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWC-38	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWC-24SB	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWC-41	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWC-42	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWC-43	WG	G						5		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.

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:
Arcadis	8/22/24 0730	Arcadis	8/22/24 0730
Pace	8/22/24 0925	Pace	8/22/24 0925
Pace	8/22/24 1215		8/22/24 1215

Tracking Number:

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		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT AP-3, A, B/B', RE	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
Identify Container Preservative Type***: 2 1 1 2
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment	Preservation non-conformance identified for sample
YAT-YAMW-2	WG	G						5		X	X	X	X	See Remarks	
YAT-YAMW-3	WG	G						5		X	X	X	X	See Remarks	
YAT-YAMW-4	WG	G						5		X	X	X	X	See Remarks	
YAT-YAMW-5	WG	G						5		X	X	X	X	See Remarks	
YAT PZ-37	WG	G	8/21/24	1210	—	—		5		X	X	X	X	See Remarks	
YAT-PZ-35	WG	G						5		X	X	X	X	See Remarks	
YAT-PZ-37D	WG	G	8/21/24	1535	—	—		5		X	X	X	X	See Remarks	
YAT-PZ-51	WG	G						5		X	X	X	X	See Remarks	
YAT-PZ-52D	WG	G	8/21/24	1015	—	—		5		X	X	X	X	See Remarks	
YAT-YGWC-50	WG	G						5		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

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:	Tracking Number:
Perry Studebaker / Arcadis	8/22/24 0730	[illegible] Arcadis	8/22/24 0730	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In-Person [ ] Courier
Ryan Williams / Pace	8/22/24 0925	Ryan Williams / Pace	8/22/24 0925	[ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of
Ryan Williams / Pace	8/22/24 1215	[illegible]	8/22/24 1215	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	

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		Cc E-Mail:	Arcadis contacts
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Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT AP-3, A, B/B', R6	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected:	[ ] AK [ ] PT [ ] MT [ ] CT [x] ET	County / State origin of sample(s):	Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

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

Identify Container Preservative Type***: 2 1 1 2

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment	Preservation non-conformance identified for sample:
YAT-AMA-R6-EB-1	WG	G	8/21/24	1840	—	—		5		X	X	X	X	See Remarks	
YAT-AMA-R6-FB-1	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWC-24SB	WG	G						5		X	X	X	X	See Remarks	
PZ-55	WG	G						5		X	X	X	X	See Remarks	
PZ-54D	WG	G						5		X	X	X	X	See Remarks	
YAT-AMA-R6-FD-2	WG	G						5		X	X	X	X	See Remarks	

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl, 7040A. Hg.

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:	Tracking Number:
Perry Studebaker / Arcadis	8/22/24 0730	Yael Rivera Arcadis	8/22/24 0730	
Relinquished by/Company: (Signature)	8/22/24 0925	Tyler Williams / Pace	8/22/24 0925	Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	8/22/24 1215	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

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Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

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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-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, 4, 8/B', 8G		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
Identify Container Preservative Type***: 2 1 1 2
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment	Preservation non-conformance identified for sample
YAT-YAMW-2	WG	G						5		X	X	X	X	See Remarks	
YAT-YAMW-3	WG	G	8/22/24	0949	—	—		5		X	X	X	X	See Remarks	
YAT-YAMW-4	WG	G	8/23/24	0839	—	—		5		X	X	X	X	See Remarks	
YAT-YAMW-5	WG	G						5		X	X	X	X	See Remarks	
YAT-PZ-37	WG	G						5		X	X	X	X	See Remarks	
YAT-PZ-35	WG	G						5		X	X	X	X	See Remarks	
YAT-PZ-37D	WG	G						5		X	X	X	X	See Remarks	
YAT-PZ-51	WG	G	8/22/24	1606	—	—		5		X	X	X	X	See Remarks	
YAT-PZ-52D	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWC-50	WG	G						5		X	X	X	X	See Remarks	

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

Collected By:
Printed Name: (Arcadis) Jessica Ware
Signature: (Arcadis) Jessica Ware

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature) Jessica Ware / Arcadis	Date/Time: 8/23/24 1130	Received by/Company: (Signature) Amy Strunk / Arcadis	Date/Time: 8/23/24 1130	Tracking Number:
Relinquished by/Company: (Signature) Amy Strunk / Arcadis	Date/Time: 8/23/24 1350	Received by/Company: (Signature) Chandler Hanks 8/23/24	Date/Time: 1350	Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

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Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

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Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd. Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rasingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', B6		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
Identify Container Preservative Type***: 2 1 1 2
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) NCl, (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 identifier for sample

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OI), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix*	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/V Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment
YAT-YAMW-2	WG	G						5		X	X	X	X	See Remarks
YAT-YAMW-3	WG	G						5		X	X	X	X	See Remarks
YAT-YAMW-4	WG	G						5		X	X	X	X	See Remarks
YAT-YAMW-5	WG	G	8/23/24	0855	—	—		5		X	X	X	X	See Remarks
YAT-PZ-37	WG	G						5		X	X	X	X	See Remarks
YAT-PZ-35	WG	G	8/22/24	1240	—	—		5		X	X	X	X	See Remarks
YAT-PZ-37D	WG	G						5		X	X	X	X	See Remarks
YAT-PZ-51	WG	G						5		X	X	X	X	See Remarks
YAT-PZ-52D	WG	G						5		X	X	X	X	See Remarks
YAT-YGWC-50	WG	G						5		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

Collected By:
Printed Name: (Arcadis) David Brady
Signature: (Arcadis)

Additional Instructions from Pace®:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp (°C) Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time: 8/23/24 1000	Received by/Company: (Signature) Ryan Brown / Arcadis	Date/Time: 8/23/24 1050	Tracking Number:
Relinquished by/Company: (Signature) Ryan Brown / Arcadis	Date/Time: 8/23/24 1350	Received by/Company: (Signature)	Date/Time: 8/23/24 1350	Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

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Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

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Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/S, K5		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
Identify Container Preservative Type***: 2 1 1 2
Analysis Requested

** Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) Terracore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) Na2SO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment
YAT-YAMW-2	WG	G						5		X	X	X	X	See Remarks
YAT-YAMW-3	WG	G						5		X	X	X	X	See Remarks
YAT-YAMW-4	WG	G						5		X	X	X	X	See Remarks
YAT-YAMW-5	WG	G						5		X	X	X	X	See Remarks
YAT-PZ-37	WG	G						5		X	X	X	X	See Remarks
YAT-PZ-35	WG	G						5		X	X	X	X	See Remarks
YAT-PZ-37D	WG	G						5		X	X	X	X	See Remarks
YAT-PZ-51	WG	G						5		X	X	X	X	See Remarks
YAT PZ 52D	WG	G						5		X	X	X	X	See Remarks
YAT-YGWC-50	WG	G	8/23/24	0905	—	—		5		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

Collected By:
Printed Name: (Arcadis) KIM LAPSZYNSKI
Signature: (Arcadis)

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time: 8/23/24 1130	Received by/Company: (Signature)	Date/Time: 8/23/24 1130	Tracking Number:	
Relinquished by/Company: (Signature)	Date/Time: 8/23/24 1350	Received by/Company: (Signature)	Date/Time: 8/23/24 1350	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:		
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of	

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Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

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Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rasingle@southernco.com
		Cc E-Mail	Arcadis contacts
Customer Project #:	Task No. YAT-CCR ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, 6, 8/8', 16		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, NELAP, 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
Identify Container Preservative Type***: 2 1 1 2
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/9320	Sample Comment
YAT-YGWC-23S	WG	G						5		X	X	X	X	See Remarks
YAT-YAMW-1	WG	G	8/22/24	1015	—	—		5		X	X	X	X	See Remarks
YAT-AMA-R6-FD-1	WG	G	8/22/24	—	—	—		5		X	X	X	X	See Remarks
YAT-YGWC-36A	WG	G	8/22/24	1505	—	—		5		X	X	X	X	See Remarks
YAT-YGWC-49	WG	G						5		X	X	X	X	See Remarks
YAT-YGWC-38	WG	G						5		X	X	X	X	See Remarks
YAT-YGWC-24SB	WG	G	8/22/24	1240	—	—		5		X	X	X	X	See Remarks
YAT-YGWC-41	WG	G						5		X	X	X	X	See Remarks
YAT-YGWC-42	WG	G						5		X	X	X	X	See Remarks
YAT-YGWC-43	WG	G						5		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

Collected By:
Printed Name: (Arcadis) David Prouty
Signature: (Arcadis)

Additional Instructions from Pace®:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
David Prouty	8/23/24 1000	Ryan Bair / Arcadis	8/23/24 1050	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Ryan Bair / Arcadis	8/23/24 1350		8/23/24 1350	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

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Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

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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-ASSM1-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', R6		Purchase Order # (if applicable):	CPC82474-0002
		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

Identify Container Preservative Type***: 2 1 1 2

Analysis Requested: App III/IV Metals; Cl, F, SO4 (EPA 300.0); TDS (SM 2540C); RAD SW846 9315/8320

**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; Acct.Num / 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	Sample Comment	Preservation non-conformance identified for sample
YAT-YGWC-23S	WG	G						5		See Remarks	
YAT-YAMW-1	WG	G						5		See Remarks	
YAT-AMA-R6-FD-1	WG	G						5		See Remarks	
YAT-YGWC-36A	WG	G						5		See Remarks	
YAT-YGWC-49	WG	G	8/22/24	0935	—	—		5		See Remarks	
YAT-YGWC-38	WG	G	8/23/24	0855	—	—		5		See Remarks	
YAT-YGWC-24SB	WG	G						5		See Remarks	
YAT-YGWC-41	WG	G						5		See Remarks	
YAT-YGWC-42	WG	G						5		See Remarks	
YAT-YGWC-43	WG	G						5		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

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:	Tracking Number:
Perry Bonn / Arcadis	8/23/24 1350		8/23/24 1350	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In-Person [ ] Courier
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	[ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

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Pace® 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-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):		Purchase Order # (if applicable):	GPC62474-0002
		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

Identify Container Preservative Type***: 2 1 1 2

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

***Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Task #:; 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	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment	Preservation non-conformance identified for sample
YAT-YGWC-23S	WG	G						5		X	X	X	X	See Remarks	
YAT-YAMW-1	WG	G						5		X	X	X	X	See Remarks	
YAT-AMA-R6-FD-1	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWC-36A	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWC-49	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWC-38	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWC-24SB	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWC-41	WG	G	8/23/24	1000	—	—		5		X	X	X	X	See Remarks	
YAT-YGWC-42	WG	G	8/22/24	1123	—	—		5		X	X	X	X	See Remarks	
YAT-YGWC-43	WG	G	8/22/24	1406	—	—		5		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

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: 8/23/24 1130	Received by/Company: (Signature)	Date/Time: 8/23/24 1130	Tracking Number:
Relinquished by/Company: (Signature)	Date/Time: 8/23/24 1350	Received by/Company: (Signature)	Date/Time: 8/23/24 1350	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

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ENV-FRM-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:	tsingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/C, BG		Purchase Order # (if applicable):	GPCB2674-0002
		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

Identify Container Preservative Type***: 2 1 1 2

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	(RAD SW846 9315/9320	Sample Comment
YAT-AMA-R6-EB-1	WG	G						5		X	X	X	X	See Remarks
YAT-AMA-R6-FB-1	WG	G	8/22/24	1200	—	—		5		X	X	X	X	See Remarks
YAT-YGWC-24SB	WG	G						5		X	X	X	X	See Remarks
PZ-55	WG	G						5		X	X	X	X	See Remarks
PZ-54D	WG	G						5		X	X	X	X	See Remarks
YAT-AMA-R6-FD-2	WG	G						5		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

Collected By:
Printed Name: (Arcadis) Jessica Ware
Signature: (Arcadis) Jessica Ware

Additional Instructions from Pace®:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C): Corrected Temp. (°C)

Relinquished by/Company: (Signature) Jessica Ware / Arcadis	Date/Time: 8/23/24 1130	Received by/Company: (Signature) Arcadis	Date/Time: 8/23/24 1130	Tracking Number:	
Relinquished by/Company: (Signature) Jessica Ware / Arcadis	Date/Time: 8/23/24 1350	Received by/Company: (Signature)	Date/Time: 8/23/24 1350	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:		
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of	

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ENV-FRM-CORQ-0019_v01_082123

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT. Complete all relevant fields.

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205 346 3317
		E-Mail:	rasingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', B6		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

Data 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 (for Composite Start) Date	Collected (for Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/9320	Sample Comment
YAT-AMA-R6-EB-1	WG	G						5		X	X	X	X	See Remarks
YAT-AMA-R6-FB-1	WG	G						5		X	X	X	X	See Remarks
YAT-YGWC-24SB	WG	G						5		X	X	X	X	See Remarks
PZ-55	WG	G						5		X	X	X	X	See Remarks
PZ-54D	WG	G						5		X	X	X	X	See Remarks
YAT-AMA-R6-FD-2	WG	G	8/22/24	—	—	—		5		X	X	X	X	See Remarks

Specify Container Size **: 3 3 2 1

Identify Container Preservative Type***: 2 1 1 2

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only

Proj. Mgr: Bonnie Vang

Acct Num / Client ID:

Table #:

Profile / Template: 16561

Prelog / Bottle Ord. ID:

Preservation non-conformances identified for sample:

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg

Collected By:
Printed Name (Arcadis): 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) Perry Studebaker / Arcadis	Date/Time: 8/23/24 1350	Received by/Company: (Signature)	Date/Time: 8/23/24 1350	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: of

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ENV-FRM-CORO-0019_v01_082123

SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier	Reason for Validation Qualifier
92749173	YAT-YAMW-2	SW846 6020B	Boron	0.040	mg/L	UB	Blank contamination
	YAT-PZ-55	SM2540C	Total Dissolved Solids	292	mg/L	J+	Blank contamination
	YAT-PZ-37	SW846 6020B	Arsenic	0.0050	mg/L	UB	Blank contamination
	YAT-PZ-37D	SW846 6020B	Arsenic	0.0050	mg/L	UB	Blank contamination
	YAT-PZ-52D	SW846 6020B	Arsenic	0.0055	mg/L	UB	Blank contamination
	YAT-YAMW-3	SW846 6020B	Arsenic	0.0050	mg/L	UB	Blank contamination
	YAT-YAMW-4	SW846 6020B	Arsenic	0.0050	mg/L	UB	Blank contamination
	YAT-PZ-51	SW846 6020B	Arsenic	0.0050	mg/L	UB	Blank contamination
	YAT-YAMW-5	SW846 6020B	Arsenic	0.0050	mg/L	UB	Blank contamination
	YAT-PZ-35	SW846 6020B	Arsenic	0.0050	mg/L	UB	Blank contamination
			Boron	0.15	mg/L	UB	Blank contamination
	YAT-YGWC-50	SW846 6020B	Arsenic	0.0050	mg/L	UB	Blank contamination
	YAT-YAMW-1	SW846 6020B	Arsenic	0.0050	mg/L	UB	Blank contamination
	YAT-AMA-R6-FD-1	SW846 6020B	Arsenic	0.0050	mg/L	UB	Blank contamination
	YAT-YGWC-36A	SW846 6020B	Boron	0.16	mg/L	UB	Blank contamination
	YAT-YGWC-49	SW846 6020B	Boron	0.040	mg/L	UB	Blank contamination
	YAT-YGWC-41	SM2540C	Total Dissolved Solids	225	mg/L	J+	Blank contamination
	YAT-YGWC-42	SW846 6020B	Arsenic	0.0050	mg/L	UB	Blank contamination
	YAT-YGWC-43	SW846 6020B	Arsenic	0.0050	mg/L	UB	Blank contamination
	YAT-AMA-R6-FD-2	SW846 6020B	Arsenic	0.0050	mg/L	UB	Blank contamination
92749185	No qualifiers assigned						

Abbreviations:

mg/L = milligrams per liter

Qualifiers:

J+ = estimated result with possible high bias

UB = not detected due to blank contamination

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

September 09, 2024

Trey Singleton
Southern Company
241 Ralp McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92749173

Dear Trey Singleton:

Enclosed are the analytical results for sample(s) received by the laboratory between August 22, 2024 and August 23, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Peachtree Corners, GA

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
Becky Steever, Arcadis
Jessica Ware, Arcadis
Albert Zumbuhl, Arcadis

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92749173

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92749173

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92749173001	**YAT-YAMW-2**	Water	08/21/24 16:55	08/22/24 09:25
92749173002	**YAT-PZ-55**	Water	08/21/24 16:03	08/22/24 09:25
92749173003	**YAT-YGWC-23S**	Water	08/21/24 17:40	08/22/24 09:25
92749173004	**YAT-PZ-37**	Water	08/21/24 12:10	08/22/24 09:25
92749173005	**YAT-PZ-37D**	Water	08/21/24 15:35	08/22/24 09:25
92749173006	**YAT-PZ-52D**	Water	08/21/24 10:15	08/22/24 09:25
92749173007	**YAT-AMA-R6-EB-1**	Water	08/21/24 18:40	08/22/24 09:25
92749173008	**YAT-YAMW-3**	Water	08/22/24 09:49	08/23/24 13:50
92749173009	**YAT-YAMW-4**	Water	08/23/24 08:39	08/23/24 13:50
92749173010	**YAT-PZ-51**	Water	08/22/24 16:06	08/23/24 13:50
92749173011	**YAT-YAMW-5**	Water	08/23/24 08:55	08/23/24 13:50
92749173012	**YAT-PZ-35**	Water	08/22/24 12:40	08/23/24 13:50
92749173013	**YAT-YGWC-50**	Water	08/23/24 09:05	08/23/24 13:50
92749173014	**YAT-YAMW-1**	Water	08/22/24 10:15	08/23/24 13:50
92749173015	**YAT-AMA-R6-FD-1**	Water	08/22/24 00:00	08/23/24 13:50
92749173016	**YAT-YGWC-36A**	Water	08/22/24 15:05	08/23/24 13:50
92749173017	**YAT-YGWC-24SB**	Water	08/22/24 17:40	08/23/24 13:50
92749173018	**YAT-YGWC-49**	Water	08/22/24 09:35	08/23/24 13:50
92749173019	**YAT-YGWC-38**	Water	08/23/24 08:55	08/23/24 13:50
92749173020	**YAT-YGWC-41**	Water	08/23/24 10:00	08/23/24 13:50
92749173021	**YAT-YGWC-42**	Water	08/22/24 11:23	08/23/24 13:50
92749173022	**YAT-YGWC-43**	Water	08/22/24 14:06	08/23/24 13:50
92749173023	**YAT-AMA-R6-FB-1**	Water	08/22/24 12:00	08/23/24 13:50
92749173024	**YAT-AMA-R6-FD-2**	Water	08/22/24 00:00	08/23/24 13:50

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92749173

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92749173001	**YAT-YAMW-2**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92749173002	**YAT-PZ-55**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92749173003	**YAT-YGWC-23S**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92749173004	**YAT-PZ-37**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92749173005	**YAT-PZ-37D**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92749173006	**YAT-PZ-52D**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92749173007	**YAT-AMA-R6-EB-1**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92749173008	**YAT-YAMW-3**	EPA 6010D	DRB	1
		EPA 6020B	CW1, MT1	13

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92749173

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92749173009	**YAT-YAMW-4**	EPA 6010D	AJM	1
		EPA 6020B	CW1, MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92749173010	**YAT-PZ-51**	EPA 6010D	AJM	1
		EPA 6020B	CW1, MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92749173011	**YAT-YAMW-5**	EPA 6010D	AJM	1
		EPA 6020B	CW1, MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92749173012	**YAT-PZ-35**	EPA 6010D	AJM	1
		EPA 6020B	CW1, MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92749173013	**YAT-YGWC-50**	EPA 6010D	DRB	1
		EPA 6020B	CW1, MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92749173014	**YAT-YAMW-1**	EPA 6010D	AJM	1
		EPA 6020B	CW1, MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92749173015	**YAT-AMA-R6-FD-1**	EPA 6010D	AJM	1
		EPA 6020B	CW1, MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92749173

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 300.0 Rev 2.1 1993	JCM	3
92749173016	**YAT-YGWC-36A**	EPA 6010D	AJM	1
		EPA 6020B	CW1, MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92749173017	**YAT-YGWC-24SB**	EPA 6010D	AJM	1
		EPA 6020B	CW1, MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92749173018	**YAT-YGWC-49**	EPA 6010D	AJM	1
		EPA 6020B	MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92749173019	**YAT-YGWC-38**	EPA 6010D	AJM	1
		EPA 6020B	CW1, MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92749173020	**YAT-YGWC-41**	EPA 6010D	AJM	1
		EPA 6020B	CW1, MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92749173021	**YAT-YGWC-42**	EPA 6010D	AJM	1
		EPA 6020B	CW1, MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92749173022	**YAT-YGWC-43**	EPA 6010D	AJM	1
		EPA 6020B	CW1, MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92749173023	**YAT-AMA-R6-FB-1**	EPA 6010D	AJM	1

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92749173

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 6020B	MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92749173024	**YAT-AMA-R6-FD-2**	EPA 6010D	AJM	1
		EPA 6020B	CW1, MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3

PASI-A = Pace Analytical Services - Asheville
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

Pace Analytical Services, LLC
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SUMMARY OF DETECTION

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92749173

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92749173001	**YAT-YAMW-2**					
EPA 6010D	Calcium	1.4	mg/L	1.0	08/26/24 12:05	
EPA 6020B	Barium	0.0089	mg/L	0.0050	08/29/24 21:14	
EPA 6020B	Boron	0.034J	mg/L	0.040	08/29/24 21:14	
EPA 6020B	Cobalt	0.0023J	mg/L	0.0050	08/29/24 21:14	
EPA 6020B	Molybdenum	0.0017J	mg/L	0.010	08/29/24 21:14	
EPA 6020B	Selenium	0.0012J	mg/L	0.0050	08/29/24 21:14	
SM 2540C-2015	Total Dissolved Solids	94.0	mg/L	25.0	08/26/24 13:12	
EPA 300.0 Rev 2.1 1993	Chloride	2.4	mg/L	1.0	08/23/24 14:25	
EPA 300.0 Rev 2.1 1993	Sulfate	7.3	mg/L	1.0	08/23/24 14:25	
92749173002	**YAT-PZ-55**					
EPA 6010D	Calcium	23.4	mg/L	1.0	08/26/24 12:08	
EPA 6020B	Barium	0.042	mg/L	0.0050	08/29/24 21:18	
EPA 6020B	Boron	3.1	mg/L	0.040	08/29/24 21:18	
EPA 6020B	Cadmium	0.00081	mg/L	0.00050	08/29/24 21:18	
EPA 6020B	Cobalt	0.0018J	mg/L	0.0050	08/29/24 21:18	
EPA 6020B	Lithium	0.0030J	mg/L	0.030	08/29/24 21:18	
EPA 6020B	Molybdenum	0.0016J	mg/L	0.010	08/29/24 21:18	
EPA 6020B	Selenium	0.022	mg/L	0.0050	08/29/24 21:18	
SM 2540C-2015	Total Dissolved Solids	292	mg/L	25.0	08/26/24 13:12	
EPA 300.0 Rev 2.1 1993	Chloride	4.6	mg/L	1.0	08/23/24 14:40	
EPA 300.0 Rev 2.1 1993	Sulfate	128	mg/L	3.0	08/23/24 18:48	
92749173003	**YAT-YGWC-23S**					
EPA 6010D	Calcium	13.0	mg/L	1.0	08/26/24 12:19	
EPA 6020B	Antimony	0.00058J	mg/L	0.0030	08/29/24 21:22	
EPA 6020B	Barium	0.057	mg/L	0.0050	08/29/24 21:22	
EPA 6020B	Beryllium	0.00019J	mg/L	0.00050	08/29/24 21:22	
EPA 6020B	Boron	1.2	mg/L	0.040	08/29/24 21:22	
EPA 6020B	Lithium	0.0023J	mg/L	0.030	08/29/24 21:22	
EPA 6020B	Molybdenum	0.0016J	mg/L	0.010	08/29/24 21:22	
EPA 6020B	Selenium	0.030	mg/L	0.0050	08/29/24 21:22	
SM 2540C-2015	Total Dissolved Solids	193	mg/L	25.0	08/26/24 13:12	
EPA 300.0 Rev 2.1 1993	Chloride	2.6	mg/L	1.0	08/23/24 14:54	
EPA 300.0 Rev 2.1 1993	Sulfate	89.3	mg/L	1.0	08/23/24 14:54	
92749173004	**YAT-PZ-37**					
EPA 6010D	Calcium	111	mg/L	1.0	08/26/24 08:20	M1
EPA 6020B	Antimony	0.0085	mg/L	0.0030	08/30/24 18:50	
EPA 6020B	Arsenic	0.0037J	mg/L	0.0050	08/30/24 18:50	
EPA 6020B	Barium	0.022	mg/L	0.0050	08/30/24 18:50	
EPA 6020B	Beryllium	0.0011	mg/L	0.00050	08/30/24 18:50	
EPA 6020B	Boron	7.6	mg/L	0.040	08/30/24 18:50	M1
EPA 6020B	Cadmium	0.00081	mg/L	0.00050	08/30/24 18:50	
EPA 6020B	Cobalt	0.0037J	mg/L	0.0050	08/30/24 18:50	
EPA 6020B	Lead	0.00020J	mg/L	0.0010	08/30/24 18:50	
EPA 6020B	Lithium	0.017J	mg/L	0.030	08/30/24 18:50	
EPA 6020B	Selenium	0.12	mg/L	0.0050	08/30/24 18:50	
SM 2540C-2015	Total Dissolved Solids	834	mg/L	25.0	08/26/24 13:13	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92749173

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92749173004	**YAT-PZ-37**					
EPA 300.0 Rev 2.1 1993	Chloride	5.3	mg/L	1.0	08/23/24 15:09	
EPA 300.0 Rev 2.1 1993	Sulfate	441	mg/L	11.0	08/23/24 19:02	
92749173005	**YAT-PZ-37D**					
EPA 6010D	Calcium	86.6	mg/L	1.0	08/26/24 08:33	
EPA 6020B	Antimony	0.0013J	mg/L	0.0030	08/30/24 19:05	
EPA 6020B	Arsenic	0.0038J	mg/L	0.0050	08/30/24 19:05	
EPA 6020B	Barium	0.028	mg/L	0.0050	08/30/24 19:05	
EPA 6020B	Boron	0.96	mg/L	0.040	08/30/24 19:05	
EPA 6020B	Lithium	0.0068J	mg/L	0.030	08/30/24 19:05	
EPA 6020B	Molybdenum	0.0080J	mg/L	0.010	08/30/24 19:05	
SM 2540C-2015	Total Dissolved Solids	728	mg/L	25.0	08/26/24 13:13	
EPA 300.0 Rev 2.1 1993	Chloride	24.0	mg/L	1.0	08/23/24 15:23	
EPA 300.0 Rev 2.1 1993	Fluoride	0.25	mg/L	0.10	08/23/24 15:23	
EPA 300.0 Rev 2.1 1993	Sulfate	320	mg/L	8.0	08/23/24 19:16	
92749173006	**YAT-PZ-52D**					
EPA 6010D	Calcium	26.7	mg/L	1.0	08/26/24 08:37	
EPA 6020B	Antimony	0.00081J	mg/L	0.0030	08/30/24 19:09	
EPA 6020B	Arsenic	0.0055	mg/L	0.0050	08/30/24 19:09	
EPA 6020B	Barium	0.0079	mg/L	0.0050	08/30/24 19:09	
EPA 6020B	Boron	1.9	mg/L	0.040	08/30/24 19:09	
EPA 6020B	Cobalt	0.0024J	mg/L	0.0050	08/30/24 19:09	
EPA 6020B	Lithium	0.029J	mg/L	0.030	08/30/24 19:09	
EPA 6020B	Molybdenum	0.0021J	mg/L	0.010	08/30/24 19:09	
EPA 6020B	Selenium	0.010	mg/L	0.0050	08/30/24 19:09	
SM 2540C-2015	Total Dissolved Solids	599	mg/L	25.0	08/26/24 13:13	
EPA 300.0 Rev 2.1 1993	Chloride	1.6	mg/L	1.0	08/23/24 15:37	
EPA 300.0 Rev 2.1 1993	Sulfate	305	mg/L	7.0	08/23/24 19:31	
92749173007	**YAT-AMA-R6-EB-1**					
EPA 6020B	Arsenic	0.0038J	mg/L	0.0050	08/30/24 19:12	
EPA 6020B	Boron	0.034J	mg/L	0.040	08/30/24 19:12	
92749173008	**YAT-YAMW-3**					
EPA 6010D	Calcium	48.6	mg/L	1.0	08/26/24 19:52	
EPA 6020B	Arsenic	0.0022J	mg/L	0.0050	09/03/24 20:22	B
EPA 6020B	Barium	0.031	mg/L	0.0050	09/03/24 20:22	
EPA 6020B	Beryllium	0.00012J	mg/L	0.00050	09/03/24 20:22	
EPA 6020B	Boron	9.6	mg/L	0.40	09/04/24 15:46	M1
EPA 6020B	Cadmium	0.00025J	mg/L	0.00050	09/03/24 20:22	
EPA 6020B	Cobalt	0.035	mg/L	0.0050	09/03/24 20:22	
EPA 6020B	Lithium	0.048	mg/L	0.030	09/03/24 20:22	
EPA 6020B	Molybdenum	0.0047J	mg/L	0.010	09/03/24 20:22	
EPA 6020B	Selenium	0.028	mg/L	0.0050	09/03/24 20:22	
SM 2540C-2015	Total Dissolved Solids	742	mg/L	25.0	08/28/24 13:48	
EPA 300.0 Rev 2.1 1993	Chloride	4.4	mg/L	1.0	08/26/24 13:02	
EPA 300.0 Rev 2.1 1993	Fluoride	0.075J	mg/L	0.10	08/26/24 13:02	
EPA 300.0 Rev 2.1 1993	Sulfate	371	mg/L	8.0	08/26/24 20:00	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92749173

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92749173009	**YAT-YAMW-4**					
EPA 6010D	Calcium	14.4	mg/L	1.0	08/28/24 18:39	
EPA 6020B	Antimony	0.0013J	mg/L	0.0030	09/03/24 20:37	
EPA 6020B	Arsenic	0.0024J	mg/L	0.0050	09/03/24 20:37	B
EPA 6020B	Barium	0.0031J	mg/L	0.0050	09/03/24 20:37	
EPA 6020B	Boron	4.2	mg/L	0.20	09/05/24 16:40	
EPA 6020B	Lithium	0.035	mg/L	0.030	09/03/24 20:37	
EPA 6020B	Molybdenum	0.0074J	mg/L	0.010	09/03/24 20:37	
EPA 6020B	Selenium	0.014	mg/L	0.0050	09/03/24 20:37	
SM 2540C-2015	Total Dissolved Solids	415	mg/L	25.0	08/29/24 10:56	
EPA 300.0 Rev 2.1 1993	Chloride	1.8	mg/L	1.0	08/26/24 13:16	
EPA 300.0 Rev 2.1 1993	Fluoride	0.071J	mg/L	0.10	08/26/24 13:16	
EPA 300.0 Rev 2.1 1993	Sulfate	193	mg/L	4.0	08/26/24 20:15	
92749173010	**YAT-PZ-51**					
EPA 6010D	Calcium	57.2	mg/L	1.0	08/28/24 18:52	
EPA 6020B	Arsenic	0.0017J	mg/L	0.0050	09/03/24 20:41	B
EPA 6020B	Barium	0.014	mg/L	0.0050	09/03/24 20:41	
EPA 6020B	Beryllium	0.0032	mg/L	0.00050	09/03/24 20:41	
EPA 6020B	Boron	7.6	mg/L	0.40	09/05/24 16:45	
EPA 6020B	Cadmium	0.0017	mg/L	0.00050	09/03/24 20:41	
EPA 6020B	Cobalt	0.0048J	mg/L	0.0050	09/03/24 20:41	
EPA 6020B	Lead	0.00019J	mg/L	0.0010	09/03/24 20:41	
EPA 6020B	Lithium	0.0053J	mg/L	0.030	09/03/24 20:41	
EPA 6020B	Selenium	0.022	mg/L	0.0050	09/03/24 20:41	
SM 2540C-2015	Total Dissolved Solids	601	mg/L	25.0	08/28/24 13:48	
EPA 300.0 Rev 2.1 1993	Chloride	4.5	mg/L	1.0	08/26/24 13:30	
EPA 300.0 Rev 2.1 1993	Fluoride	0.17	mg/L	0.10	08/26/24 13:30	
EPA 300.0 Rev 2.1 1993	Sulfate	309	mg/L	7.0	08/26/24 20:30	
92749173011	**YAT-YAMW-5**					
EPA 6010D	Calcium	59.0	mg/L	1.0	08/28/24 18:56	
EPA 6020B	Arsenic	0.0025J	mg/L	0.0050	09/03/24 20:45	B
EPA 6020B	Barium	0.035	mg/L	0.0050	09/03/24 20:45	
EPA 6020B	Beryllium	0.00012J	mg/L	0.00050	09/03/24 20:45	
EPA 6020B	Boron	8.6	mg/L	0.40	09/05/24 16:49	
EPA 6020B	Cadmium	0.00023J	mg/L	0.00050	09/03/24 20:45	
EPA 6020B	Lithium	0.014J	mg/L	0.030	09/03/24 20:45	
EPA 6020B	Selenium	0.054	mg/L	0.0050	09/03/24 20:45	
SM 2540C-2015	Total Dissolved Solids	699	mg/L	25.0	08/29/24 10:57	
EPA 300.0 Rev 2.1 1993	Chloride	3.8	mg/L	1.0	08/26/24 13:45	
EPA 300.0 Rev 2.1 1993	Fluoride	0.050J	mg/L	0.10	08/26/24 13:45	
EPA 300.0 Rev 2.1 1993	Sulfate	367	mg/L	8.0	08/26/24 20:46	
92749173012	**YAT-PZ-35**					
EPA 6010D	Calcium	22.8	mg/L	1.0	08/28/24 19:29	
EPA 6020B	Arsenic	0.0014J	mg/L	0.0050	09/03/24 20:48	B
EPA 6020B	Barium	0.15	mg/L	0.0050	09/03/24 20:48	
EPA 6020B	Beryllium	0.00095	mg/L	0.00050	09/03/24 20:48	
EPA 6020B	Boron	0.15	mg/L	0.040	09/05/24 16:53	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92749173

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92749173012	**YAT-PZ-35**					
EPA 6020B	Cadmium	0.00021J	mg/L	0.00050	09/03/24 20:48	
EPA 6020B	Lead	0.0014	mg/L	0.0010	09/03/24 20:48	
EPA 6020B	Lithium	0.0028J	mg/L	0.030	09/03/24 20:48	
EPA 6020B	Selenium	0.0038J	mg/L	0.0050	09/03/24 20:48	
SM 2540C-2015	Total Dissolved Solids	267	mg/L	25.0	08/28/24 13:48	
EPA 300.0 Rev 2.1 1993	Chloride	5.0	mg/L	1.0	08/26/24 13:59	
EPA 300.0 Rev 2.1 1993	Sulfate	109	mg/L	3.0	08/26/24 21:31	
92749173013	**YAT-YGWC-50**					
EPA 6010D	Calcium	304	mg/L	5.0	08/30/24 19:08	
EPA 6020B	Antimony	0.00078J	mg/L	0.0030	09/03/24 20:59	
EPA 6020B	Arsenic	0.0044J	mg/L	0.0050	09/03/24 20:59	B
EPA 6020B	Barium	0.017	mg/L	0.0050	09/03/24 20:59	
EPA 6020B	Beryllium	0.0041	mg/L	0.00050	09/03/24 20:59	
EPA 6020B	Boron	21.5	mg/L	0.40	09/04/24 15:57	
EPA 6020B	Cadmium	0.010	mg/L	0.00050	09/03/24 20:59	
EPA 6020B	Cobalt	0.0060	mg/L	0.0050	09/03/24 20:59	
EPA 6020B	Lead	0.00023J	mg/L	0.0010	09/03/24 20:59	
EPA 6020B	Lithium	0.0031J	mg/L	0.030	09/03/24 20:59	
EPA 6020B	Selenium	0.0015J	mg/L	0.0050	09/03/24 20:59	
SM 2540C-2015	Total Dissolved Solids	2050	mg/L	25.0	08/29/24 10:57	1g
EPA 300.0 Rev 2.1 1993	Chloride	10.4	mg/L	1.0	08/27/24 01:35	
EPA 300.0 Rev 2.1 1993	Fluoride	0.085J	mg/L	0.10	08/27/24 01:35	
EPA 300.0 Rev 2.1 1993	Sulfate	1130	mg/L	28.0	08/27/24 14:27	M1
92749173014	**YAT-YAMW-1**					
EPA 6010D	Calcium	52.9	mg/L	1.0	08/28/24 19:42	
EPA 6020B	Arsenic	0.00093J	mg/L	0.0050	09/03/24 21:03	B
EPA 6020B	Barium	0.086	mg/L	0.0050	09/03/24 21:03	
EPA 6020B	Beryllium	0.000095J	mg/L	0.00050	09/03/24 21:03	
EPA 6020B	Boron	2.3	mg/L	0.20	09/05/24 16:57	
EPA 6020B	Cadmium	0.00018J	mg/L	0.00050	09/03/24 21:03	
EPA 6020B	Cobalt	0.0018J	mg/L	0.0050	09/03/24 21:03	
EPA 6020B	Lithium	0.016J	mg/L	0.030	09/03/24 21:03	
EPA 6020B	Selenium	0.0079	mg/L	0.0050	09/03/24 21:03	
EPA 7470A	Mercury	0.00014J	mg/L	0.00020	09/05/24 16:12	
SM 2540C-2015	Total Dissolved Solids	548	mg/L	25.0	08/28/24 13:50	
EPA 300.0 Rev 2.1 1993	Chloride	5.7	mg/L	1.0	08/27/24 02:18	
EPA 300.0 Rev 2.1 1993	Sulfate	279	mg/L	7.0	08/27/24 15:38	
92749173015	**YAT-AMA-R6-FD-1**					
EPA 6010D	Calcium	45.9	mg/L	1.0	08/28/24 19:46	
EPA 6020B	Antimony	0.00058J	mg/L	0.0030	09/03/24 21:07	
EPA 6020B	Arsenic	0.00099J	mg/L	0.0050	09/03/24 21:07	B
EPA 6020B	Barium	0.080	mg/L	0.0050	09/03/24 21:07	
EPA 6020B	Beryllium	0.00010J	mg/L	0.00050	09/03/24 21:07	
EPA 6020B	Boron	1.8	mg/L	0.20	09/05/24 17:01	
EPA 6020B	Cadmium	0.00023J	mg/L	0.00050	09/03/24 21:07	
EPA 6020B	Cobalt	0.0086	mg/L	0.0050	09/03/24 21:07	

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SUMMARY OF DETECTION

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92749173

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92749173015	**YAT-AMA-R6-FD-1**					
EPA 6020B	Lithium	0.020J	mg/L	0.030	09/03/24 21:07	
EPA 6020B	Selenium	0.0064	mg/L	0.0050	09/03/24 21:07	
EPA 7470A	Mercury	0.00014J	mg/L	0.00020	09/05/24 16:15	
SM 2540C-2015	Total Dissolved Solids	492	mg/L	25.0	08/28/24 13:50	
EPA 300.0 Rev 2.1 1993	Chloride	5.6	mg/L	1.0	08/27/24 03:21	
EPA 300.0 Rev 2.1 1993	Sulfate	242	mg/L	6.0	08/27/24 15:52	
92749173016	**YAT-YGWC-36A**					
EPA 6010D	Calcium	41.1	mg/L	1.0	08/28/24 19:51	
EPA 6020B	Antimony	0.0012J	mg/L	0.0030	09/03/24 21:10	
EPA 6020B	Barium	0.089	mg/L	0.0050	09/03/24 21:10	
EPA 6020B	Beryllium	0.0021	mg/L	0.00050	09/03/24 21:10	
EPA 6020B	Boron	0.16	mg/L	0.040	09/05/24 17:05	
EPA 6020B	Cadmium	0.00014J	mg/L	0.00050	09/03/24 21:10	
EPA 6020B	Lithium	0.0020J	mg/L	0.030	09/03/24 21:10	
EPA 6020B	Selenium	0.0054	mg/L	0.0050	09/03/24 21:10	
SM 2540C-2015	Total Dissolved Solids	783	mg/L	25.0	08/28/24 13:50	
EPA 300.0 Rev 2.1 1993	Chloride	4.8	mg/L	1.0	08/27/24 03:35	
EPA 300.0 Rev 2.1 1993	Sulfate	191	mg/L	5.0	08/27/24 16:06	
92749173017	**YAT-YGWC-24SB**					
EPA 6010D	Calcium	2.3	mg/L	1.0	08/28/24 19:54	
EPA 6020B	Barium	0.025	mg/L	0.0050	09/03/24 21:14	
EPA 6020B	Beryllium	0.00012J	mg/L	0.00050	09/03/24 21:14	
SM 2540C-2015	Total Dissolved Solids	82.0	mg/L	25.0	08/28/24 13:50	
EPA 300.0 Rev 2.1 1993	Chloride	8.6	mg/L	1.0	08/27/24 03:50	
92749173018	**YAT-YGWC-49**					
EPA 6010D	Calcium	10.8	mg/L	1.0	08/28/24 19:58	
EPA 6020B	Barium	0.054	mg/L	0.0050	09/03/24 21:18	
EPA 6020B	Beryllium	0.00010J	mg/L	0.00050	09/03/24 21:18	
EPA 6020B	Boron	0.035J	mg/L	0.040	09/03/24 21:18	B
EPA 6020B	Chromium	0.0020J	mg/L	0.0050	09/03/24 21:18	
EPA 6020B	Lithium	0.0029J	mg/L	0.030	09/03/24 21:18	
EPA 6020B	Selenium	0.0056	mg/L	0.0050	09/03/24 21:18	
SM 2540C-2015	Total Dissolved Solids	159	mg/L	25.0	08/28/24 13:51	
EPA 300.0 Rev 2.1 1993	Chloride	4.1	mg/L	1.0	08/27/24 04:04	
EPA 300.0 Rev 2.1 1993	Sulfate	66.4	mg/L	1.0	08/27/24 04:04	
92749173019	**YAT-YGWC-38**					
EPA 6010D	Calcium	43.8	mg/L	1.0	08/28/24 20:02	
EPA 6020B	Barium	0.016	mg/L	0.0050	09/03/24 21:21	
EPA 6020B	Beryllium	0.0015	mg/L	0.00050	09/03/24 21:21	
EPA 6020B	Boron	3.3	mg/L	0.20	09/05/24 17:14	
EPA 6020B	Cadmium	0.00063	mg/L	0.00050	09/03/24 21:21	
EPA 6020B	Lithium	0.0052J	mg/L	0.030	09/03/24 21:21	
EPA 6020B	Selenium	0.045	mg/L	0.0050	09/03/24 21:21	
SM 2540C-2015	Total Dissolved Solids	418	mg/L	25.0	08/29/24 10:57	
EPA 300.0 Rev 2.1 1993	Chloride	4.0	mg/L	1.0	08/27/24 04:18	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92749173

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92749173019	**YAT-YGWC-38**					
EPA 300.0 Rev 2.1 1993	Sulfate	186	mg/L	4.0	08/27/24 16:21	
92749173020	**YAT-YGWC-41**					
EPA 6010D	Calcium	13.6	mg/L	1.0	08/28/24 20:06	
EPA 6020B	Barium	0.019	mg/L	0.0050	09/03/24 21:25	
EPA 6020B	Beryllium	0.0011	mg/L	0.00050	09/03/24 21:25	
EPA 6020B	Boron	3.2	mg/L	0.20	09/05/24 17:18	
EPA 6020B	Lithium	0.0020J	mg/L	0.030	09/03/24 21:25	
EPA 6020B	Molybdenum	0.0019J	mg/L	0.010	09/03/24 21:25	
EPA 6020B	Selenium	0.021	mg/L	0.0050	09/03/24 21:25	
SM 2540C-2015	Total Dissolved Solids	225	mg/L	25.0	08/29/24 10:57	
EPA 300.0 Rev 2.1 1993	Chloride	3.9	mg/L	1.0	08/27/24 04:33	
EPA 300.0 Rev 2.1 1993	Sulfate	97.8	mg/L	2.0	08/27/24 16:36	
92749173021	**YAT-YGWC-42**					
EPA 6010D	Calcium	64.4	mg/L	1.0	08/28/24 20:09	
EPA 6020B	Arsenic	0.0021J	mg/L	0.0050	09/03/24 21:29	B
EPA 6020B	Barium	0.022	mg/L	0.0050	09/03/24 21:29	
EPA 6020B	Boron	12.4	mg/L	0.40	09/04/24 16:01	
EPA 6020B	Cobalt	0.0017J	mg/L	0.0050	09/03/24 21:29	
EPA 6020B	Lithium	0.051	mg/L	0.030	09/03/24 21:29	
EPA 6020B	Molybdenum	0.00071J	mg/L	0.010	09/03/24 21:29	
EPA 6020B	Selenium	0.038	mg/L	0.0050	09/03/24 21:29	
SM 2540C-2015	Total Dissolved Solids	830	mg/L	25.0	08/28/24 13:51	
EPA 300.0 Rev 2.1 1993	Chloride	3.1	mg/L	1.0	08/27/24 04:47	
EPA 300.0 Rev 2.1 1993	Sulfate	432	mg/L	10.0	08/27/24 16:50	
92749173022	**YAT-YGWC-43**					
EPA 6010D	Calcium	14.8	mg/L	1.0	08/28/24 20:13	
EPA 6020B	Arsenic	0.00095J	mg/L	0.0050	09/03/24 21:32	B
EPA 6020B	Barium	0.035	mg/L	0.0050	09/03/24 21:32	
EPA 6020B	Beryllium	0.00043J	mg/L	0.00050	09/03/24 21:32	
EPA 6020B	Boron	3.5	mg/L	0.20	09/05/24 17:33	
EPA 6020B	Cobalt	0.00057J	mg/L	0.0050	09/03/24 21:32	
EPA 6020B	Lithium	0.015J	mg/L	0.030	09/03/24 21:32	
EPA 6020B	Molybdenum	0.0013J	mg/L	0.010	09/03/24 21:32	
SM 2540C-2015	Total Dissolved Solids	412	mg/L	25.0	08/28/24 13:51	
EPA 300.0 Rev 2.1 1993	Chloride	2.7	mg/L	1.0	08/27/24 05:02	
EPA 300.0 Rev 2.1 1993	Fluoride	0.050J	mg/L	0.10	08/27/24 05:02	
EPA 300.0 Rev 2.1 1993	Sulfate	181	mg/L	4.0	08/27/24 17:04	
92749173023	**YAT-AMA-R6-FB-1**					
EPA 6020B	Boron	0.035J	mg/L	0.040	09/03/24 21:44	B
SM 2540C-2015	Total Dissolved Solids	64.0	mg/L	25.0	08/28/24 13:51	
92749173024	**YAT-AMA-R6-FD-2**					
EPA 6010D	Calcium	44.2	mg/L	1.0	08/28/24 20:27	
EPA 6020B	Arsenic	0.00084J	mg/L	0.0050	09/03/24 21:47	B
EPA 6020B	Barium	0.016	mg/L	0.0050	09/03/24 21:47	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92749173

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92749173024	**YAT-AMA-R6-FD-2**					
EPA 6020B	Beryllium	0.0016	mg/L	0.00050	09/03/24 21:47	
EPA 6020B	Boron	3.3	mg/L	0.20	09/05/24 17:37	
EPA 6020B	Cadmium	0.00065	mg/L	0.00050	09/03/24 21:47	
EPA 6020B	Lithium	0.0053J	mg/L	0.030	09/03/24 21:47	
EPA 6020B	Selenium	0.046	mg/L	0.0050	09/03/24 21:47	
SM 2540C-2015	Total Dissolved Solids	381	mg/L	25.0	08/28/24 13:52	
EPA 300.0 Rev 2.1 1993	Chloride	3.9	mg/L	1.0	08/27/24 05:16	
EPA 300.0 Rev 2.1 1993	Sulfate	186	mg/L	4.0	08/27/24 17:18	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92749173

Sample: YAT-YAMW-2 **Lab ID: 92749173001** Collected: 08/21/24 16:55 Received: 08/22/24 09:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**1.4**	mg/L	1.0	0.12	1	08/24/24 12:03	08/26/24 12:05	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/23/24 15:48	08/29/24 21:14	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/23/24 15:48	09/04/24 14:16	7440-38-2	
Barium	**0.0089**	mg/L	0.0050	0.00047	1	08/23/24 15:48	08/29/24 21:14	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/23/24 15:48	08/29/24 21:14	7440-41-7	
Boron	**0.034J**	mg/L	0.040	0.012	1	08/23/24 15:48	08/29/24 21:14	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/23/24 15:48	08/29/24 21:14	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/23/24 15:48	08/29/24 21:14	7440-47-3	
Cobalt	**0.0023J**	mg/L	0.0050	0.00032	1	08/23/24 15:48	08/29/24 21:14	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/23/24 15:48	08/29/24 21:14	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	08/23/24 15:48	08/29/24 21:14	7439-93-2	
Molybdenum	**0.0017J**	mg/L	0.010	0.00062	1	08/23/24 15:48	08/29/24 21:14	7439-98-7	
Selenium	**0.0012J**	mg/L	0.0050	0.00096	1	08/23/24 15:48	08/29/24 21:14	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/23/24 15:48	08/29/24 21:14	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 10:30	09/05/24 15:04	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**94.0**	mg/L	25.0	25.0	1		08/26/24 13:12		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.4**	mg/L	1.0	0.60	1		08/23/24 14:25	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/23/24 14:25	16984-48-8	
Sulfate	**7.3**	mg/L	1.0	0.50	1		08/23/24 14:25	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92749173

Sample: YAT-PZ-55 **Lab ID: 92749173002** Collected: 08/21/24 16:03 Received: 08/22/24 09:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**23.4**	mg/L	1.0	0.12	1	08/24/24 12:03	08/26/24 12:08	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/23/24 15:48	08/29/24 21:18	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/23/24 15:48	09/04/24 14:20	7440-38-2	
Barium	**0.042**	mg/L	0.0050	0.00047	1	08/23/24 15:48	08/29/24 21:18	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/23/24 15:48	08/29/24 21:18	7440-41-7	
Boron	**3.1**	mg/L	0.040	0.012	1	08/23/24 15:48	08/29/24 21:18	7440-42-8	
Cadmium	**0.00081**	mg/L	0.00050	0.00010	1	08/23/24 15:48	08/29/24 21:18	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/23/24 15:48	08/29/24 21:18	7440-47-3	
Cobalt	**0.0018J**	mg/L	0.0050	0.00032	1	08/23/24 15:48	08/29/24 21:18	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/23/24 15:48	08/29/24 21:18	7439-92-1	
Lithium	**0.0030J**	mg/L	0.030	0.0016	1	08/23/24 15:48	08/29/24 21:18	7439-93-2	
Molybdenum	**0.0016J**	mg/L	0.010	0.00062	1	08/23/24 15:48	08/29/24 21:18	7439-98-7	
Selenium	**0.022**	mg/L	0.0050	0.00096	1	08/23/24 15:48	08/29/24 21:18	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/23/24 15:48	08/29/24 21:18	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 10:30	09/05/24 15:07	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**292**	mg/L	25.0	25.0	1		08/26/24 13:12		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.6**	mg/L	1.0	0.60	1		08/23/24 14:40	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/23/24 14:40	16984-48-8	
Sulfate	**128**	mg/L	3.0	1.5	3		08/23/24 18:48	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92749173

Sample: YAT-YGWC-23S **Lab ID: 92749173003** Collected: 08/21/24 17:40 Received: 08/22/24 09:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**13.0**	mg/L	1.0	0.12	1	08/24/24 12:03	08/26/24 12:19	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.00058J**	mg/L	0.0030	0.00054	1	08/23/24 15:48	08/29/24 21:22	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/23/24 15:48	09/04/24 14:24	7440-38-2	
Barium	**0.057**	mg/L	0.0050	0.00047	1	08/23/24 15:48	08/29/24 21:22	7440-39-3	
Beryllium	**0.00019J**	mg/L	0.00050	0.000094	1	08/23/24 15:48	08/29/24 21:22	7440-41-7	
Boron	**1.2**	mg/L	0.040	0.012	1	08/23/24 15:48	08/29/24 21:22	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/23/24 15:48	08/29/24 21:22	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/23/24 15:48	08/29/24 21:22	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/23/24 15:48	08/29/24 21:22	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/23/24 15:48	08/29/24 21:22	7439-92-1	
Lithium	**0.0023J**	mg/L	0.030	0.0016	1	08/23/24 15:48	08/29/24 21:22	7439-93-2	
Molybdenum	**0.0016J**	mg/L	0.010	0.00062	1	08/23/24 15:48	08/29/24 21:22	7439-98-7	
Selenium	**0.030**	mg/L	0.0050	0.00096	1	08/23/24 15:48	08/29/24 21:22	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/23/24 15:48	08/29/24 21:22	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 10:30	09/05/24 15:10	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**193**	mg/L	25.0	25.0	1		08/26/24 13:12		
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		08/23/24 14:54	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/23/24 14:54	16984-48-8	
Sulfate	**89.3**	mg/L	1.0	0.50	1		08/23/24 14:54	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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(704)875-9092

ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92749173

Sample: YAT-PZ-37 **Lab ID: 92749173004** Collected: 08/21/24 12:10 Received: 08/22/24 09:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**111**	mg/L	1.0	0.12	1	08/24/24 12:03	08/26/24 08:20	7440-70-2	M1
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0085**	mg/L	0.0030	0.00054	1	08/24/24 14:01	08/30/24 18:50	7440-36-0	
Arsenic	**0.0037J**	mg/L	0.0050	0.00084	1	08/24/24 14:01	08/30/24 18:50	7440-38-2	
Barium	**0.022**	mg/L	0.0050	0.00047	1	08/24/24 14:01	08/30/24 18:50	7440-39-3	
Beryllium	**0.0011**	mg/L	0.00050	0.000094	1	08/24/24 14:01	08/30/24 18:50	7440-41-7	
Boron	**7.6**	mg/L	0.040	0.012	1	08/24/24 14:01	08/30/24 18:50	7440-42-8	M1
Cadmium	**0.00081**	mg/L	0.00050	0.00010	1	08/24/24 14:01	08/30/24 18:50	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/24/24 14:01	08/30/24 18:50	7440-47-3	
Cobalt	**0.0037J**	mg/L	0.0050	0.00032	1	08/24/24 14:01	08/30/24 18:50	7440-48-4	
Lead	**0.00020J**	mg/L	0.0010	0.00016	1	08/24/24 14:01	08/30/24 18:50	7439-92-1	
Lithium	**0.017J**	mg/L	0.030	0.0016	1	08/24/24 14:01	08/30/24 18:50	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/24/24 14:01	08/30/24 18:50	7439-98-7	
Selenium	**0.12**	mg/L	0.0050	0.00096	1	08/24/24 14:01	08/30/24 18:50	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/24/24 14:01	08/30/24 18:50	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 10:30	09/05/24 15:12	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**834**	mg/L	25.0	25.0	1		08/26/24 13:13		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.3**	mg/L	1.0	0.60	1		08/23/24 15:09	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/23/24 15:09	16984-48-8	
Sulfate	**441**	mg/L	11.0	5.5	11		08/23/24 19:02	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92749173

Sample: YAT-PZ-37D **Lab ID: 92749173005** Collected: 08/21/24 15:35 Received: 08/22/24 09:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**86.6**	mg/L	1.0	0.12	1	08/24/24 12:03	08/26/24 08:33	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0013J**	mg/L	0.0030	0.00054	1	08/24/24 14:01	08/30/24 19:05	7440-36-0	
Arsenic	**0.0038J**	mg/L	0.0050	0.00084	1	08/24/24 14:01	08/30/24 19:05	7440-38-2	
Barium	**0.028**	mg/L	0.0050	0.00047	1	08/24/24 14:01	08/30/24 19:05	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/24/24 14:01	08/30/24 19:05	7440-41-7	
Boron	**0.96**	mg/L	0.040	0.012	1	08/24/24 14:01	08/30/24 19:05	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/24/24 14:01	08/30/24 19:05	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/24/24 14:01	08/30/24 19:05	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/24/24 14:01	08/30/24 19:05	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/24/24 14:01	08/30/24 19:05	7439-92-1	
Lithium	**0.0068J**	mg/L	0.030	0.0016	1	08/24/24 14:01	08/30/24 19:05	7439-93-2	
Molybdenum	**0.0080J**	mg/L	0.010	0.00062	1	08/24/24 14:01	08/30/24 19:05	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/24/24 14:01	08/30/24 19:05	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/24/24 14:01	08/30/24 19:05	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 10:30	09/05/24 15:15	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**728**	mg/L	25.0	25.0	1		08/26/24 13:13		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**24.0**	mg/L	1.0	0.60	1		08/23/24 15:23	16887-00-6	
Fluoride	**0.25**	mg/L	0.10	0.050	1		08/23/24 15:23	16984-48-8	
Sulfate	**320**	mg/L	8.0	4.0	8		08/23/24 19:16	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92749173

Sample: YAT-PZ-52D **Lab ID: 92749173006** Collected: 08/21/24 10:15 Received: 08/22/24 09:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**26.7**	mg/L	1.0	0.12	1	08/24/24 12:03	08/26/24 08:37	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.00081J**	mg/L	0.0030	0.00054	1	08/24/24 14:01	08/30/24 19:09	7440-36-0	
Arsenic	**0.0055**	mg/L	0.0050	0.00084	1	08/24/24 14:01	08/30/24 19:09	7440-38-2	
Barium	**0.0079**	mg/L	0.0050	0.00047	1	08/24/24 14:01	08/30/24 19:09	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/24/24 14:01	08/30/24 19:09	7440-41-7	
Boron	**1.9**	mg/L	0.040	0.012	1	08/24/24 14:01	08/30/24 19:09	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/24/24 14:01	08/30/24 19:09	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/24/24 14:01	08/30/24 19:09	7440-47-3	
Cobalt	**0.0024J**	mg/L	0.0050	0.00032	1	08/24/24 14:01	08/30/24 19:09	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/24/24 14:01	08/30/24 19:09	7439-92-1	
Lithium	**0.029J**	mg/L	0.030	0.0016	1	08/24/24 14:01	08/30/24 19:09	7439-93-2	
Molybdenum	**0.0021J**	mg/L	0.010	0.00062	1	08/24/24 14:01	08/30/24 19:09	7439-98-7	
Selenium	**0.010**	mg/L	0.0050	0.00096	1	08/24/24 14:01	08/30/24 19:09	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/24/24 14:01	08/30/24 19:09	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 12:30	09/05/24 15:37	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**599**	mg/L	25.0	25.0	1		08/26/24 13:13		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.6**	mg/L	1.0	0.60	1		08/23/24 15:37	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/23/24 15:37	16984-48-8	
Sulfate	**305**	mg/L	7.0	3.5	7		08/23/24 19:31	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92749173

Sample: YAT-AMA-R6-EB-1 **Lab ID: 92749173007** Collected: 08/21/24 18:40 Received: 08/22/24 09:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.12	1	08/24/24 12:03	08/26/24 08:41	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/24/24 14:01	08/30/24 19:12	7440-36-0	
Arsenic	**0.0038J**	mg/L	0.0050	0.00084	1	08/24/24 14:01	08/30/24 19:12	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	08/24/24 14:01	08/30/24 19:12	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/24/24 14:01	08/30/24 19:12	7440-41-7	
Boron	**0.034J**	mg/L	0.040	0.012	1	08/24/24 14:01	08/30/24 19:12	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/24/24 14:01	08/30/24 19:12	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/24/24 14:01	08/30/24 19:12	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/24/24 14:01	08/30/24 19:12	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/24/24 14:01	08/30/24 19:12	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	08/24/24 14:01	08/30/24 19:12	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/24/24 14:01	08/30/24 19:12	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/24/24 14:01	08/30/24 19:12	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/24/24 14:01	08/30/24 19:12	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 12:30	09/05/24 15:49	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		08/27/24 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		08/23/24 00:34	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/23/24 00:34	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		08/23/24 00:34	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92749173

Sample: YAT-YAMW-3 **Lab ID: 92749173008** Collected: 08/22/24 09:49 Received: 08/23/24 13:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**48.6**	mg/L	1.0	0.12	1	08/24/24 12:34	08/26/24 19:52	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/27/24 14:36	09/03/24 20:22	7440-36-0	
Arsenic	**0.0022J**	mg/L	0.0050	0.00084	1	08/27/24 14:36	09/03/24 20:22	7440-38-2	B
Barium	**0.031**	mg/L	0.0050	0.00047	1	08/27/24 14:36	09/03/24 20:22	7440-39-3	
Beryllium	**0.00012J**	mg/L	0.00050	0.000094	1	08/27/24 14:36	09/03/24 20:22	7440-41-7	
Boron	**9.6**	mg/L	0.40	0.12	10	08/27/24 14:36	09/04/24 15:46	7440-42-8	M1
Cadmium	**0.00025J**	mg/L	0.00050	0.00010	1	08/27/24 14:36	09/03/24 20:22	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/27/24 14:36	09/03/24 20:22	7440-47-3	
Cobalt	**0.035**	mg/L	0.0050	0.00032	1	08/27/24 14:36	09/03/24 20:22	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/27/24 14:36	09/03/24 20:22	7439-92-1	
Lithium	**0.048**	mg/L	0.030	0.0016	1	08/27/24 14:36	09/03/24 20:22	7439-93-2	
Molybdenum	**0.0047J**	mg/L	0.010	0.00062	1	08/27/24 14:36	09/03/24 20:22	7439-98-7	
Selenium	**0.028**	mg/L	0.0050	0.00096	1	08/27/24 14:36	09/03/24 20:22	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/27/24 14:36	09/03/24 20:22	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 12:30	09/05/24 15:51	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**742**	mg/L	25.0	25.0	1		08/28/24 13:48		
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		08/26/24 13:02	16887-00-6	
Fluoride	**0.075J**	mg/L	0.10	0.050	1		08/26/24 13:02	16984-48-8	
Sulfate	**371**	mg/L	8.0	4.0	8		08/26/24 20:00	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92749173

Sample: YAT-YAMW-4 **Lab ID: 92749173009** Collected: 08/23/24 08:39 Received: 08/23/24 13:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**14.4**	mg/L	1.0	0.12	1	08/28/24 15:20	08/28/24 18:39	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0013J**	mg/L	0.0030	0.00054	1	08/27/24 14:36	09/03/24 20:37	7440-36-0	
Arsenic	**0.0024J**	mg/L	0.0050	0.00084	1	08/27/24 14:36	09/03/24 20:37	7440-38-2	B
Barium	**0.0031J**	mg/L	0.0050	0.00047	1	08/27/24 14:36	09/03/24 20:37	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/27/24 14:36	09/03/24 20:37	7440-41-7	
Boron	**4.2**	mg/L	0.20	0.060	5	08/27/24 14:36	09/05/24 16:40	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/27/24 14:36	09/03/24 20:37	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/27/24 14:36	09/03/24 20:37	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/27/24 14:36	09/03/24 20:37	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/27/24 14:36	09/03/24 20:37	7439-92-1	
Lithium	**0.035**	mg/L	0.030	0.0016	1	08/27/24 14:36	09/03/24 20:37	7439-93-2	
Molybdenum	**0.0074J**	mg/L	0.010	0.00062	1	08/27/24 14:36	09/03/24 20:37	7439-98-7	
Selenium	**0.014**	mg/L	0.0050	0.00096	1	08/27/24 14:36	09/03/24 20:37	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/27/24 14:36	09/03/24 20:37	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 12:30	09/05/24 15:54	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**415**	mg/L	25.0	25.0	1		08/29/24 10:56		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.8**	mg/L	1.0	0.60	1		08/26/24 13:16	16887-00-6	
Fluoride	**0.071J**	mg/L	0.10	0.050	1		08/26/24 13:16	16984-48-8	
Sulfate	**193**	mg/L	4.0	2.0	4		08/26/24 20:15	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92749173

Sample: YAT-PZ-51 **Lab ID: 92749173010** Collected: 08/22/24 16:06 Received: 08/23/24 13:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**57.2**	mg/L	1.0	0.12	1	08/28/24 15:20	08/28/24 18:52	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/27/24 14:36	09/03/24 20:41	7440-36-0	
Arsenic	**0.0017J**	mg/L	0.0050	0.00084	1	08/27/24 14:36	09/03/24 20:41	7440-38-2	B
Barium	**0.014**	mg/L	0.0050	0.00047	1	08/27/24 14:36	09/03/24 20:41	7440-39-3	
Beryllium	**0.0032**	mg/L	0.00050	0.000094	1	08/27/24 14:36	09/03/24 20:41	7440-41-7	
Boron	**7.6**	mg/L	0.40	0.12	10	08/27/24 14:36	09/05/24 16:45	7440-42-8	
Cadmium	**0.0017**	mg/L	0.00050	0.00010	1	08/27/24 14:36	09/03/24 20:41	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/27/24 14:36	09/03/24 20:41	7440-47-3	
Cobalt	**0.0048J**	mg/L	0.0050	0.00032	1	08/27/24 14:36	09/03/24 20:41	7440-48-4	
Lead	**0.00019J**	mg/L	0.0010	0.00016	1	08/27/24 14:36	09/03/24 20:41	7439-92-1	
Lithium	**0.0053J**	mg/L	0.030	0.0016	1	08/27/24 14:36	09/03/24 20:41	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/27/24 14:36	09/03/24 20:41	7439-98-7	
Selenium	**0.022**	mg/L	0.0050	0.00096	1	08/27/24 14:36	09/03/24 20:41	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/27/24 14:36	09/03/24 20:41	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 12:30	09/05/24 16:02	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**601**	mg/L	25.0	25.0	1		08/28/24 13:48		
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		08/26/24 13:30	16887-00-6	
Fluoride	**0.17**	mg/L	0.10	0.050	1		08/26/24 13:30	16984-48-8	
Sulfate	**309**	mg/L	7.0	3.5	7		08/26/24 20:30	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92749173

Sample: YAT-YAMW-5 **Lab ID: 92749173011** Collected: 08/23/24 08:55 Received: 08/23/24 13:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**59.0**	mg/L	1.0	0.12	1	08/28/24 15:20	08/28/24 18:56	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/27/24 14:36	09/03/24 20:45	7440-36-0	
Arsenic	**0.0025J**	mg/L	0.0050	0.00084	1	08/27/24 14:36	09/03/24 20:45	7440-38-2	B
Barium	**0.035**	mg/L	0.0050	0.00047	1	08/27/24 14:36	09/03/24 20:45	7440-39-3	
Beryllium	**0.00012J**	mg/L	0.00050	0.000094	1	08/27/24 14:36	09/03/24 20:45	7440-41-7	
Boron	**8.6**	mg/L	0.40	0.12	10	08/27/24 14:36	09/05/24 16:49	7440-42-8	
Cadmium	**0.00023J**	mg/L	0.00050	0.00010	1	08/27/24 14:36	09/03/24 20:45	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/27/24 14:36	09/03/24 20:45	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/27/24 14:36	09/03/24 20:45	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/27/24 14:36	09/03/24 20:45	7439-92-1	
Lithium	**0.014J**	mg/L	0.030	0.0016	1	08/27/24 14:36	09/03/24 20:45	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/27/24 14:36	09/03/24 20:45	7439-98-7	
Selenium	**0.054**	mg/L	0.0050	0.00096	1	08/27/24 14:36	09/03/24 20:45	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/27/24 14:36	09/03/24 20:45	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 12:30	09/05/24 16:05	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**699**	mg/L	25.0	25.0	1		08/29/24 10:57		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.8**	mg/L	1.0	0.60	1		08/26/24 13:45	16887-00-6	
Fluoride	**0.050J**	mg/L	0.10	0.050	1		08/26/24 13:45	16984-48-8	
Sulfate	**367**	mg/L	8.0	4.0	8		08/26/24 20:46	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92749173

Sample: YAT-PZ-35 **Lab ID: 92749173012** Collected: 08/22/24 12:40 Received: 08/23/24 13:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**22.8**	mg/L	1.0	0.12	1	08/28/24 15:20	08/28/24 19:29	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/27/24 14:36	09/03/24 20:48	7440-36-0	
Arsenic	**0.0014J**	mg/L	0.0050	0.00084	1	08/27/24 14:36	09/03/24 20:48	7440-38-2	B
Barium	**0.15**	mg/L	0.0050	0.00047	1	08/27/24 14:36	09/03/24 20:48	7440-39-3	
Beryllium	**0.00095**	mg/L	0.00050	0.000094	1	08/27/24 14:36	09/03/24 20:48	7440-41-7	
Boron	**0.15**	mg/L	0.040	0.012	1	08/27/24 14:36	09/05/24 16:53	7440-42-8	
Cadmium	**0.00021J**	mg/L	0.00050	0.00010	1	08/27/24 14:36	09/03/24 20:48	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/27/24 14:36	09/03/24 20:48	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/27/24 14:36	09/03/24 20:48	7440-48-4	
Lead	**0.0014**	mg/L	0.0010	0.00016	1	08/27/24 14:36	09/03/24 20:48	7439-92-1	
Lithium	**0.0028J**	mg/L	0.030	0.0016	1	08/27/24 14:36	09/03/24 20:48	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/27/24 14:36	09/03/24 20:48	7439-98-7	
Selenium	**0.0038J**	mg/L	0.0050	0.00096	1	08/27/24 14:36	09/03/24 20:48	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/27/24 14:36	09/03/24 20:48	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 12:30	09/05/24 16:07	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**267**	mg/L	25.0	25.0	1		08/28/24 13:48		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.0**	mg/L	1.0	0.60	1		08/26/24 13:59	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/26/24 13:59	16984-48-8	
Sulfate	**109**	mg/L	3.0	1.5	3		08/26/24 21:31	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92749173

Sample: YAT-YGWC-50 **Lab ID: 92749173013** Collected: 08/23/24 09:05 Received: 08/23/24 13:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**304**	mg/L	5.0	0.61	5	08/28/24 15:20	08/30/24 19:08	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.00078J**	mg/L	0.0030	0.00054	1	08/27/24 14:36	09/03/24 20:59	7440-36-0	
Arsenic	**0.0044J**	mg/L	0.0050	0.00084	1	08/27/24 14:36	09/03/24 20:59	7440-38-2	B
Barium	**0.017**	mg/L	0.0050	0.00047	1	08/27/24 14:36	09/03/24 20:59	7440-39-3	
Beryllium	**0.0041**	mg/L	0.00050	0.000094	1	08/27/24 14:36	09/03/24 20:59	7440-41-7	
Boron	**21.5**	mg/L	0.40	0.12	10	08/27/24 14:36	09/04/24 15:57	7440-42-8	
Cadmium	**0.010**	mg/L	0.00050	0.00010	1	08/27/24 14:36	09/03/24 20:59	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/27/24 14:36	09/03/24 20:59	7440-47-3	
Cobalt	**0.0060**	mg/L	0.0050	0.00032	1	08/27/24 14:36	09/03/24 20:59	7440-48-4	
Lead	**0.00023J**	mg/L	0.0010	0.00016	1	08/27/24 14:36	09/03/24 20:59	7439-92-1	
Lithium	**0.0031J**	mg/L	0.030	0.0016	1	08/27/24 14:36	09/03/24 20:59	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/27/24 14:36	09/03/24 20:59	7439-98-7	
Selenium	**0.0015J**	mg/L	0.0050	0.00096	1	08/27/24 14:36	09/03/24 20:59	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/27/24 14:36	09/03/24 20:59	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 12:30	09/05/24 16:10	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**2050**	mg/L	25.0	25.0	1		08/29/24 10:57		1g
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**10.4**	mg/L	1.0	0.60	1		08/27/24 01:35	16887-00-6	
Fluoride	**0.085J**	mg/L	0.10	0.050	1		08/27/24 01:35	16984-48-8	
Sulfate	**1130**	mg/L	28.0	14.0	28		08/27/24 14:27	14808-79-8	M1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92749173

Sample: YAT-YAMW-1 **Lab ID: 92749173014** Collected: 08/22/24 10:15 Received: 08/23/24 13:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**52.9**	mg/L	1.0	0.12	1	08/28/24 15:20	08/28/24 19:42	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/27/24 14:36	09/03/24 21:03	7440-36-0	
Arsenic	**0.00093J**	mg/L	0.0050	0.00084	1	08/27/24 14:36	09/03/24 21:03	7440-38-2	B
Barium	**0.086**	mg/L	0.0050	0.00047	1	08/27/24 14:36	09/03/24 21:03	7440-39-3	
Beryllium	**0.000095J**	mg/L	0.00050	0.000094	1	08/27/24 14:36	09/03/24 21:03	7440-41-7	
Boron	**2.3**	mg/L	0.20	0.060	5	08/27/24 14:36	09/05/24 16:57	7440-42-8	
Cadmium	**0.00018J**	mg/L	0.00050	0.00010	1	08/27/24 14:36	09/03/24 21:03	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/27/24 14:36	09/03/24 21:03	7440-47-3	
Cobalt	**0.0018J**	mg/L	0.0050	0.00032	1	08/27/24 14:36	09/03/24 21:03	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/27/24 14:36	09/03/24 21:03	7439-92-1	
Lithium	**0.016J**	mg/L	0.030	0.0016	1	08/27/24 14:36	09/03/24 21:03	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/27/24 14:36	09/03/24 21:03	7439-98-7	
Selenium	**0.0079**	mg/L	0.0050	0.00096	1	08/27/24 14:36	09/03/24 21:03	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/27/24 14:36	09/03/24 21:03	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.00014J**	mg/L	0.00020	0.00013	1	09/05/24 12:30	09/05/24 16:12	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**548**	mg/L	25.0	25.0	1		08/28/24 13:50		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.7**	mg/L	1.0	0.60	1		08/27/24 02:18	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/27/24 02:18	16984-48-8	
Sulfate	**279**	mg/L	7.0	3.5	7		08/27/24 15:38	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92749173

Sample: YAT-AMA-R6-FD-1 **Lab ID: 92749173015** Collected: 08/22/24 00:00 Received: 08/23/24 13:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**45.9**	mg/L	1.0	0.12	1	08/28/24 15:20	08/28/24 19:46	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.00058J**	mg/L	0.0030	0.00054	1	08/27/24 14:36	09/03/24 21:07	7440-36-0	
Arsenic	**0.00099J**	mg/L	0.0050	0.00084	1	08/27/24 14:36	09/03/24 21:07	7440-38-2	B
Barium	**0.080**	mg/L	0.0050	0.00047	1	08/27/24 14:36	09/03/24 21:07	7440-39-3	
Beryllium	**0.00010J**	mg/L	0.00050	0.000094	1	08/27/24 14:36	09/03/24 21:07	7440-41-7	
Boron	**1.8**	mg/L	0.20	0.060	5	08/27/24 14:36	09/05/24 17:01	7440-42-8	
Cadmium	**0.00023J**	mg/L	0.00050	0.00010	1	08/27/24 14:36	09/03/24 21:07	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/27/24 14:36	09/03/24 21:07	7440-47-3	
Cobalt	**0.0086**	mg/L	0.0050	0.00032	1	08/27/24 14:36	09/03/24 21:07	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/27/24 14:36	09/03/24 21:07	7439-92-1	
Lithium	**0.020J**	mg/L	0.030	0.0016	1	08/27/24 14:36	09/03/24 21:07	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/27/24 14:36	09/03/24 21:07	7439-98-7	
Selenium	**0.0064**	mg/L	0.0050	0.00096	1	08/27/24 14:36	09/03/24 21:07	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/27/24 14:36	09/03/24 21:07	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.00014J**	mg/L	0.00020	0.00013	1	09/05/24 12:30	09/05/24 16:15	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**492**	mg/L	25.0	25.0	1		08/28/24 13:50		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.6**	mg/L	1.0	0.60	1		08/27/24 03:21	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/27/24 03:21	16984-48-8	
Sulfate	**242**	mg/L	6.0	3.0	6		08/27/24 15:52	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92749173

Sample: YAT-YGWC-36A **Lab ID: 92749173016** Collected: 08/22/24 15:05 Received: 08/23/24 13:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**41.1**	mg/L	1.0	0.12	1	08/28/24 15:20	08/28/24 19:51	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0012J**	mg/L	0.0030	0.00054	1	08/27/24 14:36	09/03/24 21:10	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/27/24 14:36	09/03/24 21:10	7440-38-2	
Barium	**0.089**	mg/L	0.0050	0.00047	1	08/27/24 14:36	09/03/24 21:10	7440-39-3	
Beryllium	**0.0021**	mg/L	0.00050	0.000094	1	08/27/24 14:36	09/03/24 21:10	7440-41-7	
Boron	**0.16**	mg/L	0.040	0.012	1	08/27/24 14:36	09/05/24 17:05	7440-42-8	
Cadmium	**0.00014J**	mg/L	0.00050	0.00010	1	08/27/24 14:36	09/03/24 21:10	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/27/24 14:36	09/03/24 21:10	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/27/24 14:36	09/03/24 21:10	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/27/24 14:36	09/03/24 21:10	7439-92-1	
Lithium	**0.0020J**	mg/L	0.030	0.0016	1	08/27/24 14:36	09/03/24 21:10	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/27/24 14:36	09/03/24 21:10	7439-98-7	
Selenium	**0.0054**	mg/L	0.0050	0.00096	1	08/27/24 14:36	09/03/24 21:10	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/27/24 14:36	09/03/24 21:10	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 12:30	09/05/24 16:18	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**783**	mg/L	25.0	25.0	1		08/28/24 13:50		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.8**	mg/L	1.0	0.60	1		08/27/24 03:35	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/27/24 03:35	16984-48-8	
Sulfate	**191**	mg/L	5.0	2.5	5		08/27/24 16:06	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92749173

Sample: YAT-YGWC-24SB **Lab ID: 92749173017** Collected: 08/22/24 17:40 Received: 08/23/24 13:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**2.3**	mg/L	1.0	0.12	1	08/28/24 15:20	08/28/24 19:54	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/27/24 14:36	09/03/24 21:14	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/27/24 14:36	09/03/24 21:14	7440-38-2	
Barium	**0.025**	mg/L	0.0050	0.00047	1	08/27/24 14:36	09/03/24 21:14	7440-39-3	
Beryllium	**0.00012J**	mg/L	0.00050	0.000094	1	08/27/24 14:36	09/03/24 21:14	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	08/27/24 14:36	09/05/24 17:09	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/27/24 14:36	09/03/24 21:14	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/27/24 14:36	09/03/24 21:14	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/27/24 14:36	09/03/24 21:14	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/27/24 14:36	09/03/24 21:14	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	08/27/24 14:36	09/03/24 21:14	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/27/24 14:36	09/03/24 21:14	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/27/24 14:36	09/03/24 21:14	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/27/24 14:36	09/03/24 21:14	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 12:30	09/05/24 16:20	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**82.0**	mg/L	25.0	25.0	1		08/28/24 13:50		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**8.6**	mg/L	1.0	0.60	1		08/27/24 03:50	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/27/24 03:50	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		08/27/24 03:50	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92749173

Sample: YAT-YGWC-49 **Lab ID: 92749173018** Collected: 08/22/24 09:35 Received: 08/23/24 13:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**10.8**	mg/L	1.0	0.12	1	08/28/24 15:20	08/28/24 19:58	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/27/24 14:36	09/03/24 21:18	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/27/24 14:36	09/03/24 21:18	7440-38-2	
Barium	**0.054**	mg/L	0.0050	0.00047	1	08/27/24 14:36	09/03/24 21:18	7440-39-3	
Beryllium	**0.00010J**	mg/L	0.00050	0.000094	1	08/27/24 14:36	09/03/24 21:18	7440-41-7	
Boron	**0.035J**	mg/L	0.040	0.012	1	08/27/24 14:36	09/03/24 21:18	7440-42-8	B
Cadmium	ND	mg/L	0.00050	0.00010	1	08/27/24 14:36	09/03/24 21:18	7440-43-9	
Chromium	**0.0020J**	mg/L	0.0050	0.0019	1	08/27/24 14:36	09/03/24 21:18	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/27/24 14:36	09/03/24 21:18	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/27/24 14:36	09/03/24 21:18	7439-92-1	
Lithium	**0.0029J**	mg/L	0.030	0.0016	1	08/27/24 14:36	09/03/24 21:18	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/27/24 14:36	09/03/24 21:18	7439-98-7	
Selenium	**0.0056**	mg/L	0.0050	0.00096	1	08/27/24 14:36	09/03/24 21:18	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/27/24 14:36	09/03/24 21:18	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 12:30	09/05/24 16:23	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**159**	mg/L	25.0	25.0	1		08/28/24 13:51		
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		08/27/24 04:04	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/27/24 04:04	16984-48-8	
Sulfate	**66.4**	mg/L	1.0	0.50	1		08/27/24 04:04	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92749173

Sample: YAT-YGWC-38 **Lab ID: 92749173019** Collected: 08/23/24 08:55 Received: 08/23/24 13:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**43.8**	mg/L	1.0	0.12	1	08/28/24 15:20	08/28/24 20:02	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/27/24 14:36	09/03/24 21:21	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/27/24 14:36	09/03/24 21:21	7440-38-2	
Barium	**0.016**	mg/L	0.0050	0.00047	1	08/27/24 14:36	09/03/24 21:21	7440-39-3	
Beryllium	**0.0015**	mg/L	0.00050	0.000094	1	08/27/24 14:36	09/03/24 21:21	7440-41-7	
Boron	**3.3**	mg/L	0.20	0.060	5	08/27/24 14:36	09/05/24 17:14	7440-42-8	
Cadmium	**0.00063**	mg/L	0.00050	0.00010	1	08/27/24 14:36	09/03/24 21:21	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/27/24 14:36	09/03/24 21:21	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/27/24 14:36	09/03/24 21:21	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/27/24 14:36	09/03/24 21:21	7439-92-1	
Lithium	**0.0052J**	mg/L	0.030	0.0016	1	08/27/24 14:36	09/03/24 21:21	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/27/24 14:36	09/03/24 21:21	7439-98-7	
Selenium	**0.045**	mg/L	0.0050	0.00096	1	08/27/24 14:36	09/03/24 21:21	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/27/24 14:36	09/03/24 21:21	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 12:30	09/05/24 16:26	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**418**	mg/L	25.0	25.0	1		08/29/24 10:57		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.0**	mg/L	1.0	0.60	1		08/27/24 04:18	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/27/24 04:18	16984-48-8	
Sulfate	**186**	mg/L	4.0	2.0	4		08/27/24 16:21	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92749173

Sample: YAT-YGWC-41 **Lab ID: 92749173020** Collected: 08/23/24 10:00 Received: 08/23/24 13:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**13.6**	mg/L	1.0	0.12	1	08/28/24 15:20	08/28/24 20:06	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/27/24 14:36	09/03/24 21:25	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/27/24 14:36	09/03/24 21:25	7440-38-2	
Barium	**0.019**	mg/L	0.0050	0.00047	1	08/27/24 14:36	09/03/24 21:25	7440-39-3	
Beryllium	**0.0011**	mg/L	0.00050	0.000094	1	08/27/24 14:36	09/03/24 21:25	7440-41-7	
Boron	**3.2**	mg/L	0.20	0.060	5	08/27/24 14:36	09/05/24 17:18	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/27/24 14:36	09/03/24 21:25	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/27/24 14:36	09/03/24 21:25	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/27/24 14:36	09/03/24 21:25	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/27/24 14:36	09/03/24 21:25	7439-92-1	
Lithium	**0.0020J**	mg/L	0.030	0.0016	1	08/27/24 14:36	09/03/24 21:25	7439-93-2	
Molybdenum	**0.0019J**	mg/L	0.010	0.00062	1	08/27/24 14:36	09/03/24 21:25	7439-98-7	
Selenium	**0.021**	mg/L	0.0050	0.00096	1	08/27/24 14:36	09/03/24 21:25	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/27/24 14:36	09/03/24 21:25	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 12:30	09/05/24 16:33	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**225**	mg/L	25.0	25.0	1		08/29/24 10:57		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.9**	mg/L	1.0	0.60	1		08/27/24 04:33	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/27/24 04:33	16984-48-8	
Sulfate	**97.8**	mg/L	2.0	1.0	2		08/27/24 16:36	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92749173

Sample: YAT-YGWC-42 **Lab ID: 92749173021** Collected: 08/22/24 11:23 Received: 08/23/24 13:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**64.4**	mg/L	1.0	0.12	1	08/28/24 15:20	08/28/24 20:09	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/27/24 14:36	09/03/24 21:29	7440-36-0	
Arsenic	**0.0021J**	mg/L	0.0050	0.00084	1	08/27/24 14:36	09/03/24 21:29	7440-38-2	B
Barium	**0.022**	mg/L	0.0050	0.00047	1	08/27/24 14:36	09/03/24 21:29	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/27/24 14:36	09/03/24 21:29	7440-41-7	
Boron	**12.4**	mg/L	0.40	0.12	10	08/27/24 14:36	09/04/24 16:01	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/27/24 14:36	09/03/24 21:29	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/27/24 14:36	09/03/24 21:29	7440-47-3	
Cobalt	**0.0017J**	mg/L	0.0050	0.00032	1	08/27/24 14:36	09/03/24 21:29	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/27/24 14:36	09/03/24 21:29	7439-92-1	
Lithium	**0.051**	mg/L	0.030	0.0016	1	08/27/24 14:36	09/03/24 21:29	7439-93-2	
Molybdenum	**0.00071J**	mg/L	0.010	0.00062	1	08/27/24 14:36	09/03/24 21:29	7439-98-7	
Selenium	**0.038**	mg/L	0.0050	0.00096	1	08/27/24 14:36	09/03/24 21:29	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/27/24 14:36	09/03/24 21:29	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 12:30	09/05/24 16:36	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**830**	mg/L	25.0	25.0	1		08/28/24 13:51		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.1**	mg/L	1.0	0.60	1		08/27/24 04:47	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/27/24 04:47	16984-48-8	
Sulfate	**432**	mg/L	10.0	5.0	10		08/27/24 16:50	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92749173

Sample: YAT-YGWC-43 **Lab ID: 92749173022** Collected: 08/22/24 14:06 Received: 08/23/24 13:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**14.8**	mg/L	1.0	0.12	1	08/28/24 15:20	08/28/24 20:13	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/27/24 14:36	09/03/24 21:32	7440-36-0	
Arsenic	**0.00095J**	mg/L	0.0050	0.00084	1	08/27/24 14:36	09/03/24 21:32	7440-38-2	B
Barium	**0.035**	mg/L	0.0050	0.00047	1	08/27/24 14:36	09/03/24 21:32	7440-39-3	
Beryllium	**0.00043J**	mg/L	0.00050	0.000094	1	08/27/24 14:36	09/03/24 21:32	7440-41-7	
Boron	**3.5**	mg/L	0.20	0.060	5	08/27/24 14:36	09/05/24 17:33	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/27/24 14:36	09/03/24 21:32	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/27/24 14:36	09/03/24 21:32	7440-47-3	
Cobalt	**0.00057J**	mg/L	0.0050	0.00032	1	08/27/24 14:36	09/03/24 21:32	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/27/24 14:36	09/03/24 21:32	7439-92-1	
Lithium	**0.015J**	mg/L	0.030	0.0016	1	08/27/24 14:36	09/03/24 21:32	7439-93-2	
Molybdenum	**0.0013J**	mg/L	0.010	0.00062	1	08/27/24 14:36	09/03/24 21:32	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/27/24 14:36	09/03/24 21:32	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/27/24 14:36	09/03/24 21:32	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 12:30	09/05/24 16:39	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**412**	mg/L	25.0	25.0	1		08/28/24 13:51		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.7**	mg/L	1.0	0.60	1		08/27/24 05:02	16887-00-6	
Fluoride	**0.050J**	mg/L	0.10	0.050	1		08/27/24 05:02	16984-48-8	
Sulfate	**181**	mg/L	4.0	2.0	4		08/27/24 17:04	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92749173

Sample: YAT-AMA-R6-FB-1 **Lab ID: 92749173023** Collected: 08/22/24 12:00 Received: 08/23/24 13:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.12	1	08/28/24 15:20	08/28/24 20:17	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/27/24 14:36	09/03/24 21:44	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/27/24 14:36	09/03/24 21:44	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	08/27/24 14:36	09/03/24 21:44	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/27/24 14:36	09/03/24 21:44	7440-41-7	
Boron	**0.035J**	mg/L	0.040	0.012	1	08/27/24 14:36	09/03/24 21:44	7440-42-8	B
Cadmium	ND	mg/L	0.00050	0.00010	1	08/27/24 14:36	09/03/24 21:44	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/27/24 14:36	09/03/24 21:44	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/27/24 14:36	09/03/24 21:44	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/27/24 14:36	09/03/24 21:44	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	08/27/24 14:36	09/03/24 21:44	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/27/24 14:36	09/03/24 21:44	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/27/24 14:36	09/03/24 21:44	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/27/24 14:36	09/03/24 21:44	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 12:30	09/05/24 16:41	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**64.0**	mg/L	25.0	25.0	1		08/28/24 13:51		
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		08/26/24 23:39	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/26/24 23:39	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		08/26/24 23:39	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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(704)875-9092

ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92749173

Sample: YAT-AMA-R6-FD-2 **Lab ID: 92749173024** Collected: 08/22/24 00:00 Received: 08/23/24 13:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**44.2**	mg/L	1.0	0.12	1	08/28/24 15:20	08/28/24 20:27	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/27/24 14:36	09/03/24 21:47	7440-36-0	
Arsenic	**0.00084J**	mg/L	0.0050	0.00084	1	08/27/24 14:36	09/03/24 21:47	7440-38-2	B
Barium	**0.016**	mg/L	0.0050	0.00047	1	08/27/24 14:36	09/03/24 21:47	7440-39-3	
Beryllium	**0.0016**	mg/L	0.00050	0.000094	1	08/27/24 14:36	09/03/24 21:47	7440-41-7	
Boron	**3.3**	mg/L	0.20	0.060	5	08/27/24 14:36	09/05/24 17:37	7440-42-8	
Cadmium	**0.00065**	mg/L	0.00050	0.00010	1	08/27/24 14:36	09/03/24 21:47	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/27/24 14:36	09/03/24 21:47	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/27/24 14:36	09/03/24 21:47	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/27/24 14:36	09/03/24 21:47	7439-92-1	
Lithium	**0.0053J**	mg/L	0.030	0.0016	1	08/27/24 14:36	09/03/24 21:47	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/27/24 14:36	09/03/24 21:47	7439-98-7	
Selenium	**0.046**	mg/L	0.0050	0.00096	1	08/27/24 14:36	09/03/24 21:47	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/27/24 14:36	09/03/24 21:47	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 12:30	09/05/24 16:44	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**381**	mg/L	25.0	25.0	1		08/28/24 13:52		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.9**	mg/L	1.0	0.60	1		08/27/24 05:16	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/27/24 05:16	16984-48-8	
Sulfate	**186**	mg/L	4.0	2.0	4		08/27/24 17:18	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92749173

QC Batch: 878069
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92749173001, 92749173002, 92749173003

METHOD BLANK: 4523018 Matrix: Water
Associated Lab Samples: 92749173001, 92749173002, 92749173003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	08/26/24 10:35	

LABORATORY CONTROL SAMPLE: 4523019

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	109	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4523020 4523021

Parameter	Units	92749074006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	21500 ug/L	1	1	23.8	22.3	230	73	75-125	7	20	M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92749173

QC Batch: 878070
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92749173004, 92749173005, 92749173006, 92749173007

METHOD BLANK: 4523022 Matrix: Water
Associated Lab Samples: 92749173004, 92749173005, 92749173006, 92749173007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	08/26/24 09:50	

LABORATORY CONTROL SAMPLE: 4523023

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	110	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4523024 4523025

Parameter	Units	92749173004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	111	1	1	114	108	362	-258	75-125	6	20	M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92749173

QC Batch: 878072
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92749173008

METHOD BLANK: 4523030 Matrix: Water
Associated Lab Samples: 92749173008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	08/26/24 17:15	

LABORATORY CONTROL SAMPLE: 4523031

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.2	118	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4523032 4523033

Parameter	Units	92748202037 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	158	1	1	166	165	720	662	75-125	0	20	M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92749173

QC Batch: 878921
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92749173009, 92749173010, 92749173011, 92749173012, 92749173013, 92749173014, 92749173015, 92749173016, 92749173017, 92749173018, 92749173019, 92749173020, 92749173021, 92749173022, 92749173023, 92749173024

METHOD BLANK: 4526909 Matrix: Water
Associated Lab Samples: 92749173009, 92749173010, 92749173011, 92749173012, 92749173013, 92749173014, 92749173015, 92749173016, 92749173017, 92749173018, 92749173019, 92749173020, 92749173021, 92749173022, 92749173023, 92749173024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	08/28/24 18:32	

LABORATORY CONTROL SAMPLE: 4526910

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4526911 4526912

Parameter	Units	92749173009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	14.4	1	1	15.0	15.2	64	84	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92749173

QC Batch: 877939
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92749173001, 92749173002, 92749173003

METHOD BLANK: 4522336 Matrix: Water
Associated Lab Samples: 92749173001, 92749173002, 92749173003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	08/29/24 19:38	
Arsenic	mg/L	ND	0.0050	0.00084	08/29/24 19:38	
Barium	mg/L	ND	0.0050	0.00047	08/29/24 19:38	
Beryllium	mg/L	ND	0.00050	0.000094	08/29/24 19:38	
Boron	mg/L	ND	0.040	0.012	08/29/24 19:38	
Cadmium	mg/L	ND	0.00050	0.00010	08/29/24 19:38	
Chromium	mg/L	ND	0.0050	0.0019	08/29/24 19:38	
Cobalt	mg/L	ND	0.0050	0.00032	08/29/24 19:38	
Lead	mg/L	ND	0.0010	0.00016	08/29/24 19:38	
Lithium	mg/L	ND	0.030	0.0016	08/29/24 19:38	
Molybdenum	mg/L	ND	0.010	0.00062	08/29/24 19:38	
Selenium	mg/L	ND	0.0050	0.00096	08/29/24 19:38	
Thallium	mg/L	ND	0.0010	0.00038	08/29/24 19:38	

LABORATORY CONTROL SAMPLE: 4522337

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	100	80-120	
Arsenic	mg/L	0.1	0.097	97	80-120	
Barium	mg/L	0.1	0.096	96	80-120	
Beryllium	mg/L	0.1	0.099	99	80-120	
Boron	mg/L	1	1.0	103	80-120	
Cadmium	mg/L	0.1	0.098	98	80-120	
Chromium	mg/L	0.1	0.099	99	80-120	
Cobalt	mg/L	0.1	0.098	98	80-120	
Lead	mg/L	0.1	0.099	99	80-120	
Lithium	mg/L	0.1	0.10	101	80-120	
Molybdenum	mg/L	0.1	0.10	101	80-120	
Selenium	mg/L	0.1	0.098	98	80-120	
Thallium	mg/L	0.1	0.099	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4522338 4522342

Parameter	Units	92749074010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	104	104	75-125	0	20	
Arsenic	mg/L	28.7 ug/L	0.1	0.1	0.13	0.13	100	97	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92749173

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4522338 4522342

Parameter	Units	92749074010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	93.3 ug/L	0.1	0.1	0.20	0.20	104	106	75-125	1	20	
Beryllium	mg/L	ND	0.1	0.1	0.096	0.093	96	92	75-125	4	20	
Boron	mg/L	148 ug/L	1	1	1.1	1.1	94	91	75-125	4	20	
Cadmium	mg/L	ND	0.1	0.1	0.099	0.099	99	99	75-125	0	20	
Chromium	mg/L	ND	0.1	0.1	0.098	0.098	97	97	75-125	0	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	97	97	75-125	0	20	
Lead	mg/L	ND	0.1	0.1	0.10	0.099	101	99	75-125	2	20	
Lithium	mg/L	ND	0.1	0.1	0.099	0.096	97	94	75-125	4	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	105	104	75-125	0	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.098	103	97	75-125	6	20	
Thallium	mg/L	ND	0.1	0.1	0.10	0.099	100	99	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92749173

QC Batch: 878079
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92749173004, 92749173005, 92749173006, 92749173007

METHOD BLANK: 4523054 Matrix: Water
Associated Lab Samples: 92749173004, 92749173005, 92749173006, 92749173007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	08/30/24 18:43	
Arsenic	mg/L	ND	0.0050	0.00084	08/30/24 18:43	
Barium	mg/L	ND	0.0050	0.00047	08/30/24 18:43	
Beryllium	mg/L	ND	0.00050	0.000094	08/30/24 18:43	
Boron	mg/L	ND	0.040	0.012	08/30/24 18:43	
Cadmium	mg/L	ND	0.00050	0.00010	08/30/24 18:43	
Chromium	mg/L	ND	0.0050	0.0019	08/30/24 18:43	
Cobalt	mg/L	ND	0.0050	0.00032	08/30/24 18:43	
Lead	mg/L	ND	0.0010	0.00016	08/30/24 18:43	
Lithium	mg/L	ND	0.030	0.0016	08/30/24 18:43	
Molybdenum	mg/L	ND	0.010	0.00062	08/30/24 18:43	
Selenium	mg/L	ND	0.0050	0.00096	08/30/24 18:43	
Thallium	mg/L	ND	0.0010	0.00038	08/30/24 18:43	

LABORATORY CONTROL SAMPLE: 4523055

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	104	80-120	
Arsenic	mg/L	0.1	0.098	98	80-120	
Barium	mg/L	0.1	0.10	101	80-120	
Beryllium	mg/L	0.1	0.10	102	80-120	
Boron	mg/L	1	0.97	97	80-120	
Cadmium	mg/L	0.1	0.10	101	80-120	
Chromium	mg/L	0.1	0.10	101	80-120	
Cobalt	mg/L	0.1	0.10	102	80-120	
Lead	mg/L	0.1	0.10	104	80-120	
Lithium	mg/L	0.1	0.10	103	80-120	
Molybdenum	mg/L	0.1	0.10	103	80-120	
Selenium	mg/L	0.1	0.098	98	80-120	
Thallium	mg/L	0.1	0.10	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4523056 4523057

Parameter	Units	92749173004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	0.0085	0.1	0.1	0.11	0.11	100	100	75-125	1	20	
Arsenic	mg/L	0.0037J	0.1	0.1	0.11	0.11	103	103	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92749173

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4523056 4523057

Parameter	Units	92749173004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.022	0.1	0.1	0.13	0.13	104	105	75-125	1	20	
Beryllium	mg/L	0.0011	0.1	0.1	0.095	0.095	94	94	75-125	0	20	
Boron	mg/L	7.6	1	1	9.0	9.0	137	133	75-125	0	20	M1
Cadmium	mg/L	0.00081	0.1	0.1	0.10	0.099	99	98	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	104	102	75-125	1	20	
Cobalt	mg/L	0.0037J	0.1	0.1	0.11	0.10	103	101	75-125	2	20	
Lead	mg/L	0.00020J	0.1	0.1	0.095	0.095	95	95	75-125	0	20	
Lithium	mg/L	0.017J	0.1	0.1	0.11	0.11	97	95	75-125	1	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	102	102	75-125	0	20	
Selenium	mg/L	0.12	0.1	0.1	0.22	0.22	105	104	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.093	0.094	93	93	75-125	1	20	

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92749173

QC Batch: 878587
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92749173008, 92749173009, 92749173010, 92749173011, 92749173012, 92749173013, 92749173014, 92749173015, 92749173016, 92749173017, 92749173018, 92749173019, 92749173020, 92749173021, 92749173022, 92749173023, 92749173024

METHOD BLANK: 4525184 Matrix: Water
Associated Lab Samples: 92749173008, 92749173009, 92749173010, 92749173011, 92749173012, 92749173013, 92749173014, 92749173015, 92749173016, 92749173017, 92749173018, 92749173019, 92749173020, 92749173021, 92749173022, 92749173023, 92749173024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	09/03/24 20:15	
Arsenic	mg/L	0.0018J	0.0050	0.00084	09/03/24 20:15	
Barium	mg/L	ND	0.0050	0.00047	09/03/24 20:15	
Beryllium	mg/L	ND	0.00050	0.000094	09/03/24 20:15	
Boron	mg/L	0.013J	0.040	0.012	09/03/24 20:15	
Cadmium	mg/L	ND	0.00050	0.00010	09/03/24 20:15	
Chromium	mg/L	ND	0.0050	0.0019	09/03/24 20:15	
Cobalt	mg/L	ND	0.0050	0.00032	09/03/24 20:15	
Lead	mg/L	ND	0.0010	0.00016	09/03/24 20:15	
Lithium	mg/L	ND	0.030	0.0016	09/03/24 20:15	
Molybdenum	mg/L	ND	0.010	0.00062	09/03/24 20:15	
Selenium	mg/L	ND	0.0050	0.00096	09/03/24 20:15	
Thallium	mg/L	ND	0.0010	0.00038	09/03/24 20:15	

LABORATORY CONTROL SAMPLE: 4525185

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	104	80-120	
Arsenic	mg/L	0.1	0.10	100	80-120	
Barium	mg/L	0.1	0.10	100	80-120	
Beryllium	mg/L	0.1	0.10	102	80-120	
Boron	mg/L	1	1.0	101	80-120	
Cadmium	mg/L	0.1	0.097	97	80-120	
Chromium	mg/L	0.1	0.096	96	80-120	
Cobalt	mg/L	0.1	0.094	94	80-120	
Lead	mg/L	0.1	0.10	102	80-120	
Lithium	mg/L	0.1	0.10	105	80-120	
Molybdenum	mg/L	0.1	0.10	100	80-120	
Selenium	mg/L	0.1	0.10	100	80-120	
Thallium	mg/L	0.1	0.10	100	80-120	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(704)875-9092

QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92749173

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4525186 4525187

Parameter	Units	92749173008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.099	101	99	75-125	2	20	
Arsenic	mg/L	0.0022J	0.1	0.1	0.10	0.099	98	97	75-125	2	20	
Barium	mg/L	0.031	0.1	0.1	0.13	0.13	100	97	75-125	3	20	
Beryllium	mg/L	0.00012J	0.1	0.1	0.089	0.087	89	87	75-125	2	20	
Boron	mg/L	9.6	1	1	11.3	10.5	166	86	75-125	7	20	M1
Cadmium	mg/L	0.00025J	0.1	0.1	0.097	0.095	97	95	75-125	2	20	
Chromium	mg/L	ND	0.1	0.1	0.097	0.095	97	95	75-125	3	20	
Cobalt	mg/L	0.035	0.1	0.1	0.13	0.13	96	93	75-125	2	20	
Lead	mg/L	ND	0.1	0.1	0.095	0.093	95	93	75-125	2	20	
Lithium	mg/L	0.048	0.1	0.1	0.14	0.14	94	89	75-125	4	20	
Molybdenum	mg/L	0.0047J	0.1	0.1	0.10	0.10	100	97	75-125	3	20	
Selenium	mg/L	0.028	0.1	0.1	0.13	0.13	101	98	75-125	2	20	
Thallium	mg/L	ND	0.1	0.1	0.093	0.092	93	92	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92749173

QC Batch: 880405 | Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A | Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92749173001, 92749173002, 92749173003, 92749173004, 92749173005

METHOD BLANK: 4534210 Matrix: Water
Associated Lab Samples: 92749173001, 92749173002, 92749173003, 92749173004, 92749173005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	09/05/24 13:17	

LABORATORY CONTROL SAMPLE: 4534211

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4534212 4534213

Parameter	Units	92748851023 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	0.00033	0.0025	0.0025	0.0028	0.0031	99	111	75-125	10	20	

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92749173

QC Batch: 880435
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92749173006, 92749173007, 92749173008, 92749173009, 92749173010, 92749173011, 92749173012, 92749173013, 92749173014, 92749173015, 92749173016, 92749173017, 92749173018, 92749173019, 92749173020, 92749173021, 92749173022, 92749173023, 92749173024

METHOD BLANK: 4534301 Matrix: Water
Associated Lab Samples: 92749173006, 92749173007, 92749173008, 92749173009, 92749173010, 92749173011, 92749173012, 92749173013, 92749173014, 92749173015, 92749173016, 92749173017, 92749173018, 92749173019, 92749173020, 92749173021, 92749173022, 92749173023, 92749173024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	09/05/24 15:32	

LABORATORY CONTROL SAMPLE: 4534302

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0023	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4534303 4534304

Parameter	Units	92749173006 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	0.0030	0.0031	121	122	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92749173

QC Batch: 878227 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92749173001, 92749173002, 92749173003, 92749173004, 92749173005, 92749173006

METHOD BLANK: 4523487 Matrix: Water
Associated Lab Samples: 92749173001, 92749173002, 92749173003, 92749173004, 92749173005, 92749173006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	08/26/24 13:05	

LABORATORY CONTROL SAMPLE: 4523488

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	422	106	80-120	

SAMPLE DUPLICATE: 4523489

Parameter	Units	92748202012 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	463	460	1	10	

SAMPLE DUPLICATE: 4523490

Parameter	Units	92749160001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	320	332	4	10	

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92749173

QC Batch: 878526
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92749173007

METHOD BLANK: 4524815 Matrix: Water
Associated Lab Samples: 92749173007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	08/27/24 16:40	

LABORATORY CONTROL SAMPLE: 4524816

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	404	101	80-120	

SAMPLE DUPLICATE: 4524817

Parameter	Units	92749074006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	126	122	3	10	

SAMPLE DUPLICATE: 4524818

Parameter	Units	92748851022 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	235	234	0	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92749173

QC Batch: 878881
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92749173008, 92749173010, 92749173012, 92749173014, 92749173015, 92749173016, 92749173017, 92749173018, 92749173021, 92749173022, 92749173023, 92749173024

METHOD BLANK: 4526609 Matrix: Water
Associated Lab Samples: 92749173008, 92749173010, 92749173012, 92749173014, 92749173015, 92749173016, 92749173017, 92749173018, 92749173021, 92749173022, 92749173023, 92749173024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	08/28/24 13:46	

LABORATORY CONTROL SAMPLE: 4526610

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	405	101	80-120	

SAMPLE DUPLICATE: 4526611

Parameter	Units	92749173008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	742	757	2	10	

SAMPLE DUPLICATE: 4526612

Parameter	Units	92749173023 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	64.0	70.0	9	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92749173

QC Batch: 879164
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92749173009, 92749173011, 92749173013, 92749173019, 92749173020

METHOD BLANK: 4527897 Matrix: Water
Associated Lab Samples: 92749173009, 92749173011, 92749173013, 92749173019, 92749173020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	08/29/24 10:56	

LABORATORY CONTROL SAMPLE: 4527898

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	424	106	80-120	

SAMPLE DUPLICATE: 4527899

Parameter	Units	92749173009 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	415	432	4	10	

SAMPLE DUPLICATE: 4527900

Parameter	Units	92749777003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	81.0	84.0	4	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92749173

QC Batch: 877660
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: 92749173001, 92749173002, 92749173003, 92749173004, 92749173005, 92749173006, 92749173007

METHOD BLANK: 4521132 Matrix: Water
Associated Lab Samples: 92749173001, 92749173002, 92749173003, 92749173004, 92749173005, 92749173006, 92749173007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	08/23/24 00:05	
Fluoride	mg/L	ND	0.10	0.050	08/23/24 00:05	
Sulfate	mg/L	ND	1.0	0.50	08/23/24 00:05	

LABORATORY CONTROL SAMPLE: 4521133

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	52.2	104	90-110	
Fluoride	mg/L	2.5	2.6	103	90-110	
Sulfate	mg/L	50	52.2	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4521134 4521135

Parameter	Units	92749079006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	2.4	50	50	53.6	54.4	102	104	90-110	1	10	
Fluoride	mg/L	0.11	2.5	2.5	2.7	2.7	103	104	90-110	1	10	
Sulfate	mg/L	3.6	50	50	55.1	55.9	103	105	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4521136 4521137

Parameter	Units	92749160003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	39.6	50	50	90.0	91.0	101	103	90-110	1	10	
Fluoride	mg/L	0.10	2.5	2.5	2.6	2.6	99	102	90-110	3	10	
Sulfate	mg/L	518	50	50	558	554	80	73	90-110	1	10	M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92749173

QC Batch: 878141
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: 92749173008, 92749173009, 92749173010, 92749173011, 92749173012

METHOD BLANK: 4523260 Matrix: Water
Associated Lab Samples: 92749173008, 92749173009, 92749173010, 92749173011, 92749173012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	08/25/24 22:36	
Fluoride	mg/L	ND	0.10	0.050	08/25/24 22:36	
Sulfate	mg/L	ND	1.0	0.50	08/25/24 22:36	

LABORATORY CONTROL SAMPLE: 4523261

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	54.4	109	90-110	
Fluoride	mg/L	2.5	2.7	109	90-110	
Sulfate	mg/L	50	54.7	109	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4523262 4523263

Parameter	Units	92748202041 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	15.4	50	50	65.7	66.8	101	103	90-110	2	10	
Fluoride	mg/L	0.14	2.5	2.5	2.6	2.6	97	100	90-110	3	10	
Sulfate	mg/L	45.6	50	50	95.4	96.6	100	102	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4523264 4523265

Parameter	Units	92748202051 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	394	50	50	432	434	77	80	90-110	0	10	M1
Fluoride	mg/L	0.81	2.5	2.5	3.3	3.4	100	103	90-110	2	10	
Sulfate	mg/L	268	50	50	308	309	79	82	90-110	0	10	M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92749173

QC Batch: 878325
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: 92749173013, 92749173014, 92749173015, 92749173016, 92749173017, 92749173018, 92749173019, 92749173020, 92749173021, 92749173022, 92749173023, 92749173024

METHOD BLANK: 4524069 Matrix: Water
Associated Lab Samples: 92749173013, 92749173014, 92749173015, 92749173016, 92749173017, 92749173018, 92749173019, 92749173020, 92749173021, 92749173022, 92749173023, 92749173024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	08/26/24 21:29	
Fluoride	mg/L	ND	0.10	0.050	08/26/24 21:29	
Sulfate	mg/L	ND	1.0	0.50	08/26/24 21:29	

LABORATORY CONTROL SAMPLE: 4524070

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.7	99	90-110	
Fluoride	mg/L	2.5	2.5	98	90-110	
Sulfate	mg/L	50	50.4	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4524071 4524072

Parameter	Units	92749173013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	10.4	50	50	62.7	63.9	105	107	90-110	2	10	
Fluoride	mg/L	0.085J	2.5	2.5	2.5	2.6	96	100	90-110	3	10	
Sulfate	mg/L	1130	50	50	1200	1240	129	206	90-110	3	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4524073 4524074

Parameter	Units	92749173023 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	51.2	52.3	102	105	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.6	101	103	90-110	2	10	
Sulfate	mg/L	ND	50	50	51.8	52.9	104	106	90-110	2	10	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92749173

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1g	Sample residue exceeded method SM 2540c reccomended 200mg
B	Analyte was detected in the associated method blank.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92749173

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92749173001	**YAT-YAMW-2**	EPA 3010A	878069	EPA 6010D	878095
92749173002	**YAT-PZ-55**	EPA 3010A	878069	EPA 6010D	878095
92749173003	**YAT-YGWC-23S**	EPA 3010A	878069	EPA 6010D	878095
92749173004	**YAT-PZ-37**	EPA 3010A	878070	EPA 6010D	878096
92749173005	**YAT-PZ-37D**	EPA 3010A	878070	EPA 6010D	878096
92749173006	**YAT-PZ-52D**	EPA 3010A	878070	EPA 6010D	878096
92749173007	**YAT-AMA-R6-EB-1**	EPA 3010A	878070	EPA 6010D	878096
92749173008	**YAT-YAMW-3**	EPA 3010A	878072	EPA 6010D	878098
92749173009	**YAT-YAMW-4**	EPA 3010A	878921	EPA 6010D	879014
92749173010	**YAT-PZ-51**	EPA 3010A	878921	EPA 6010D	879014
92749173011	**YAT-YAMW-5**	EPA 3010A	878921	EPA 6010D	879014
92749173012	**YAT-PZ-35**	EPA 3010A	878921	EPA 6010D	879014
92749173013	**YAT-YGWC-50**	EPA 3010A	878921	EPA 6010D	879014
92749173014	**YAT-YAMW-1**	EPA 3010A	878921	EPA 6010D	879014
92749173015	**YAT-AMA-R6-FD-1**	EPA 3010A	878921	EPA 6010D	879014
92749173016	**YAT-YGWC-36A**	EPA 3010A	878921	EPA 6010D	879014
92749173017	**YAT-YGWC-24SB**	EPA 3010A	878921	EPA 6010D	879014
92749173018	**YAT-YGWC-49**	EPA 3010A	878921	EPA 6010D	879014
92749173019	**YAT-YGWC-38**	EPA 3010A	878921	EPA 6010D	879014
92749173020	**YAT-YGWC-41**	EPA 3010A	878921	EPA 6010D	879014
92749173021	**YAT-YGWC-42**	EPA 3010A	878921	EPA 6010D	879014
92749173022	**YAT-YGWC-43**	EPA 3010A	878921	EPA 6010D	879014
92749173023	**YAT-AMA-R6-FB-1**	EPA 3010A	878921	EPA 6010D	879014
92749173024	**YAT-AMA-R6-FD-2**	EPA 3010A	878921	EPA 6010D	879014
92749173001	**YAT-YAMW-2**	EPA 3005A	877939	EPA 6020B	878011
92749173002	**YAT-PZ-55**	EPA 3005A	877939	EPA 6020B	878011
92749173003	**YAT-YGWC-23S**	EPA 3005A	877939	EPA 6020B	878011
92749173004	**YAT-PZ-37**	EPA 3005A	878079	EPA 6020B	878101
92749173005	**YAT-PZ-37D**	EPA 3005A	878079	EPA 6020B	878101
92749173006	**YAT-PZ-52D**	EPA 3005A	878079	EPA 6020B	878101
92749173007	**YAT-AMA-R6-EB-1**	EPA 3005A	878079	EPA 6020B	878101
92749173008	**YAT-YAMW-3**	EPA 3005A	878587	EPA 6020B	878673
92749173009	**YAT-YAMW-4**	EPA 3005A	878587	EPA 6020B	878673
92749173010	**YAT-PZ-51**	EPA 3005A	878587	EPA 6020B	878673
92749173011	**YAT-YAMW-5**	EPA 3005A	878587	EPA 6020B	878673
92749173012	**YAT-PZ-35**	EPA 3005A	878587	EPA 6020B	878673
92749173013	**YAT-YGWC-50**	EPA 3005A	878587	EPA 6020B	878673
92749173014	**YAT-YAMW-1**	EPA 3005A	878587	EPA 6020B	878673
92749173015	**YAT-AMA-R6-FD-1**	EPA 3005A	878587	EPA 6020B	878673
92749173016	**YAT-YGWC-36A**	EPA 3005A	878587	EPA 6020B	878673
92749173017	**YAT-YGWC-24SB**	EPA 3005A	878587	EPA 6020B	878673
92749173018	**YAT-YGWC-49**	EPA 3005A	878587	EPA 6020B	878673
92749173019	**YAT-YGWC-38**	EPA 3005A	878587	EPA 6020B	878673
92749173020	**YAT-YGWC-41**	EPA 3005A	878587	EPA 6020B	878673
92749173021	**YAT-YGWC-42**	EPA 3005A	878587	EPA 6020B	878673
92749173022	**YAT-YGWC-43**	EPA 3005A	878587	EPA 6020B	878673

Pace Analytical Services, LLC
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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92749173

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92749173023	**YAT-AMA-R6-FB-1**	EPA 3005A	878587	EPA 6020B	878673
92749173024	**YAT-AMA-R6-FD-2**	EPA 3005A	878587	EPA 6020B	878673
92749173001	**YAT-YAMW-2**	EPA 7470A	880405	EPA 7470A	880509
92749173002	**YAT-PZ-55**	EPA 7470A	880405	EPA 7470A	880509
92749173003	**YAT-YGWC-23S**	EPA 7470A	880405	EPA 7470A	880509
92749173004	**YAT-PZ-37**	EPA 7470A	880405	EPA 7470A	880509
92749173005	**YAT-PZ-37D**	EPA 7470A	880405	EPA 7470A	880509
92749173006	**YAT-PZ-52D**	EPA 7470A	880435	EPA 7470A	880577
92749173007	**YAT-AMA-R6-EB-1**	EPA 7470A	880435	EPA 7470A	880577
92749173008	**YAT-YAMW-3**	EPA 7470A	880435	EPA 7470A	880577
92749173009	**YAT-YAMW-4**	EPA 7470A	880435	EPA 7470A	880577
92749173010	**YAT-PZ-51**	EPA 7470A	880435	EPA 7470A	880577
92749173011	**YAT-YAMW-5**	EPA 7470A	880435	EPA 7470A	880577
92749173012	**YAT-PZ-35**	EPA 7470A	880435	EPA 7470A	880577
92749173013	**YAT-YGWC-50**	EPA 7470A	880435	EPA 7470A	880577
92749173014	**YAT-YAMW-1**	EPA 7470A	880435	EPA 7470A	880577
92749173015	**YAT-AMA-R6-FD-1**	EPA 7470A	880435	EPA 7470A	880577
92749173016	**YAT-YGWC-36A**	EPA 7470A	880435	EPA 7470A	880577
92749173017	**YAT-YGWC-24SB**	EPA 7470A	880435	EPA 7470A	880577
92749173018	**YAT-YGWC-49**	EPA 7470A	880435	EPA 7470A	880577
92749173019	**YAT-YGWC-38**	EPA 7470A	880435	EPA 7470A	880577
92749173020	**YAT-YGWC-41**	EPA 7470A	880435	EPA 7470A	880577
92749173021	**YAT-YGWC-42**	EPA 7470A	880435	EPA 7470A	880577
92749173022	**YAT-YGWC-43**	EPA 7470A	880435	EPA 7470A	880577
92749173023	**YAT-AMA-R6-FB-1**	EPA 7470A	880435	EPA 7470A	880577
92749173024	**YAT-AMA-R6-FD-2**	EPA 7470A	880435	EPA 7470A	880577
92749173001	**YAT-YAMW-2**	SM 2540C-2015	878227		
92749173002	**YAT-PZ-55**	SM 2540C-2015	878227		
92749173003	**YAT-YGWC-23S**	SM 2540C-2015	878227		
92749173004	**YAT-PZ-37**	SM 2540C-2015	878227		
92749173005	**YAT-PZ-37D**	SM 2540C-2015	878227		
92749173006	**YAT-PZ-52D**	SM 2540C-2015	878227		
92749173007	**YAT-AMA-R6-EB-1**	SM 2540C-2015	878526		
92749173008	**YAT-YAMW-3**	SM 2540C-2015	878881		
92749173009	**YAT-YAMW-4**	SM 2540C-2015	879164		
92749173010	**YAT-PZ-51**	SM 2540C-2015	878881		
92749173011	**YAT-YAMW-5**	SM 2540C-2015	879164		
92749173012	**YAT-PZ-35**	SM 2540C-2015	878881		
92749173013	**YAT-YGWC-50**	SM 2540C-2015	879164		
92749173014	**YAT-YAMW-1**	SM 2540C-2015	878881		
92749173015	**YAT-AMA-R6-FD-1**	SM 2540C-2015	878881		
92749173016	**YAT-YGWC-36A**	SM 2540C-2015	878881		
92749173017	**YAT-YGWC-24SB**	SM 2540C-2015	878881		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92749173

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92749173018	**YAT-YGWC-49**	SM 2540C-2015	878881		
92749173019	**YAT-YGWC-38**	SM 2540C-2015	879164		
92749173020	**YAT-YGWC-41**	SM 2540C-2015	879164		
92749173021	**YAT-YGWC-42**	SM 2540C-2015	878881		
92749173022	**YAT-YGWC-43**	SM 2540C-2015	878881		
92749173023	**YAT-AMA-R6-FB-1**	SM 2540C-2015	878881		
92749173024	**YAT-AMA-R6-FD-2**	SM 2540C-2015	878881		
92749173001	**YAT-YAMW-2**	EPA 300.0 Rev 2.1 1993	877660		
92749173002	**YAT-PZ-55**	EPA 300.0 Rev 2.1 1993	877660		
92749173003	**YAT-YGWC-23S**	EPA 300.0 Rev 2.1 1993	877660		
92749173004	**YAT-PZ-37**	EPA 300.0 Rev 2.1 1993	877660		
92749173005	**YAT-PZ-37D**	EPA 300.0 Rev 2.1 1993	877660		
92749173006	**YAT-PZ-52D**	EPA 300.0 Rev 2.1 1993	877660		
92749173007	**YAT-AMA-R6-EB-1**	EPA 300.0 Rev 2.1 1993	877660		
92749173008	**YAT-YAMW-3**	EPA 300.0 Rev 2.1 1993	878141		
92749173009	**YAT-YAMW-4**	EPA 300.0 Rev 2.1 1993	878141		
92749173010	**YAT-PZ-51**	EPA 300.0 Rev 2.1 1993	878141		
92749173011	**YAT-YAMW-5**	EPA 300.0 Rev 2.1 1993	878141		
92749173012	**YAT-PZ-35**	EPA 300.0 Rev 2.1 1993	878141		
92749173013	**YAT-YGWC-50**	EPA 300.0 Rev 2.1 1993	878325		
92749173014	**YAT-YAMW-1**	EPA 300.0 Rev 2.1 1993	878325		
92749173015	**YAT-AMA-R6-FD-1**	EPA 300.0 Rev 2.1 1993	878325		
92749173016	**YAT-YGWC-36A**	EPA 300.0 Rev 2.1 1993	878325		
92749173017	**YAT-YGWC-24SB**	EPA 300.0 Rev 2.1 1993	878325		
92749173018	**YAT-YGWC-49**	EPA 300.0 Rev 2.1 1993	878325		
92749173019	**YAT-YGWC-38**	EPA 300.0 Rev 2.1 1993	878325		
92749173020	**YAT-YGWC-41**	EPA 300.0 Rev 2.1 1993	878325		
92749173021	**YAT-YGWC-42**	EPA 300.0 Rev 2.1 1993	878325		
92749173022	**YAT-YGWC-43**	EPA 300.0 Rev 2.1 1993	878325		
92749173023	**YAT-AMA-R6-FB-1**	EPA 300.0 Rev 2.1 1993	878325		
92749173024	**YAT-AMA-R6-FD-2**	EPA 300.0 Rev 2.1 1993	878325		

Pace

DG#_Title: ENV-FRM-[illegible]

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# : 92749173

92749173

Courier: ☐ Commercial ☑ FedEx ☐ UPS ☐ USPS ☐ Client ☑ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: 8/22/24 COT

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☐ N/A

Thermometer: ☑ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 2.2 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): 2.2

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC? -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	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

WO# : 92749173

*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 #

PM: BV Due Date: 09/06/24
CLIENT: 92-GP-Yates

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		1	1		2		1																							
2		1	1		2		1																							
3		1	1		2		1																							
4		1	1		2		1																							
5		1	1		2		1																							
6		1	1		2		1																							
7		1	1		2		1																							
8		1	1		2		1																							
9		1	1		2		1																							
10		1	1		2		1																							
11		1	1		2		1																							
12		1	1		2		1																							

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 ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

WO#: 92749173

*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 #

PM: BV Due Date: 09/06/24
CLIENT: 92-GP-Yates

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)	BPIN	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		1	1		2		1																							
2		1	1		2		1																							
3		1	1		2		1																							
4		1	1		2		1																							
5		1	1		2		1																							
6		1	1		2		1																							
7		1	1		2		1																							
8		1	1		2		1																							
9		1	1		2		1																							
10																														
11																														
12																														

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	tosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', R6		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment	Preservation non-conformance identified for sample.
YAT-YAMW-2	WG	G	8/21/24	1655	—	—		5		X	X	X	X	See Remarks	
YAT-YAMW-3	WG	G						5		X	X	X	X	See Remarks	
YAT-YAMW-4	WG	G						5		X	X	X	X	See Remarks	
YAT-YAMW-5	WG	G						5		X	X	X	X	See Remarks	
YAT-PZ-37	WG	G						5		X	X	X	X	See Remarks	
YAT-PZ-35	WG	G						5		X	X	X	X	See Remarks	
YAT-PZ-37D	WG	G						5		X	X	X	X	See Remarks	
YAT-PZ-51	WG	G						5		X	X	X	X	See Remarks	
YAT-PZ-52D	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWC-50	WG	G						5		X	X	X	X	See Remarks	

Specify Container Size **: 3 3 2 1

**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

*** 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

Lab Use Only:
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg.

Collected By:
Printed Name: (Arcadis) - David Prouty
Signature: (Arcadis)

Additional Instructions from Pace®:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Arcadis	8/22/24 0925	Ryan Williams/Pace	8/22/24 0925	
Ryan Williams/Pace	8/22/24 1215	Chuck Hunter	8/22/24 1215	Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

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ENV-FRM-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-2024S2	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', R6		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [M] No

Analysis:

Specify Container Size **: 3 3 2 1

Identify Container Preservative Type***: 2 1 1 2

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment	Preservation non-conformance identified for sample
YAT-AMA-R6-EB-1	WG	G						5		X	X	X	X	See Remarks	
YAT-AMA-R6-FB-1	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWC-24SB	WG	G						5		X	X	X	X	See Remarks	
~~PZ-55~~ YAT-PZ-55	WG	G	8/21/24	1603	—	—		5		X	X	X	X	See Remarks	
PZ-54D	WG	G						5		X	X	X	X	See Remarks	
YAT-AMA-R6-FD-2	WG	G						5		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

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	8/22/24 0800	Kevin Pruett Arcadis	8/22/24 0800
Kevin Pruett	8/22/24 0925	Ryan William / Pace	8/22/24 0925
Ryan William / Pace	8/22/24 1215		8/22/24 1215
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

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Pace* Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

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Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP 3, A, B/B', R6		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

Specify Container Size **: 3 3 2 1

Identify Container Preservative Type***: 2 1 1 2

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment	Preservation non-conformance identified for sample
YAT-YGWC-23S	WG	G	8/21/24	1740	—	—		5		X	X	X	X	See Remarks	
YAT-YAMW-1	WG	G						5		X	X	X	X	See Remarks	
YAT-AMA-R6-FD-1	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWC-36A	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWC-49	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWC-38	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWC-24SB	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWC-41	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWC-42	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWC-43	WG	G						5		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.

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:
Arcadis	8/22/24 0730	Arcadis	8/22/24 0730
Pace	8/22/24 0925	Pace	8/22/24 0925
Pace	8/22/24 1215		8/22/24 1215

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other

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Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

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Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT AP-3, A, B/B', RE	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
Identify Container Preservative Type***: 2 1 1 2
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment	Preservation non-conformance identified for sample
YAT-YAMW-2	WG	G						5		X	X	X	X	See Remarks	
YAT-YAMW-3	WG	G						5		X	X	X	X	See Remarks	
YAT-YAMW-4	WG	G						5		X	X	X	X	See Remarks	
YAT-YAMW-5	WG	G						5		X	X	X	X	See Remarks	
YAT PZ-37	WG	G	8/21/24	1210	—	—		5		X	X	X	X	See Remarks	
YAT-PZ-35	WG	G						5		X	X	X	X	See Remarks	
YAT-PZ-37D	WG	G	8/21/24	1535	—	—		5		X	X	X	X	See Remarks	
YAT-PZ-51	WG	G						5		X	X	X	X	See Remarks	
YAT-PZ-52D	WG	G	8/21/24	1015	—	—		5		X	X	X	X	See Remarks	
YAT-YGWC-50	WG	G						5		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

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:	Tracking Number:
Perry Studebaker / Arcadis	8/22/24 0730	[illegible] Arcadis	8/22/24 0730	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In-Person [ ] Courier
Ryan Williams / Pace	8/22/24 0925	Ryan Williams / Pace	8/22/24 0925	[ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of
Ryan Williams / Pace	8/22/24 1215	[illegible]	8/22/24 1215	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	

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Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave, Suite 100, Huntersville, NC 28078

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Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT AP-3, A, B/B', R6	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected:	[ ] AK [ ] PT [ ] MT [ ] CT [x] ET	County / State origin of sample(s):	Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1

Identify Container Preservative Type***: 2 1 1 2

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment	Preservation non-conformance identified for sample:
YAT-AMA-R6-EB-1	WG	G	8/21/24	1840	—	—		5		X	X	X	X	See Remarks	
YAT-AMA-R6-FB-1	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWC-24SB	WG	G						5		X	X	X	X	See Remarks	
PZ-55	WG	G						5		X	X	X	X	See Remarks	
PZ-54D	WG	G						5		X	X	X	X	See Remarks	
YAT-AMA-R6-FD-2	WG	G						5		X	X	X	X	See Remarks	

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl, 7040A. Hg.

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:	Tracking Number:
Perry Studebaker / Arcadis	8/22/24 0730	Yael Rivera Arcadis	8/22/24 0730	
Relinquished by/Company: (Signature)	8/22/24 0925	Tyler Williams / Pace	8/22/24 0925	Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	8/22/24 1215	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

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Pace

DOC#_TITLE: ENVIRONMENTAL 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: Georgia Power

Project #:

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: 8/23/24 TSP

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 230 Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 1.9 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 1.9

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	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Qualtrax ID: 69614

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/E2 (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)	DG8V-4C mL VOA H3PO4 (N/A)	KP7U-50 ml Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VR-n/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																														
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

*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)	DG9T-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (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		1	1		2	1																							
2		1	1		2	1																							
3		1	1		2	1																							
4		1	1		2	1																							
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

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:	rasingle@southernco.com
		Cc E-Mail	Arcadis contacts
Customer Project #:	Task No. YAT-CCR ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AF-3, 6, 8/8', 16		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, NELAP, 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
Identify Container Preservative Type***: 2 1 1 2
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/9320	Sample Comment	Preservation non-conformance identified for sample:
YAT-YGWC-23S	WG	G						5		X	X	X	X	See Remarks	
YAT-YAMW-1	WG	G	8/22/24	1015	—	—		5		X	X	X	X	See Remarks	
YAT-AMA-R6-FD-1	WG	G	8/22/24	—	—	—		5		X	X	X	X	See Remarks	
YAT-YGWC-36A	WG	G	8/22/24	1505	—	—		5		X	X	X	X	See Remarks	
YAT-YGWC-49	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWC-38	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWC-24SB	WG	G	8/22/24	1240	—	—		5		X	X	X	X	See Remarks	
YAT-YGWC-41	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWC-42	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWC-43	WG	G						5		X	X	X	X	See Remarks	

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg

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)

	Date/Time		Date/Time	
Relinquished by/Company: (Signature) David Prouty	8/23/24 1000	Received by/Company: (Signature) Ryan Bair / Arcadis	8/23/24 1050	Tracking Number:
Relinquished by/Company: (Signature) Ryan Bair / Arcadis	8/23/24 1350	Received by/Company: (Signature)	8/23/24 1350	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

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Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	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-ASSM1-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', R6		Purchase Order # (if applicable):	CPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment	Preservation non-conformance identified for sample
YAT-YGWC-23S	WG	G						5		X	X	X	X	See Remarks	
YAT-YAMW-1	WG	G						5		X	X	X	X	See Remarks	
YAT-AMA-R6-FD-1	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWC-36A	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWC-49	WG	G	8/22/24	0935	—	—		5		X	X	X	X	See Remarks	
YAT-YGWC-38	WG	G	8/23/24	0855	—	—		5		X	X	X	X	See Remarks	
YAT-YGWC-24SB	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWC-41	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWC-42	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWC-43	WG	G						5		X	X	X	X	See Remarks	

Specify Container Size **: 3 3 2 1

Identify Container Preservative Type***: 2 1 1 2

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) Na2SO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only

Proj. Mgr: Bonnie Vang

Acct/Num / Client ID:

Table #:

Profile / Template: 16561

Prelog / Bottle Ord. ID:

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B, 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg

Collected By:
Printed Name: (Arcadis) 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:	Tracking Number:
Perry Bonn / Arcadis	8/23/24 1350		8/23/24 1350	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

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Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', R6		Purchase Order # (if applicable):	GPC62474-0002
		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

Identify Container Preservative Type***: 2 | 1 | 1 | 2

Analysis Requested

** Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only — Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Task #:; 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	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment	Preservation non-conformance identified for sample
YAT-YGWC-23S	WG	G						5		X	X	X	X	See Remarks	
YAT-YAMW-1	WG	G						5		X	X	X	X	See Remarks	
YAT-AMA-R6-FD-1	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWC-36A	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWC-49	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWC-38	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWC-24SB	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWC-41	WG	G	8/23/24	1000	—	—		5		X	X	X	X	See Remarks	
YAT-YGWC-42	WG	G	8/22/24	1123	—	—		5		X	X	X	X	See Remarks	
YAT-YGWC-43	WG	G	8/22/24	1406	—	—		5		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

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)

	Date/Time		Date/Time	
Relinquished by/Company: (Signature) Jessica Ware / Arcadis	8/23/24 1130	Received by/Company: (Signature) Pam Bass / Arcadis	8/23/24 1130	Tracking Number:
Relinquished by/Company: (Signature) Pam Bass / Arcadis	8/23/24 1350	Received by/Company: (Signature)	8/23/24 1350	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/

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Pace

DC#_Title: ENV-FRM-[illegible]_Sample Condition [illegible]

Effective Date: 05/24/2024

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample condition upon Receipt

Client Name: Georgia Power

Project #:

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: 5/23/24 TO

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☐ N/A

Thermometer: ☐ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 1.9 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 1.9

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:

Page 1 of 2

Dualtrax ID: 69614

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BFIN	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)	AGDU-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation Vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		1	1		2		1																							
2		1	1		2		1																							
3																														
4																														
5																														
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10																														
11																														
12																														

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

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:	tsingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/C, BG		Purchase Order # (if applicable):	GPCB2674-0002
		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

Identify Container Preservative Type***: 2 1 1 2

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	(RAD SW846 9315/8320	Sample Comment
YAT-AMA-R6-EB-1	WG	G						5		X	X	X	X	See Remarks
YAT-AMA-R6-FB-1	WG	G	8/22/24	1200	—	—		5		X	X	X	X	See Remarks
YAT-YGWC-24SB	WG	G						5		X	X	X	X	See Remarks
PZ-55	WG	G						5		X	X	X	X	See Remarks
PZ-54D	WG	G						5		X	X	X	X	See Remarks
YAT-AMA-R6-FD-2	WG	G						5		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

Collected By:
Printed Name: (Arcadis) Jessica Ware
Signature: (Arcadis) Jessica Ware

Additional Instructions from Pace®:
Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time	Received by/Company: (Signature)	Date/Time	Tracking Number:
Jessica Ware / Arcadis	8/23/24 1130	Pace / Arcadis	8/23/24 1130	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Bonnie Vang / Arcadis	8/23/24 1350		8/23/24 1350	
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/resources/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:	rasingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', B6		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

Data 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

Identify Container Preservative Type***: 2 1 1 2

** 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 (for Composite Start) Date	Collected (for Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/9320	Sample Comment
YAT-AMA-R6-EB-1	WG	G						5		X	X	X	X	See Remarks
YAT-AMA-R6-FB-1	WG	G						5		X	X	X	X	See Remarks
YAT-YGWC-24SB	WG	G						5		X	X	X	X	See Remarks
PZ-55	WG	G						5		X	X	X	X	See Remarks
PZ-54D	WG	G						5		X	X	X	X	See Remarks
YAT-AMA-R6-FD-2	WG	G	8/22/24	—	—	—		5		X	X	X	X	See Remarks

Lab Use Only: Proj. Mgr: Bonnie Vang; Acct Num / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non-conformances identified for sample:

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg

Collected By:
Printed Name (Arcadis): 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	8/23/24/1350		8/23/24 1350
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

Page: of

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ENV-FRM-CORO-0019_v01_082123

Pace

DC#_Title: ENV-FRM-[illegible]

Effective Date: 05/24/2024

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Georgia Power

Project #:

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: 8/23/24 [illegible]

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 236

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 1.9

Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 1.9

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	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Qualtrax ID: 69614

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden☐ Greenwood ☐ Huntersville ☐ Raleigh☐ Mechanicsville☐ Atlanta☐ Kernersville☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BPINU	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 NH4C (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		1	1		2		1																							
2		1	1		2		1																							
3		1	1		2		1																							
4		1	1		2		1																							
5		1	1		2		1																							
6		1	1		2		1																							
7																														
8																														
9																														
10																														
11																														
12																														

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain of Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

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-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, 4, 3/B', 8G		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET		County / State origin of Sample(s):	Georgia
Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other		Regulatory Program: (DW, RCRA, etc.) as applicable:	
		Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other	DW PWSID # or WW Permit # as applicable:
		Date Results Requested:	Field Filtered (if applicable): [ ] Yes [X] No
			Analysis:

Specify Container Size **: 3 3 2 1
Identify Container Preservative Type***: 2 1 1 2
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Bonnie Vang
Acct Num / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT). Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment	Preservation non conformance identified for sample
YAT-YAMW-2	WG	G			—	—		5		X	X	X	X	See Remarks	
YAT-YAMW-3	WG	G	8/22/24	0949	—	—		5		X	X	X	X	See Remarks	
YAT-YAMW-4	WG	G	8/23/24	0839	—	—		5		X	X	X	X	See Remarks	
YAT-YAMW-5	WG	G						5		X	X	X	X	See Remarks	
YAT-PZ-37	WG	G						5		X	X	X	X	See Remarks	
YAT-PZ-35	WG	G						5		X	X	X	X	See Remarks	
YAT-PZ-37D	WG	G						5		X	X	X	X	See Remarks	
YAT-PZ-51	WG	G	8/22/24	1606	—	—		5		X	X	X	X	See Remarks	
YAT-PZ-52D	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWC-50	WG	G						5		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

Collected By:
Printed Name: (Arcadis) Jessica Ware
Signature: (Arcadis) Jessica Ware

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature) Jessica Ware / Arcadis	Date/Time: 8/23/24 1130	Received by/Company: (Signature) Amy Strunk / Arcadis	Date/Time: 8/23/24 1130	Tracking Number:
Relinquished by/Company: (Signature) Amy Strunk / Arcadis	Date/Time: 8/23/24 1350	Received by/Company: (Signature) Chandler Hinds 8/23/24	Date/Time: 1350	Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

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ENV-FRM-CORQ-0019_v01_082123 ©

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

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Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd. Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rasingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', B6		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
Identify Container Preservative Type***: 2 1 1 2
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) NCl, (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 (OI), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix*	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/V Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment
YAT-YAMW-2	WG	G						5		X	X	X	X	See Remarks
YAT-YAMW-3	WG	G						5		X	X	X	X	See Remarks
YAT-YAMW-4	WG	G						5		X	X	X	X	See Remarks
YAT-YAMW-5	WG	G	8/23/24	0855	—	—		5		X	X	X	X	See Remarks
YAT-PZ-37	WG	G						5		X	X	X	X	See Remarks
YAT-PZ-35	WG	G	8/22/24	1240	—	—		5		X	X	X	X	See Remarks
YAT-PZ-37D	WG	G						5		X	X	X	X	See Remarks
YAT-PZ-51	WG	G						5		X	X	X	X	See Remarks
YAT-PZ-52D	WG	G						5		X	X	X	X	See Remarks
YAT-YGWC-50	WG	G						5		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.

Collected By:
Printed Name: (Arcadis) David Brady
Signature: (Arcadis)

Additional Instructions from Pace®:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp (°C) Corrected Temp. (°C)

Relinquished By/Company: (Signature)	Date/Time: 8/23/24 1000	Received By/Company: (Signature) Ryan Brown / Arcadis	Date/Time: 8/23/24 1050	Tracking Number:	
Relinquished by/Company: (Signature) Ryan Brown / Arcadis	Date/Time: 8/23/24 1350	Received by/Company: (Signature)	Date/Time: 8/23/24 1350	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/

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-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/S, K5		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
Identify Container Preservative Type***: 2 1 1 2
Analysis Requested

** Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) Terracore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) Na2SO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment
YAT-YAMW-2	WG	G						5		X	X	X	X	See Remarks
YAT-YAMW-3	WG	G						5		X	X	X	X	See Remarks
YAT-YAMW-4	WG	G						5		X	X	X	X	See Remarks
YAT-YAMW-5	WG	G						5		X	X	X	X	See Remarks
YAT-PZ-37	WG	G						5		X	X	X	X	See Remarks
YAT-PZ-35	WG	G						5		X	X	X	X	See Remarks
YAT-PZ-37D	WG	G						5		X	X	X	X	See Remarks
YAT-PZ-51	WG	G						5		X	X	X	X	See Remarks
YAT-PZ-52D	WG	G						5		X	X	X	X	See Remarks
YAT-YGWC-50	WG	G	8/23/24	0905	—	—		5		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

Collected By:
Printed Name: (Arcadis) KIM LAPSZYNSKI
Signature: (Arcadis)

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time: 8/23/24 1130	Received by/Company: (Signature) Arcadis	Date/Time: 8/23/24 1130	Tracking Number:
Relinquished by/Company: (Signature) Arcadis	Date/Time: 8/23/24 1350	Received by/Company: (Signature)	Date/Time: 8/23/24 1350	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	

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 Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

September 20, 2024

Trey Singleton
Southern Company
241 Ralp McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92749185

Dear Trey Singleton:

Enclosed are the analytical results for sample(s) received by the laboratory between August 22, 2024 and August 23, 2024. 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
Becky Steever, Arcadis
Jessica Ware, Arcadis
Albert Zumbuhl, Arcadis

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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(704)875-9092

CERTIFICATIONS

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92749185

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92749185

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92749185001	**YAT-YAMW-2**	Water	08/21/24 16:55	08/22/24 09:25
92749185002	**YAT-PZ-55**	Water	08/21/24 16:03	08/22/24 09:25
92749185003	**YAT-YGWC-23S**	Water	08/21/24 17:40	08/22/24 09:25
92749185004	**YAT-PZ-37**	Water	08/21/24 12:10	08/22/24 09:25
92749185005	**YAT-PZ-37D**	Water	08/21/24 15:35	08/22/24 09:25
92749185006	**YAT-PZ-52D**	Water	08/21/24 10:15	08/22/24 09:25
92749185007	**YAT-AMA-R6-EB-1**	Water	08/21/24 18:40	08/22/24 09:25
92749185008	**YAT-YAMW-3**	Water	08/22/24 09:49	08/23/24 13:50
92749185009	**YAT-YAMW-4**	Water	08/23/24 08:39	08/23/24 13:50
92749185010	**YAT-PZ-51**	Water	08/22/24 16:06	08/23/24 13:50
92749185011	**YAT-YAMW-5**	Water	08/23/24 08:55	08/23/24 13:50
92749185012	**YAT-PZ-35**	Water	08/22/24 12:40	08/23/24 13:50
92749185013	**YAT-YGWC-50**	Water	08/23/24 09:05	08/23/24 13:50
92749185014	**YAT-YAMW-1**	Water	08/22/24 10:15	08/23/24 13:50
92749185015	**YAT-AMA-R6-FD-1**	Water	08/22/24 00:00	08/23/24 13:50
92749185016	**YAT-YGWC-36A**	Water	08/22/24 15:05	08/23/24 13:50
92749185017	**YAT-YGWC-24SB**	Water	08/22/24 17:40	08/23/24 13:50
92749185018	**YAT-YGWC-49**	Water	08/22/24 09:35	08/23/24 13:50
92749185019	**YAT-YGWC-38**	Water	08/23/24 08:55	08/23/24 13:50
92749185020	**YAT-YGWC-41**	Water	08/23/24 10:00	08/23/24 13:50
92749185021	**YAT-YGWC-42**	Water	08/22/24 11:23	08/23/24 13:50
92749185022	**YAT-YGWC-43**	Water	08/22/24 14:06	08/23/24 13:50
92749185023	**YAT-AMA-R6-FB-1**	Water	08/22/24 12:00	08/23/24 13:50
92749185024	**YAT-AMA-R6-FD-2**	Water	08/22/24 00:00	08/23/24 13:50

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92749185

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92749185001	**YAT-YAMW-2**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92749185002	**YAT-PZ-55**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92749185003	**YAT-YGWC-23S**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92749185004	**YAT-PZ-37**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92749185005	**YAT-PZ-37D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92749185006	**YAT-PZ-52D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92749185007	**YAT-AMA-R6-EB-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92749185008	**YAT-YAMW-3**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92749185009	**YAT-YAMW-4**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92749185010	**YAT-PZ-51**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92749185011	**YAT-YAMW-5**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92749185012	**YAT-PZ-35**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92749185013	**YAT-YGWC-50**	EPA 9315	SLC	1	PASI-PA

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92749185

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92749185014	**YAT-YAMW-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92749185015	**YAT-AMA-R6-FD-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92749185016	**YAT-YGWC-36A**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92749185017	**YAT-YGWC-24SB**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92749185018	**YAT-YGWC-49**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92749185019	**YAT-YGWC-38**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92749185020	**YAT-YGWC-41**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92749185021	**YAT-YGWC-42**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92749185022	**YAT-YGWC-43**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92749185023	**YAT-AMA-R6-FB-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92749185024	**YAT-AMA-R6-FD-2**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92749185

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92749185001	**YAT-YAMW-2**					
EPA 9315	Radium-226	0.231 ± 0.145 (0.224) C:87% T:NA	pCi/L		09/16/24 12:02	
EPA 9320	Radium-228	0.234U ± 0.267 (0.556) C:83% T:89%	pCi/L		09/11/24 14:10	
Total Radium Calculation	Total Radium	0.465U ± 0.412 (0.780)	pCi/L		09/16/24 15:34	
92749185002	**YAT-PZ-55**					
EPA 9315	Radium-226	0.206U ± 0.243 (0.504) C:85% T:NA	pCi/L		09/16/24 08:01	
EPA 9320	Radium-228	-0.0486U ± 0.373 (0.876) C:77% T:85%	pCi/L		09/11/24 14:10	
Total Radium Calculation	Total Radium	0.206U ± 0.616 (1.38)	pCi/L		09/16/24 15:34	
92749185003	**YAT-YGWC-23S**					
EPA 9315	Radium-226	0.119U ± 0.129 (0.257) C:79% T:NA	pCi/L		09/16/24 08:32	
EPA 9320	Radium-228	0.166U ± 0.381 (0.845) C:78% T:87%	pCi/L		09/11/24 14:10	
Total Radium Calculation	Total Radium	0.285U ± 0.510 (1.10)	pCi/L		09/16/24 15:34	
92749185004	**YAT-PZ-37**					
EPA 9315	Radium-226	0.322 ± 0.170 (0.227) C:90% T:NA	pCi/L		09/16/24 08:32	
EPA 9320	Radium-228	0.441U ± 0.369 (0.744) C:91% T:83%	pCi/L		09/17/24 14:42	
Total Radium Calculation	Total Radium	0.763U ± 0.539 (0.971)	pCi/L		09/18/24 16:18	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92749185

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92749185005	**YAT-PZ-37D**					
EPA 9315	Radium-226	1.59 ± 0.393 (0.253) C:88% T:NA	pCi/L		09/16/24 08:33	
EPA 9320	Radium-228	1.60 ± 0.550 (0.770) C:85% T:82%	pCi/L		09/17/24 14:42	
Total Radium Calculation	Total Radium	3.19 ± 0.943 (1.02)	pCi/L		09/18/24 16:18	
92749185006	**YAT-PZ-52D**					
EPA 9315	Radium-226	0.163U ± 0.129 (0.227) C:91% T:NA	pCi/L		09/16/24 08:33	
EPA 9320	Radium-228	0.835 ± 0.434 (0.774) C:81% T:88%	pCi/L		09/17/24 14:42	
Total Radium Calculation	Total Radium	0.998U ± 0.563 (1.00)	pCi/L		09/18/24 16:18	
92749185007	**YAT-AMA-R6-EB-1**					
EPA 9315	Radium-226	0.00134U ± 0.0914 (0.247) C:97% T:NA	pCi/L		09/17/24 09:30	
EPA 9320	Radium-228	0.464U ± 0.348 (0.683) C:82% T:94%	pCi/L		09/17/24 14:42	
Total Radium Calculation	Total Radium	0.465U ± 0.439 (0.930)	pCi/L		09/18/24 16:18	
92749185008	**YAT-YAMW-3**					
EPA 9315	Radium-226	0.726 ± 0.256 (0.234) C:74% T:NA	pCi/L		09/19/24 08:38	
EPA 9320	Radium-228	0.748 ± 0.372 (0.636) C:84% T:89%	pCi/L		09/17/24 14:42	
Total Radium Calculation	Total Radium	1.47 ± 0.628 (0.870)	pCi/L		09/19/24 16:19	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92749185

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92749185009	**YAT-YAMW-4**					
EPA 9315	Radium-226	0.0657U ± 0.0901 (0.189) C:90% T:NA	pCi/L		09/19/24 08:40	
EPA 9320	Radium-228	0.379U ± 0.372 (0.765) C:81% T:88%	pCi/L		09/17/24 14:42	
Total Radium Calculation	Total Radium	0.445U ± 0.462 (0.954)	pCi/L		09/19/24 16:19	
92749185010	**YAT-PZ-51**					
EPA 9315	Radium-226	0.169U ± 0.112 (0.169) C:96% T:NA	pCi/L		09/19/24 08:40	
EPA 9320	Radium-228	0.797 ± 0.425 (0.747) C:79% T:84%	pCi/L		09/17/24 14:43	
Total Radium Calculation	Total Radium	0.966 ± 0.537 (0.916)	pCi/L		09/19/24 16:19	
92749185011	**YAT-YAMW-5**					
EPA 9315	Radium-226	0.215 ± 0.123 (0.163) C:95% T:NA	pCi/L		09/19/24 08:40	
EPA 9320	Radium-228	0.611U ± 0.377 (0.688) C:76% T:85%	pCi/L		09/17/24 14:43	
Total Radium Calculation	Total Radium	0.826U ± 0.500 (0.851)	pCi/L		09/19/24 16:19	
92749185012	**YAT-PZ-35**					
EPA 9315	Radium-226	0.250U ± 0.158 (0.255) C:89% T:NA	pCi/L		09/19/24 10:02	
EPA 9320	Radium-228	0.608U ± 0.359 (0.644) C:79% T:85%	pCi/L		09/17/24 14:43	
Total Radium Calculation	Total Radium	0.858U ± 0.517 (0.899)	pCi/L		09/19/24 16:19	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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SUMMARY OF DETECTION

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92749185

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92749185013	**YAT-YGWC-50**					
EPA 9315	Radium-226	0.124U ± 0.124 (0.242) C:97% T:NA	pCi/L		09/19/24 10:02	
EPA 9320	Radium-228	0.309U ± 0.311 (0.640) C:85% T:89%	pCi/L		09/17/24 14:43	
Total Radium Calculation	Total Radium	0.433U ± 0.435 (0.882)	pCi/L		09/19/24 16:19	
92749185014	**YAT-YAMW-1**					
EPA 9315	Radium-226	0.235 ± 0.143 (0.228) C:100% T:NA	pCi/L		09/19/24 10:03	
EPA 9320	Radium-228	0.151U ± 0.406 (0.906) C:80% T:84%	pCi/L		09/17/24 14:43	
Total Radium Calculation	Total Radium	0.386U ± 0.549 (1.13)	pCi/L		09/19/24 16:19	
92749185015	**YAT-AMA-R6-FD-1**					
EPA 9315	Radium-226	0.229 ± 0.134 (0.202) C:106% T:NA	pCi/L		09/19/24 10:03	
EPA 9320	Radium-228	0.819 ± 0.436 (0.780) C:84% T:87%	pCi/L		09/17/24 14:43	
Total Radium Calculation	Total Radium	1.05 ± 0.570 (0.982)	pCi/L		09/19/24 16:19	
92749185016	**YAT-YGWC-36A**					
EPA 9315	Radium-226	0.134U ± 0.112 (0.199) C:100% T:NA	pCi/L		09/19/24 09:58	
EPA 9320	Radium-228	0.802U ± 0.489 (0.931) C:82% T:85%	pCi/L		09/17/24 14:43	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92749185

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92749185016	**YAT-YGWC-36A**					
Total Radium Calculation	Total Radium	0.936U ± 0.601 (1.13)	pCi/L		09/19/24 16:19	
92749185017	**YAT-YGWC-24SB**					
EPA 9315	Radium-226	0.00843U ± 0.0956 (0.253) C:85% T:NA	pCi/L		09/19/24 09:58	
EPA 9320	Radium-228	0.0949U ± 0.309 (0.698) C:85% T:86%	pCi/L		09/17/24 14:43	
Total Radium Calculation	Total Radium	0.103U ± 0.405 (0.951)	pCi/L		09/19/24 16:19	
92749185018	**YAT-YGWC-49**					
EPA 9315	Radium-226	0.198U ± 0.131 (0.202) C:87% T:NA	pCi/L		09/19/24 09:58	
EPA 9320	Radium-228	0.654 ± 0.349 (0.603) C:84% T:87%	pCi/L		09/17/24 14:43	
Total Radium Calculation	Total Radium	0.852 ± 0.480 (0.805)	pCi/L		09/19/24 16:19	
92749185019	**YAT-YGWC-38**					
EPA 9315	Radium-226	0.0931U ± 0.103 (0.204) C:86% T:NA	pCi/L		09/19/24 09:58	
EPA 9320	Radium-228	0.127U ± 0.296 (0.661) C:80% T:87%	pCi/L		09/17/24 14:43	
Total Radium Calculation	Total Radium	0.220U ± 0.399 (0.865)	pCi/L		09/19/24 16:19	
92749185020	**YAT-YGWC-41**					
EPA 9315	Radium-226	0.136U ± 0.124 (0.231) C:89% T:NA	pCi/L		09/19/24 10:01	
EPA 9320	Radium-228	0.869 ± 0.470 (0.863) C:84% T:86%	pCi/L		09/17/24 14:44	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92749185

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92749185020	**YAT-YGWC-41**					
Total Radium Calculation	Total Radium	1.01U ± 0.594 (1.09)	pCi/L		09/19/24 16:18	
92749185021	**YAT-YGWC-42**					
EPA 9315	Radium-226	0.134U ± 0.108 (0.191) C:109% T:NA	pCi/L		09/19/24 10:01	
EPA 9320	Radium-228	-0.133U ± 0.384 (0.910) C:82% T:85%	pCi/L		09/17/24 14:44	
Total Radium Calculation	Total Radium	0.134U ± 0.492 (1.10)	pCi/L		09/19/24 16:18	
92749185022	**YAT-YGWC-43**					
EPA 9315	Radium-226	3.89 ± 0.747 (0.209) C:95% T:NA	pCi/L		09/19/24 10:01	
EPA 9320	Radium-228	0.561U ± 0.447 (0.896) C:80% T:85%	pCi/L		09/17/24 14:44	
Total Radium Calculation	Total Radium	4.45 ± 1.19 (1.11)	pCi/L		09/19/24 16:18	
92749185023	**YAT-AMA-R6-FB-1**					
EPA 9315	Radium-226	0.00276U ± 0.0939 (0.253) C:88% T:NA	pCi/L		09/19/24 11:39	
EPA 9320	Radium-228	0.116U ± 0.374 (0.841) C:82% T:91%	pCi/L		09/17/24 14:44	
Total Radium Calculation	Total Radium	0.119U ± 0.468 (1.09)	pCi/L		09/19/24 16:18	
92749185024	**YAT-AMA-R6-FD-2**					
EPA 9315	Radium-226	0.0955U ± 0.135 (0.292) C:76% T:NA	pCi/L		09/19/24 11:39	
EPA 9320	Radium-228	0.506U ± 0.403 (0.797) C:81% T:72%	pCi/L		09/17/24 11:11	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92749185

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92749185024	**YAT-AMA-R6-FD-2**					
Total Radium Calculation	Total Radium	0.602U ± 0.538 (1.09)	pCi/L		09/19/24 16:18	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92749185

Sample: YAT-YAMW-2 **Lab ID: 92749185001** Collected: 08/21/24 16:55 Received: 08/22/24 09:25 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	**0.231 ± 0.145 (0.224) C:87% T:NA**	pCi/L	09/16/24 12:02	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.234U ± 0.267 (0.556) C:83% T:89%**	pCi/L	09/11/24 14:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.465U ± 0.412 (0.780)**	pCi/L	09/16/24 15:34	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92749185

Sample: YAT-PZ-55 **Lab ID: 92749185002** Collected: 08/21/24 16:03 Received: 08/22/24 09:25 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	**0.206U ± 0.243 (0.504) C:85% T:NA**	pCi/L	09/16/24 08:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.0486U ± 0.373 (0.876) C:77% T:85%**	pCi/L	09/11/24 14:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.206U ± 0.616 (1.38)**	pCi/L	09/16/24 15:34	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92749185

Sample: YAT-YGWC-23S **Lab ID: 92749185003** Collected: 08/21/24 17:40 Received: 08/22/24 09:25 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	**0.119U ± 0.129 (0.257) C:79% T:NA**	pCi/L	09/16/24 08:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.166U ± 0.381 (0.845) C:78% T:87%**	pCi/L	09/11/24 14:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.285U ± 0.510 (1.10)**	pCi/L	09/16/24 15:34	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92749185

Sample: YAT-PZ-37 **Lab ID: 92749185004** Collected: 08/21/24 12:10 Received: 08/22/24 09:25 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	**0.322 ± 0.170 (0.227) C:90% T:NA**	pCi/L	09/16/24 08:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.441U ± 0.369 (0.744) C:91% T:83%**	pCi/L	09/17/24 14:42	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.763U ± 0.539 (0.971)**	pCi/L	09/18/24 16:18	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92749185

Sample: YAT-PZ-37D **Lab ID: 92749185005** Collected: 08/21/24 15:35 Received: 08/22/24 09:25 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	**1.59 ± 0.393 (0.253) C:88% T:NA**	pCi/L	09/16/24 08:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.60 ± 0.550 (0.770) C:85% T:82%**	pCi/L	09/17/24 14:42	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**3.19 ± 0.943 (1.02)**	pCi/L	09/18/24 16:18	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92749185

Sample: YAT-PZ-52D **Lab ID: 92749185006** Collected: 08/21/24 10:15 Received: 08/22/24 09:25 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	**0.163U ± 0.129 (0.227) C:91% T:NA**	pCi/L	09/16/24 08:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.835 ± 0.434 (0.774) C:81% T:88%**	pCi/L	09/17/24 14:42	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.998U ± 0.563 (1.00)**	pCi/L	09/18/24 16:18	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92749185

Sample: YAT-AMA-R6-EB-1 **Lab ID: 92749185007** Collected: 08/21/24 18:40 Received: 08/22/24 09:25 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	**0.00134U ± 0.0914 (0.247) C:97% T:NA**	pCi/L	09/17/24 09:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.464U ± 0.348 (0.683) C:82% T:94%**	pCi/L	09/17/24 14:42	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.465U ± 0.439 (0.930)**	pCi/L	09/18/24 16:18	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92749185

Sample: YAT-YAMW-3 **Lab ID: 92749185008** Collected: 08/22/24 09:49 Received: 08/23/24 13:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.726 ± 0.256 (0.234) C:74% T:NA**	pCi/L	09/19/24 08:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.748 ± 0.372 (0.636) C:84% T:89%**	pCi/L	09/17/24 14:42	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.47 ± 0.628 (0.870)**	pCi/L	09/19/24 16:19	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92749185

Sample: YAT-YAMW-4 **Lab ID: 92749185009** Collected: 08/23/24 08:39 Received: 08/23/24 13:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0657U ± 0.0901 (0.189) C:90% T:NA**	pCi/L	09/19/24 08:40	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.379U ± 0.372 (0.765) C:81% T:88%**	pCi/L	09/17/24 14:42	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.445U ± 0.462 (0.954)**	pCi/L	09/19/24 16:19	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92749185

Sample: YAT-PZ-51 **Lab ID: 92749185010** Collected: 08/22/24 16:06 Received: 08/23/24 13:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.169U ± 0.112 (0.169) C:96% T:NA**	pCi/L	09/19/24 08:40	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.797 ± 0.425 (0.747) C:79% T:84%**	pCi/L	09/17/24 14:43	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.966 ± 0.537 (0.916)**	pCi/L	09/19/24 16:19	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92749185

Sample: YAT-YAMW-5 **Lab ID: 92749185011** Collected: 08/23/24 08:55 Received: 08/23/24 13:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.215 ± 0.123 (0.163) C:95% T:NA**	pCi/L	09/19/24 08:40	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.611U ± 0.377 (0.688) C:76% T:85%**	pCi/L	09/17/24 14:43	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.826U ± 0.500 (0.851)**	pCi/L	09/19/24 16:19	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92749185

Sample: YAT-PZ-35 **Lab ID: 92749185012** Collected: 08/22/24 12:40 Received: 08/23/24 13:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.250U ± 0.158 (0.255) C:89% T:NA**	pCi/L	09/19/24 10:02	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.608U ± 0.359 (0.644) C:79% T:85%**	pCi/L	09/17/24 14:43	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.858U ± 0.517 (0.899)**	pCi/L	09/19/24 16:19	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92749185

Sample: YAT-YGWC-50 **Lab ID: 92749185013** Collected: 08/23/24 09:05 Received: 08/23/24 13:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.124U ± 0.124 (0.242) C:97% T:NA**	pCi/L	09/19/24 10:02	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.309U ± 0.311 (0.640) C:85% T:89%**	pCi/L	09/17/24 14:43	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.433U ± 0.435 (0.882)**	pCi/L	09/19/24 16:19	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92749185

Sample: YAT-YAMW-1 **Lab ID: 92749185014** Collected: 08/22/24 10:15 Received: 08/23/24 13:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.235 ± 0.143 (0.228) C:100% T:NA**	pCi/L	09/19/24 10:03	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.151U ± 0.406 (0.906) C:80% T:84%**	pCi/L	09/17/24 14:43	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.386U ± 0.549 (1.13)**	pCi/L	09/19/24 16:19	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92749185

Sample: YAT-AMA-R6-FD-1 **Lab ID: 92749185015** Collected: 08/22/24 00:00 Received: 08/23/24 13:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.229 ± 0.134 (0.202) C:106% T:NA**	pCi/L	09/19/24 10:03	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.819 ± 0.436 (0.780) C:84% T:87%**	pCi/L	09/17/24 14:43	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.05 ± 0.570 (0.982)**	pCi/L	09/19/24 16:19	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92749185

Sample: YAT-YGWC-36A **Lab ID: 92749185016** Collected: 08/22/24 15:05 Received: 08/23/24 13:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.134U ± 0.112 (0.199) C:100% T:NA**	pCi/L	09/19/24 09:58	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.802U ± 0.489 (0.931) C:82% T:85%**	pCi/L	09/17/24 14:43	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.936U ± 0.601 (1.13)**	pCi/L	09/19/24 16:19	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92749185

Sample: YAT-YGWC-24SB **Lab ID: 92749185017** Collected: 08/22/24 17:40 Received: 08/23/24 13:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.00843U ± 0.0956 (0.253) C:85% T:NA**	pCi/L	09/19/24 09:58	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.0949U ± 0.309 (0.698) C:85% T:86%**	pCi/L	09/17/24 14:43	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.103U ± 0.405 (0.951)**	pCi/L	09/19/24 16:19	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92749185

Sample: YAT-YGWC-49 **Lab ID: 92749185018** Collected: 08/22/24 09:35 Received: 08/23/24 13:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.198U ± 0.131 (0.202) C:87% T:NA**	pCi/L	09/19/24 09:58	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.654 ± 0.349 (0.603) C:84% T:87%**	pCi/L	09/17/24 14:43	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.852 ± 0.480 (0.805)**	pCi/L	09/19/24 16:19	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92749185

Sample: YAT-YGWC-38 **Lab ID: 92749185019** Collected: 08/23/24 08:55 Received: 08/23/24 13:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0931U ± 0.103 (0.204) C:86% T:NA**	pCi/L	09/19/24 09:58	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.127U ± 0.296 (0.661) C:80% T:87%**	pCi/L	09/17/24 14:43	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.220U ± 0.399 (0.865)**	pCi/L	09/19/24 16:19	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92749185

Sample: YAT-YGWC-41 **Lab ID: 92749185020** Collected: 08/23/24 10:00 Received: 08/23/24 13:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.136U ± 0.124 (0.231) C:89% T:NA**	pCi/L	09/19/24 10:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.869 ± 0.470 (0.863) C:84% T:86%**	pCi/L	09/17/24 14:44	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.01U ± 0.594 (1.09)**	pCi/L	09/19/24 16:18	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92749185

Sample: YAT-YGWC-42 **Lab ID: 92749185021** Collected: 08/22/24 11:23 Received: 08/23/24 13:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.134U ± 0.108 (0.191) C:109% T:NA**	pCi/L	09/19/24 10:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.133U ± 0.384 (0.910) C:82% T:85%**	pCi/L	09/17/24 14:44	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.134U ± 0.492 (1.10)**	pCi/L	09/19/24 16:18	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92749185

Sample: YAT-YGWC-43 **Lab ID: 92749185022** Collected: 08/22/24 14:06 Received: 08/23/24 13:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**3.89 ± 0.747 (0.209) C:95% T:NA**	pCi/L	09/19/24 10:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.561U ± 0.447 (0.896) C:80% T:85%**	pCi/L	09/17/24 14:44	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**4.45 ± 1.19 (1.11)**	pCi/L	09/19/24 16:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92749185

Sample: YAT-AMA-R6-FB-1 **Lab ID: 92749185023** Collected: 08/22/24 12:00 Received: 08/23/24 13:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.00276U ± 0.0939 (0.253) C:88% T:NA**	pCi/L	09/19/24 11:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.116U ± 0.374 (0.841) C:82% T:91%**	pCi/L	09/17/24 14:44	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.119U ± 0.468 (1.09)**	pCi/L	09/19/24 16:18	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92749185

Sample: YAT-AMA-R6-FD-2 **Lab ID: 92749185024** Collected: 08/22/24 00:00 Received: 08/23/24 13:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0955U ± 0.135 (0.292) C:76% T:NA**	pCi/L	09/19/24 11:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.506U ± 0.403 (0.797) C:81% T:72%**	pCi/L	09/17/24 11:11	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.602U ± 0.538 (1.09)**	pCi/L	09/19/24 16:18	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92749185

QC Batch: 694725 Analysis Method: EPA 9315
QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92749185020, 92749185021, 92749185022, 92749185023, 92749185024

METHOD BLANK: 3383135 Matrix: Water
Associated Lab Samples: 92749185020, 92749185021, 92749185022, 92749185023, 92749185024

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0558 ± 0.0989 (0.223) C:91% T:NA	pCi/L	09/19/24 10:01	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92749185

QC Batch: 693376
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92749185008, 92749185009, 92749185010, 92749185011, 92749185012, 92749185013, 92749185014, 92749185015, 92749185016, 92749185017, 92749185018, 92749185019

METHOD BLANK: 3376233
Matrix: Water
Associated Lab Samples: 92749185008, 92749185009, 92749185010, 92749185011, 92749185012, 92749185013, 92749185014, 92749185015, 92749185016, 92749185017, 92749185018, 92749185019

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0354 ± 0.0920 (0.223) C:89% T:NA	pCi/L	09/19/24 08:23	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92749185

QC Batch:	692082	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92749185001, 92749185002, 92749185003, 92749185004, 92749185005, 92749185006

METHOD BLANK: 3370048 Matrix: Water

Associated Lab Samples: 92749185001, 92749185002, 92749185003, 92749185004, 92749185005, 92749185006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0815 ± 0.144 (0.327) C:92% T:NA	pCi/L	09/16/24 08:41	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92749185

QC Batch: 695085
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92749185024

METHOD BLANK: 3384817 Matrix: Water
Associated Lab Samples: 92749185024

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0127 ± 0.268 (0.625) C:84% T:86%	pCi/L	09/17/24 11:10	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92749185

QC Batch: 692500
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92749185004, 92749185005, 92749185006, 92749185007, 92749185008, 92749185009, 92749185010, 92749185011, 92749185012, 92749185013, 92749185014, 92749185015, 92749185016, 92749185017, 92749185018, 92749185019, 92749185020, 92749185021, 92749185022, 92749185023

METHOD BLANK: 3372182
Matrix: Water
Associated Lab Samples: 92749185004, 92749185005, 92749185006, 92749185007, 92749185008, 92749185009, 92749185010, 92749185011, 92749185012, 92749185013, 92749185014, 92749185015, 92749185016, 92749185017, 92749185018, 92749185019, 92749185020, 92749185021, 92749185022, 92749185023

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.299 ± 0.317 (0.660) C:94% T:88%	pCi/L	09/17/24 14:42	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92749185

QC Batch: 691962
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92749185001, 92749185002, 92749185003

METHOD BLANK: 3369429 Matrix: Water
Associated Lab Samples: 92749185001, 92749185002, 92749185003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.325 ± 0.297 (0.601) C:85% T:93%	pCi/L	09/11/24 14:23	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92749185

QC Batch: 693373
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92749185007

METHOD BLANK: 3376225 Matrix: Water
Associated Lab Samples: 92749185007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0336 ± 0.137 (0.338) C:89% T:NA	pCi/L	09/17/24 08:12	

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QUALIFIERS

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92749185

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92749185

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92749185001	**YAT-YAMW-2**	EPA 9315	692082		
92749185002	**YAT-PZ-55**	EPA 9315	692082		
92749185003	**YAT-YGWC-23S**	EPA 9315	692082		
92749185004	**YAT-PZ-37**	EPA 9315	692082		
92749185005	**YAT-PZ-37D**	EPA 9315	692082		
92749185006	**YAT-PZ-52D**	EPA 9315	692082		
92749185007	**YAT-AMA-R6-EB-1**	EPA 9315	693373		
92749185008	**YAT-YAMW-3**	EPA 9315	693376		
92749185009	**YAT-YAMW-4**	EPA 9315	693376		
92749185010	**YAT-PZ-51**	EPA 9315	693376		
92749185011	**YAT-YAMW-5**	EPA 9315	693376		
92749185012	**YAT-PZ-35**	EPA 9315	693376		
92749185013	**YAT-YGWC-50**	EPA 9315	693376		
92749185014	**YAT-YAMW-1**	EPA 9315	693376		
92749185015	**YAT-AMA-R6-FD-1**	EPA 9315	693376		
92749185016	**YAT-YGWC-36A**	EPA 9315	693376		
92749185017	**YAT-YGWC-24SB**	EPA 9315	693376		
92749185018	**YAT-YGWC-49**	EPA 9315	693376		
92749185019	**YAT-YGWC-38**	EPA 9315	693376		
92749185020	**YAT-YGWC-41**	EPA 9315	694725		
92749185021	**YAT-YGWC-42**	EPA 9315	694725		
92749185022	**YAT-YGWC-43**	EPA 9315	694725		
92749185023	**YAT-AMA-R6-FB-1**	EPA 9315	694725		
92749185024	**YAT-AMA-R6-FD-2**	EPA 9315	694725		
92749185001	**YAT-YAMW-2**	EPA 9320	691962		
92749185002	**YAT-PZ-55**	EPA 9320	691962		
92749185003	**YAT-YGWC-23S**	EPA 9320	691962		
92749185004	**YAT-PZ-37**	EPA 9320	692500		
92749185005	**YAT-PZ-37D**	EPA 9320	692500		
92749185006	**YAT-PZ-52D**	EPA 9320	692500		
92749185007	**YAT-AMA-R6-EB-1**	EPA 9320	692500		
92749185008	**YAT-YAMW-3**	EPA 9320	692500		
92749185009	**YAT-YAMW-4**	EPA 9320	692500		
92749185010	**YAT-PZ-51**	EPA 9320	692500		
92749185011	**YAT-YAMW-5**	EPA 9320	692500		
92749185012	**YAT-PZ-35**	EPA 9320	692500		
92749185013	**YAT-YGWC-50**	EPA 9320	692500		
92749185014	**YAT-YAMW-1**	EPA 9320	692500		
92749185015	**YAT-AMA-R6-FD-1**	EPA 9320	692500		
92749185016	**YAT-YGWC-36A**	EPA 9320	692500		
92749185017	**YAT-YGWC-24SB**	EPA 9320	692500		
92749185018	**YAT-YGWC-49**	EPA 9320	692500		
92749185019	**YAT-YGWC-38**	EPA 9320	692500		
92749185020	**YAT-YGWC-41**	EPA 9320	692500		
92749185021	**YAT-YGWC-42**	EPA 9320	692500		
92749185022	**YAT-YGWC-43**	EPA 9320	692500		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT AP-3, A, B/B', R6- RADs
Pace Project No.: 92749185

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92749185023	**YAT-AMA-R6-FB-1**	EPA 9320	692500		
92749185024	**YAT-AMA-R6-FD-2**	EPA 9320	695085		
92749185001	**YAT-YAMW-2**	Total Radium Calculation	696366		
92749185002	**YAT-PZ-55**	Total Radium Calculation	696366		
92749185003	**YAT-YGWC-23S**	Total Radium Calculation	696366		
92749185004	**YAT-PZ-37**	Total Radium Calculation	697006		
92749185005	**YAT-PZ-37D**	Total Radium Calculation	697006		
92749185006	**YAT-PZ-52D**	Total Radium Calculation	697006		
92749185007	**YAT-AMA-R6-EB-1**	Total Radium Calculation	697006		
92749185008	**YAT-YAMW-3**	Total Radium Calculation	697334		
92749185009	**YAT-YAMW-4**	Total Radium Calculation	697334		
92749185010	**YAT-PZ-51**	Total Radium Calculation	697334		
92749185011	**YAT-YAMW-5**	Total Radium Calculation	697334		
92749185012	**YAT-PZ-35**	Total Radium Calculation	697334		
92749185013	**YAT-YGWC-50**	Total Radium Calculation	697334		
92749185014	**YAT-YAMW-1**	Total Radium Calculation	697334		
92749185015	**YAT-AMA-R6-FD-1**	Total Radium Calculation	697334		
92749185016	**YAT-YGWC-36A**	Total Radium Calculation	697334		
92749185017	**YAT-YGWC-24SB**	Total Radium Calculation	697334		
92749185018	**YAT-YGWC-49**	Total Radium Calculation	697334		
92749185019	**YAT-YGWC-38**	Total Radium Calculation	697334		
92749185020	**YAT-YGWC-41**	Total Radium Calculation	697330		
92749185021	**YAT-YGWC-42**	Total Radium Calculation	697330		
92749185022	**YAT-YGWC-43**	Total Radium Calculation	697330		
92749185023	**YAT-AMA-R6-FB-1**	Total Radium Calculation	697330		
92749185024	**YAT-AMA-R6-FD-2**	Total Radium Calculation	697330		

Pace

DOC#_Title: ENV-FRM-[illegible]_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# : 92749185

92749185

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: 8/22/24 CM

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☐ N/A

Thermometer: ☑ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 2.2 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): 2.2

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC? -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	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____

WO#: 92749185

*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 #

PM: BV Due Date: 09/13/24
CLIENT: 92-GP-Yates

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		1	1		2		1																							
2		1	1		2		1																							
3		1	1		2		1																							
4		1	1		2		1																							
5		1	1		2		1																							
6		1	1		2		1																							
7		1	1		2		1																							
8		1	1		2		1																							
9		1	1		2		1																							
10		1	1		2		1																							
11		1	1		2		1																							
12		1	1		2		1																							

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#: 92749185

*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 #

PM: BV Due Date: 09/13/24
CLIENT: 92-GP-Yates

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 Aceiate & 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		1	1		2		1																							
2		1	1		2		1																							
3		1	1		2		1																							
4		1	1		2		1																							
5		1	1		2		1																							
6		1	1		2		1																							
7		1	1		2		1																							
8		1	1		2		1																							
9		1	1		2		1																							
10																														
11																														
12																														

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields.

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

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-2024S2	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT AP-3, A, B/B', R6	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1

Identify Container Preservative Type***: 2 1 1 2

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; Acctnum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment	Preservation non-conformance identified for sample
YAT-YAMW-2	WG	G	8/21/24	1655	—	—		5		X	X	X	X	See Remarks	
YAT-YAMW-3	WG	G						5		X	X	X	X	See Remarks	
YAT-YAMW-4	WG	G						5		X	X	X	X	See Remarks	
YAT-YAMW-5	WG	G						5		X	X	X	X	See Remarks	
YAT-PZ-37	WG	G						5		X	X	X	X	See Remarks	
YAT-PZ-35	WG	G						5		X	X	X	X	See Remarks	
YAT-PZ-37D	WG	G						5		X	X	X	X	See Remarks	
YAT-PZ-51	WG	G						5		X	X	X	X	See Remarks	
YAT-PZ-52D	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWC-50	WG	G						5		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.

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) David Prouty / Arcadis	Date/Time: 8/22/24 0925	Received by/Company: (Signature) Ryan Williams / Pace	Date/Time: 8/22/24 0925	Tracking Number:
Relinquished by/Company: (Signature) Ryan Williams / Pace	Date/Time: 8/22/24 1215	Received by/Company: (Signature)	Date/Time: 8/22/24 1215	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 ©

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

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Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', R6		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET		County / State origin of sample(s):	Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

Specify Container Size **: 3 3 2 1

Identify Container Preservative Type***: 2 1 1 2

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers: Plastic	Number & Type of Containers: Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment	Preservation non-conformance identified for sample.
YAT-AMA R6-EB-1	WG	G						5		X	X	X	X	See Remarks	
YAT-AMA-R6-FB-1	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWC-24SB	WG	G						5		X	X	X	X	See Remarks	
~~PZ-55~~ YAT-PZ-55	WG	G	8/21/24	1603	—	—		5		X	X	X	X	See Remarks	
PZ-54D	WG	G						5		X	X	X	X	See Remarks	
YAT-AMA-R6-FD-2	WG	G						5		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

Collected By:
Printed Name: (Arcadis) Jessica Ware
Signature: (Arcadis) Jessica Ware

Additional Instructions from Pace®:

If Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Jessica Ware / Arcadis	8/22/24 0800	[illegible] Arcadis	8/22/24 0800	
[illegible]	8/22/24 0925	Ryan Williams / Pace	8/22/24 0925	Delivered by: [ ] In-Person [ ] Courier
Ryan Williams / Pace	8/22/24 1215	[illegible]	8/22/24 1215	[ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v01_082123 ©

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

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Scan QR Code for instructions

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Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP 3, A, B/B', R6		Purchase Order # (if applicable):	GPCB2474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

Specify Container Size **: 3 3 2 1

Identify Container Preservative Type***: 2 1 1 2

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only

Proj. Mgr: Bonnie Vang

AcctNum / Client ID:

Table #:

Profile / Template: 16561

Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment	Preservation non-conformance identified for sample
YAT-YGWC-23S	WG	G	8/21/24	1740	—	—		5		X	X	X	X	See Remarks	
YAT-YAMW-1	WG	G						5		X	X	X	X	See Remarks	
YAT-AMA-R6-FD-1	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWC-36A	WG	G						5		X	X	X	X	See Remarks	
YA1-YGWC-49	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWC-38	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWC-24SB	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWC-41	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWC-42	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWC-43	WG	G						5		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.

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)	Arcadis	Date/Time: 8/22/24 0730	Received by/Company: (Signature)	Arcadis	Date/Time: 8/22/24 0730
Relinquished by/Company: (Signature)		Date/Time: 8/22/24 0925	Received by/Company: (Signature)	Pace	Date/Time: 8/22/24 0925
Relinquished by/Company: (Signature)	Pace	Date/Time: 8/22/24 1245	Received by/Company: (Signature)		Date/Time: 8/22/24 1245
Relinquished by/Company: (Signature)		Date/Time:	Received by/Company: (Signature)		Date/Time:

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

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Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

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Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205 346 3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT AP-3, A, B/B', RE	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

Identify Container Preservative Type***: 2 1 1 2

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment	Preservation non-conformance identified for sample
YAT-YAMW-2	WG	G						5		X	X	X	X	See Remarks	
YAT-YAMW-3	WG	G						5		X	X	X	X	See Remarks	
YAT-YAMW-4	WG	G						5		X	X	X	X	See Remarks	
YAT-YAMW-5	WG	G						5		X	X	X	X	See Remarks	
YAT PZ-37	WG	G	8/21/24	1210	—	—		5		X	X	X	X	See Remarks	
YAT-PZ-35	WG	G						5		X	X	X	X	See Remarks	
YAT-PZ-37D	WG	G	8/21/24	1535	—	—		5		X	X	X	X	See Remarks	
YAT-PZ-51	WG	G						5		X	X	X	X	See Remarks	
YAT-PZ-52D	WG	G	8/21/24	1015	—	—		5		X	X	X	X	See Remarks	
YAT-YGWC-50	WG	G						5		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

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:	Tracking Number:
Perry Studebaker / Arcadis	8/22/24 0730	Ken Olmsted Arcadis	8/22/24 0730	
Ryan Williams / Pace	8/22/24 0925	Ryan Williams / Pace	8/22/24 0926	Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other
Ryan Williams / Pace	8/22/24 1215	Chris Hinds	8/22/24 1215	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

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Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

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Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT AP-3, A, B/B', R6	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected:	[ ] AK [ ] PT [ ] MT [ ] CT [X] ET	County / State origin of sample(s):	Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

Specify Container Size **: 3 3 2 1

Identify Container Preservative Type***: 2 1 1 2

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only — Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/9320	Sample Comment	Preservation non-conformance identified for sample
YAT-AMA-R6-EB-1	WG	G	8/21/24	1840	—	—		5		X	X	X	X	See Remarks	
YAT-AMA-R6-FB-1	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWC-24SB	WG	G						5		X	X	X	X	See Remarks	
PZ-55	WG	G						5		X	X	X	X	See Remarks	
PZ-54D	WG	G						5		X	X	X	X	See Remarks	
YAT-AMA-R6-FD-2	WG	G						5		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.

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	8/22/24 0730	[illegible] Arcadis	8/22/24 0730
[illegible]	8/22/24 0925	Ryan Williams / Pace	8/22/24 0925
		[illegible]	8/22/24 1215

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

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Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave., Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

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Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205 346 3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-207457	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, 8/8", 86		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Specify Container Size **: 3 3 2 1

Identify Container Preservative Type***: 2 1 1 2

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Time Zone Collected:	[ ] AK	[ ] PT	[ ] MT	[ ] CT	[X] ET	County / State origin of sample(s):	Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other:	Regulatory Program: (DW, RCRA, etc.) as applicable:	Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other:	DW PWSID # or WW Permit # as applicable:
		Date Results Requested:	Field Filtered (if applicable): [ ] Yes [X] No
			Analysis:

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), Cauk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment
YAT-YAMW-2	WG	G						5		X	X	X	X	See Remarks
YAT-YAMW-3	WG	G	8/22/24	0949	—	—		5		X	X	X	X	See Remarks
YAT-YAMW-4	WG	G	8/23/24	0839	—	—		5		X	X	X	X	See Remarks
YAT-YAMW-5	WG	G						5		X	X	X	X	See Remarks
YAT-PZ-37	WG	G						5		X	X	X	X	See Remarks
YAT-PZ-35	WG	G						5		X	X	X	X	See Remarks
YAT-PZ-37D	WG	G						5		X	X	X	X	See Remarks
YAT-PZ-51	WG	G	8/22/24	1606	—	—		5		X	X	X	X	See Remarks
YAT-PZ-52D	WG	G						5		X	X	X	X	See Remarks
YAT-YGWC-50	WG	G						5		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

Collected By:
Printed Name: (Arcadis) Jessica Ware
Signature: (Arcadis) Jessica Ware

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature) Jessica Ware / Arcadis	Date/Time: 8/23/24 1130	Received by/Company: (Signature) Ping Strum / Arcadis	Date/Time: 8/23/24 1130	Tracking Number:
Relinquished by/Company: (Signature) Ping Strum / Arcadis	Date/Time: 8/23/24 1350	Received by/Company: (Signature) Charles Hinds	Date/Time: 8/23/24 1350	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

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Pace® Location Requested (City/State):
Pace Analytical Charlotte
3800 Kinsey Ave. Suite 100, Huntersville, NC 28078

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Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd. Atlanta, GA 30308	Phone #:	205.846.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', B6		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
Identify Container Preservative Type***: 2 1 1 2
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 200mL, (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/V Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment
YAT-YAMW-2	WG	G						5		X	X	X	X	See Remarks
YAT-YAMW-3	WG	G						5		X	X	X	X	See Remarks
YAT-YAMW-4	WG	G						5		X	X	X	X	See Remarks
YAT-YAMW-5	WG	G	8/23/24	0855	—	—		5		X	X	X	X	See Remarks
YAT-PZ-37	WG	G						5		X	X	X	X	See Remarks
YAT-PZ-35	WG	G	8/22/24	1240	—	—		5		X	X	X	X	See Remarks
YAT-PZ-37D	WG	G						5		X	X	X	X	See Remarks
YAT-PZ-51	WG	G						5		X	X	X	X	See Remarks
YAT-PZ-52D	WG	G						5		X	X	X	X	See Remarks
YAT-YGWC-50	WG	G						5		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.

Collected By:
Printed Name: (Arcadis) David Brady
Signature: (Arcadis)

Additional Instructions from Pace*:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished By/Company: (Signature)	Date/Time: 8/23/24 1000	Received By/Company: (Signature) Arcadis	Date/Time: 8/23/24 1000	Tracking Number:	
Relinquished By/Company: (Signature) Arcadis	Date/Time: 8/23/24 1350	Received By/Company: (Signature)	Date/Time: 8/23/24 1350	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other	
Relinquished By/Company: (Signature)	Date/Time:	Received By/Company: (Signature)	Date/Time:		
Relinquished By/Company: (Signature)	Date/Time:	Received By/Company: (Signature)	Date/Time:	Page: of	

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Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

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Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YA1 AP-3, A, B/S: RS		Purchase Order # (if applicable):	GPCR2474-0002
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET		County / State origin of sample(s):	Georgia
Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other		Regulatory Program (DW, RCRA, etc.) as applicable:	
		Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other	DW PWSID # or WW Permit # as applicable:
		Date Results Requested:	Field Filtered (if applicable): [ ] Yes [X] No
			Analysis:

Specify Container Size **: 3 3 2 1

Identify Container Preservative Type***: 2 1 1 2

Analysis Requested

** Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers: Plastic	Number & Type of Containers: Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment	Preservation non conformance identified for sample.
YAT-YAMW-2	WG	G						5		X	X	X	X	See Remarks	
YAT-YAMW-3	WG	G						5		X	X	X	X	See Remarks	
YAT-YAMW-4	WG	G						5		X	X	X	X	See Remarks	
YAT-YAMW-5	WG	G						5		X	X	X	X	See Remarks	
YAT-PZ-37	WG	G						5		X	X	X	X	See Remarks	
YAT-PZ-35	WG	G						5		X	X	X	X	See Remarks	
YAT-PZ-37D	WG	G						5		X	X	X	X	See Remarks	
YAT-PZ-51	WG	G						5		X	X	X	X	See Remarks	
YAT-PZ 52D	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWC-50	WG	G	8/23/24	0905	—	—		5		X	X	X	X	See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App II Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg

Collected By:
Printed Name: (Arcadis): KIM LAPSZYNSKI
Signature: (Arcadis):

Additional Instructions from Pace®:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:	
[illegible] /TECHNOS	8/23/24 1130	[illegible] /Arcadis	8/23/24 1130		
Relinquished by/Company: (Signature) [illegible] /Arcadis	Date/Time: 8/23/24 1350	Received by/Company: (Signature)	Date/Time: 8/23/24 1350	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:		

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/

*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)	DG9A-40 mL Amber NH4C (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AGDU-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG8U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		1	1		2*		1**																							
2		1	1		2*		1**																							
3		1	1		2*		1**																							
4		1	1		2*		1**																							
5		1	1		2*		1**																							
6		1	1		2*		1**																							
7																														
8																														
9																														
10																														
11																														
12																														

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

DC#_Title: ENV-FRM-[illegible]

Effective Date: 05/24/2024

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Georgia Power

Project #:

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: 8/23/24 TG

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 236

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 1.9 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 1.9

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	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Qualtrax ID: 69614

Pace® Location Requested (City/State):
Pace Analytical Charlotte
5800 Kinsey 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:	rasingle@southernco.com
		Cc E-Mail	Arcadis contacts
Customer Project #:	Task No. YAT-CCR ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT All: 3, A, B/B', RB		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected:	[ ] AK [ ] PT [ ] MT [ ] CT [X] ET	County / State origin of sample(s):	Georgia

Specify Container Size:** 3 3 2 1

Identify Container Preservative Type*** 2 1 1 2

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL, vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCL (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

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

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	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment
YAT-YGWC-23S	WG	G						5		X	X	X	X	See Remarks
YAT-YAMW 1	WG	G	8/22/24	1015	—	—		5		X	X	X	X	See Remarks
YAT-AMA-R6-FD-1	WG	G	8/22/24	—	—	—		5		X	X	X	X	See Remarks
YAT-YGWC-36A	WG	G	8/22/24	1505	—	—		5		X	X	X	X	See Remarks
YAT-YGWC 49	WG	G						5		X	X	X	X	See Remarks
YAT-YGWC-38	WG	G						5		X	X	X	X	See Remarks
YAT-YGWC-24SB	WG	G	8/22/24	1740	—	—		5		X	X	X	X	See Remarks
YAT-YGWC-41	WG	G						5		X	X	X	X	See Remarks
YAT-YGWC-42	WG	G						5		X	X	X	X	See Remarks
YAT-YGWC-43	WG	G						5		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.

Collected By:
Printed Name: David Prouty
Signature: David Prouty

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature) David Prouty	Date/Time: 8/23/24 1000	Received by/Company: (Signature) Amy Baker / Arcadis	Date/Time: 8/23/24 1000	Tracking Number:
Relinquished by/Company: (Signature) Amy Baker / Arcadis	Date/Time: 8/23/24 1350	Received by/Company: (Signature)	Date/Time: 8/23/24 1350	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

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Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	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-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', R6		Purchase Order # (if applicable):	CPC82474-0002
		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

Identify Container Preservative Type*** 2 1 1 2

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) FrCore, (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; Acct/Num / 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	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment
YAT-YGWC-23S	WG	G						5		X	X	X	X	See Remarks
YAT-YAMW-1	WG	G						5		X	X	X	X	See Remarks
YAT-AMA-R6-FD-1	WG	G						5		X	X	X	X	See Remarks
YAT-YGWC-36A	WG	G						5		X	X	X	X	See Remarks
YAT-YGWC-49	WG	G	8/22/24	0935	—	—		5		X	X	X	X	See Remarks
YAT-YGWC-38	WG	G	8/23/24	0855	—	—		5		X	X	X	X	See Remarks
YAT-YGWC-24SB	WG	G						5		X	X	X	X	See Remarks
YAT-YGWC-41	WG	G						5		X	X	X	X	See Remarks
YAT-YGWC-42	WG	G						5		X	X	X	X	See Remarks
YAT-YGWC-43	WG	G						5		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

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:	Tracking Number:
Perry Studebaker / Arcadis	8/23/24 1350		8/23/24 1350	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In-Person [ ] Courier
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	[ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

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Pace® 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-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT APS, A, B/B', R6		Purchase Order # (if applicable):	GPC62474-0002
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET		County / State origin of sample(s):	Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 Day [ ] 5 Day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment
YAT-YGWC-23S	WG	G						5		X	X	X	X	See Remarks
YAT-YAMW-1	WG	G						5		X	X	X	X	See Remarks
YAT-AMA-R6-FD-1	WG	G						5		X	X	X	X	See Remarks
YAT-YGWC-36A	WG	G						5		X	X	X	X	See Remarks
YAT-YGWC-49	WG	G						5		X	X	X	X	See Remarks
YAT-YGWC-38	WG	G						5		X	X	X	X	See Remarks
YAT-YGWC-24SB	WG	G						5		X	X	X	X	See Remarks
YAT-YGWC-41	WG	G	8/23/24	1000	—	—		5		X	X	X	X	See Remarks
YAT-YGWC-42	WG	G	8/22/24	1123	—	—		5		X	X	X	X	See Remarks
YAT-YGWC-43	WG	G	8/22/24	1406	—	—		5		X	X	X	X	See Remarks

Specify Container Size **: 3 3 2 1

Identify Container Preservative Type***: 2 1 1 2

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only

Proj. Mgr: Bonnie Vang

AcctNum / Client ID:

Table #:

Profile / Template: 16561

Prelog / Bottle Ord. ID:

Preservation/Conformance identified for sample

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.

Collected By
Printed Name: (Arcadis) 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: 8/23/24 1130	Received by/Company: (Signature)	Date/Time: 8/23/24 1130	Tracking Number:
Relinquished by/Company: (Signature)	Date/Time: 8/23/24 1350	Received by/Company: (Signature)	Date/Time: 8/23/24 1350	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/

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Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☒ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Georgia Power

Project #:

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☒ No Seals Intact? ☐ Yes ☐ No ☒ N/A

Date/Initials Person Examining Contents: 8/23/24 / [initials]

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A

Thermometer: ☐ IR Gun ID: 236

Type of Ice: ☒ Wet ☐ Blue ☐ None

Cooler Temp: 1.9 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

Cooler Temp Corrected (°C): 1.9

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: ______

*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)	6P1U	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)	DG9Y-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SPST-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (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		1	1		2		1																							
2		1	1		2		1																							
3		1	1		2		1																							
4		1	1		2		1																							
5		1	1		2		1																							
6		1	1		2		1																							
7		1	1		2		1																							
8		1	1		2		1																							
9		1	1		2		1																							
10		1	1		2		1																							
11		1	1		2		1																							
12		1	1		2		1																							

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)	6511	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)	DG9H-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 (3.3-9.7)	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		1	1		2		1																							
2		1	1		2		1																							
3		1	1		2		1																							
4		1	1		2		1																							
5		1	1		2		1																							
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12																														

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

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:	tpsingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, 4, 6/8', RG		Purchase Order # (if applicable):	GPC82674-0002
		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								
Identify Container Preservative Type***	2	1	1	2								
Analysis Requested	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320								

**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	Sample Comment
YAT-AMA-R6-EB-1	WG	G						5		See Remarks
YAT-AMA-R6-FB-1	WG	G	8/22/24	1200	—	—		5		See Remarks
YAT-YGWC-24S9	WG	G						5		See Remarks
PZ-55	WG	G						5		See Remarks
PZ-54D	WG	G						5		See Remarks
YAT-AMA-R6-FD-2	WG	G						5		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

Collected By:
Printed Name: (Arcadis) Jessica Ware
Signature: (Arcadis) Jessica Ware

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature) Jessica Ware / Arcadis	Date/Time: 8/23/24 1130	Received by/Company: (Signature) Arcadis	Date/Time: 8/23/24 1130	Tracking Number:
Relinquished by/Company: (Signature) Andrew / Arcadis	Date/Time: 8/23/24 1350	Received by/Company: (Signature)	Date/Time: 8/23/24 1350	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/resources/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-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', R6		Purchase Order # (if applicable):	SPC82474-0002
		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	
		Data Results Requested:	
		DW PWSID # or WW Permit # as applicable:	
		Field Filtered (if applicable): [ ] Yes [X] No	
		Analysis:	

Specify Container Size **: 3 3 2 1
Identify Container Preservative Type***: 2 1 1 2
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100 mL, (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	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment
YAT-AMA-R6-EB-1	WG	G						5		X	X	X	X	See Remarks
YAT-AMA-R6-FB-1	WG	G						5		X	X	X	X	See Remarks
YAT-YGWC-24SB	WG	G						5		X	X	X	X	See Remarks
PZ-55	WG	G						5		X	X	X	X	See Remarks
PZ-54D	WG	G						5		X	X	X	X	See Remarks
YAT-AMA-R6-FD-2	WG	G	8/22/24	—	—	—		5		X	X	X	X	See Remarks

Lab Use Only: Proj. Mgr: Bonnie Vang; Acct Num / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non conformance identified for samples:

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg

Collected By:
Printed Name: (Arcadis) 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:	Tracking Number:
Perry Studebaker / Arcadis	8/23/24/1350		8/23/24 1350	
Relinquished By/Company: (Signature)	Date/Time:	Received By/Company: (Signature)	Date/Time:	Delivered by: [ ] In-Person [ ] Courier
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	[ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

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ENV-FRM-CORO-0019_v01_062123

Pace

Effective Date: 05/24/2024

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Georgia Power

Project #:

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: 8/23/24 TH

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 1.9

Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 1.9

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:

Qualtrax ID: 69614

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP1N	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP1Z-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)	DG9H-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)	DG9U-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AGDU-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		1	1		2		1																							
2		1	1		2		1																							
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

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:	9/12/2024
Worklist:	81240
Matrix:	WT

Method Blank Assessment	
MB Sample ID	3384817
MB concentration:	0.013
M/B 2 Sigma CSU:	0.268
MB MDC:	0.625
MB Numerical Performance Indicator:	0.09
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS81240	LCSD81240
Count Date:	9/17/2024	9/17/2024
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	35.260	35.260
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.818	0.815
Target Conc. (pCi/L, g, F):	4.311	4.325
Uncertainty (Calculated):	0.211	0.212
Result (pCi/L, g, F):	3.854	2.746
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.929	0.738
Numerical Performance Indicator:	-0.94	-4.03
Percent Recovery:	89.41%	63.50%
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.:	LCS81240	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD81240	
Sample Result (pCi/L, g, F):	3.854	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.929	
Sample Duplicate Result (pCi/L, g, F):	2.746	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.738	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	1.831	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	33.89%	
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:

VAL
9/18/24

Quality Control Sample Performance Assessment

Pace Analytical™
www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	9/9/2024
Worklist:	81002
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3370048
MB concentration:	0.081
M/B 2 Sigma CSU:	0.144
MB MDC:	0.327
MB Numerical Performance Indicator:	1.11
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS81002	**LCSD81002**
Count Date:	9/16/2024	9/16/2024
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.020	25.020
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.506	0.503
Target Conc. (pCi/L, g, F):	4.943	4.974
Uncertainty (Calculated):	0.232	0.234
Result (pCi/L, g, F):	5.073	4.860
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.914	0.921
Numerical Performance Indicator:	0.27	-0.23
Percent Recovery:	102.61%	97.71%
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.:	LCS81002	92749185006
Duplicate Sample I.D.	LCSD81002	92749185006DUP
Sample Result (pCi/L, g, F):	5.073	0.163
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.914	0.129
Sample Duplicate Result (pCi/L, g, F):	4.860	0.126
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.921	0.130
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	0.321	0.399
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	4.89%	25.75%
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:

LT 9-16-24

LAm 9/16/24

Quality Control Sample Performance Assessment

Pace Analytical™
www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	9/11/2024
Worklist:	81120
Matrix:	W

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3376225
MB concentration:	0.034
M/B 2 Sigma CSU:	0.137
MB MDC:	0.338
MB Numerical Performance Indicator:	0.48
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS81120	**LCSD81120**
Count Date:	9/17/2024	9/17/2024
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.020	25.020
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.501	0.505
Target Conc. (pCi/L, g, F):	4.992	4.952
Uncertainty (Calculated):	0.235	0.233
Result (pCi/L, g, F):	4.499	4.372
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.823	0.810
Numerical Performance Indicator:	-1.13	-1.35
Percent Recovery:	90.13%	88.29%
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.:	LCS81120	92749878005
Duplicate Sample I.D.	LCSD81120	92749878005DUP
Sample Result (pCi/L, g, F):	4.499	0.022
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.823	0.112
Sample Duplicate Result (pCi/L, g, F):	4.372	0.099
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.810	0.103
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	0.216	-0.988
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	2.06%	127.25%
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 9-17-24

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	9/12/2024
Worklist:	81121
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3376233
MB concentration:	0.035
M/B 2 Sigma CSU:	0.092
MB MDC:	0.223
MB Numerical Performance Indicator:	0.75
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS81121	LCSD81121
Count Date:	9/19/2024	9/19/2024
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.020	25.020
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.500	0.503
Target Conc. (pCi/L, g, F):	5.000	4.973
Uncertainty (Calculated):	0.235	0.234
Result (pCi/L, g, F):	4.407	5.008
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.835	0.920
Numerical Performance Indicator:	-1.34	0.07
Percent Recovery:	88.15%	100.72%
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.:	LCS81121	92749203007
Duplicate Sample I.D.	LCSD81121	92749203007DUP
Sample Result (pCi/L, g, F):	4.407	0.128
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.835	0.101
Sample Duplicate Result (pCi/L, g, F):	5.008	0.252
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.920	0.134
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	-0.949	-1.444
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	13.31%	65.11%
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 9-19-24

VAM 9/19/24

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	9/12/2024
Worklist:	81217
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3383135
MB concentration:	0.056
M/B 2 Sigma CSU:	0.099
MB MDC:	0.223
MB Numerical Performance Indicator:	1.11
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS81217	LCSD81217
Count Date:	9/19/2024	9/19/2024
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.020	25.020
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.502	0.501
Target Conc. (pCi/L, g, F):	4.987	4.993
Uncertainty (Calculated):	0.234	0.235
Result (pCi/L, g, F):	4.985	5.851
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.933	1.033
Numerical Performance Indicator:	0.00	1.59
Percent Recovery:	99.96%	117.18%
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.:	LCS81217	92749878009
Duplicate Sample I.D.	LCSD81217	92749878009DUP
Sample Result (pCi/L, g, F):	4.985	0.046
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.933	0.104
Sample Duplicate Result (pCi/L, g, F):	5.851	0.130
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.033	0.134
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	-1.220	-0.975
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	15.86%	96.14%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	N/A	N/A
% RPD Limit:	25%	25%

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

CT 9-19-24

LAM 9/19/24

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	ZPC
Date:	9/5/2024
Worklist:	80993
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3369429
MB concentration:	0.325
M/B 2 Sigma CSU:	0.297
MB MDC:	0.601
MB Numerical Performance Indicator:	2.14
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS80993	**LCSD80993**
Count Date:	9/11/2024	9/11/2024
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	35.330	35.330
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.816	0.815
Target Conc. (pCi/L, g, F):	4.330	4.333
Uncertainty (Calculated):	0.212	0.212
Result (pCi/L, g, F):	4.124	3.468
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.955	0.836
Numerical Performance Indicator:	-0.41	-1.97
Percent Recovery:	95.23%	80.05%
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.:	LCS80993	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD80993	
Sample Result (pCi/L, g, F):	4.124	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.955	
Sample Duplicate Result (pCi/L, g, F):	3.468	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.836	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	1.012	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	17.32%	
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:

ZPC 9.12.24

VAL 9/12/24

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test:	Ra-228
Analyst:	ZPC
Date:	9/11/2024
Worklist:	81044
Matrix:	WT

Method Blank Assessment	
MB Sample ID	3372182
MB concentration:	0.299
M/B 2 Sigma CSU:	0.317
MB MDC:	0.660
MB Numerical Performance Indicator:	1.85
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS81044	**LCSD81044**
Count Date:	9/17/2024	9/17/2024
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	35.259	35.259
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.819	0.816
Target Conc. (pCi/L, g, F):	4.305	4.321
Uncertainty (Calculated):	0.211	0.212
Result (pCi/L, g, F):	3.451	2.880
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.840	0.725
Numerical Performance Indicator:	-1.93	-3.74
Percent Recovery:	80.16%	66.65%
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.:	LCS81044	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD81044	
Sample Result (pCi/L, g, F):	3.451	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.840	
Sample Duplicate Result (pCi/L, g, F):	2.880	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.725	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	1.009	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	18.40%	
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:

VAL
9/18/24

November 2024
YGWC-50 and PZ-54D

Georgia Power Co. – Plant Yates

Data Review Report

Metals, General Chemistry, and Radium Analyses

SDGs #92766149, 92766154, 92762666, and 92762670

Analyses Performed By:
Pace Analytical Services – Asheville, North Carolina
Pace Analytical Services – Peachtree Corners, Georgia
Pace Analytical Services – Greensburg, Pennsylvania

Report #57422R
Review Level: Tier II
Project: 30143626.3C

Summary

This Data Review Report summarizes the review of Sample Delivery Groups (SDGs) #92766149, 92766154, 92762666, and 92762670 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:

SDG	Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
						RAD	MET	GEN CHEM
92766149 92766154	YAT-YGWC-50	92766149001 92766154001	Water	11/26/2024		X	X	X
	YAT-AMA-R6-FB-1	92766149002 92766154002	Water	11/26/2024		X	X	X
	YAT-AMA-R6-EB-1	92766149003 92766154003	Water	11/26/2024		X	X	X
	YAT-AMA-R6-FD-1	92766149004 92766154004	Water	11/26/2024	YAT-YGWC-50	X	X	X
92762666 92762670	YAT-PZ-54D	92762666001 92762670001	Water	11/7/2024		X	X	X

Notes:

1. Metals and total dissolved solids (TDS) analysis performed by Pace Analytical Services – Peachtree Corners, Georgia.
2. Anions (chloride, fluoride, and sulfate) analysis performed by Pace Analytical Services – Asheville, North Carolina.
3. 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 6010D, 6020B, 7470A, 9315, and 9320; Standard Method (SM) SM2540C; and USEPA Method 300.0. Data were reviewed in accordance with USEPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma–Atomic Emission Spectroscopy and Inductively Coupled Plasma–Mass Spectroscopy (September 2011, Rev. 2), USEPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Mercury Data by Cold Vapor Atomic Absorption (September 2011, Rev. 2), and the USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA 542-R-20-006, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, OSWER 9240.1-45, October 2004, as appropriate).

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and that it was already subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with the USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
  - U The analyte was analyzed for but not detected. The associated value is the analyte instrument detection limit.
  - J The reported value was obtained from a reading less than the reporting limit (RL), but greater than or equal to the method detection limit (MDL).
- Quantitation (Q) Qualifiers
  - E The reported value is estimated due to the presence of interference.
  - N Spiked sample recovery is not within control limits.
  - * Duplicate analysis is not within control limits.
- Validation Qualifiers
  - J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
  - UJ The analyte was not detected above the reporting limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
  - UB Analyte considered non-detect at the listed value due to associated blank contamination.
  - R The sample results are rejected.

Two facts should be noted by all data users. First, the “R” flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. “R” values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Metals Analyses

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 6010D/6020B	Water	180 days from collection to analysis	Cool to <6°C; preserved to a pH of less than 2 s.u.
SW-846 7470A	Water	28 days from collection to analysis	Cool to <6°C; preserved to a pH of less than 2 s.u.

Note:
s.u. = standard units

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

All compounds associated with the QA blanks exhibited a concentration less than the MDL, with the exception of the compounds listed in the following table. Sample results less than the BAL associated with the following sample locations were qualified as listed in the following table.

Sample Locations	Analytes	Sample Result	Qualification
SDG #92766149 YAT-YGWC-50 YAT-AMA-R6-FD-1	Chromium (EB, FB)	Detected sample results <RL and <BAL	"UB" at RL
SDG #92762666 YAT-PZ-54D	Antimony (MB)		

Notes:
EB = Equipment blank
FB = Field blank
MB = Method blank
RL = Reporting limit

3. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate Analysis

MS/MSD and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

3.1 MS/MSD Analysis

All metal analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS recovery control limits do not apply for MS performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS concentration by a factor of four or greater.

SDG #92766149: MS/MSD analysis was not performed using a sample from this SDG in association with SW-846 6010D analysis.

SDG #92766149: The MS/MSD analysis performed using sample YAT-YGWC-50 in association with SW-846 6020B analysis exhibited recoveries within the control limits. The concentration of boron in the unspiked sample was greater than four-times the spike concentration, hence, the MS/MSD sample result for boron was not evaluated.

SDG #92766149: The MS/MSD analysis performed using sample YAT-AMA-R6-FB-1 in association with SW-846 7470A analysis exhibited recoveries within the control limits.

SDG #92762666: 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.

SDG #92766149: Laboratory duplicate analysis was not performed using a sample from this SDG in association with SW-846 6010D analysis.

SDG #92766149: MS/MSD analysis was performed in replacement of the laboratory duplicate analysis in association with SW-846 6020B and SW-846 7470A analysis. The MS/MSD recoveries exhibited acceptable RPDs.

SDG #92762666: Laboratory duplicate analysis was not performed using a sample from this SDG.

4. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 35% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YAT-YGWC-50 / YAT-AMA-R6-FD-1	Calcium	308	313	1.6%
	Beryllium	0.0037	0.0036	2.7%
	Boron	23.8	23.2	2.6%
	Cadmium	0.015	0.013	14.3%
	Antimony	0.00092 J	0.00089 J	AC
	Arsenic	0.0045 J	0.0047 J	
	Barium	0.019	0.018	
	Cobalt	0.0075	0.0073	
	Lead	0.00033 J	0.00028 J	
	Lithium	0.0032 J	0.0032 J	
	Selenium	0.0022 J	0.0018 J	

Note:
AC = Acceptable

The differences in the results between the parent sample YAT-YGWC-50 and field duplicate sample YAT-AMA-R6-FD-1 were acceptable.

5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analysis exhibited recoveries within the control limits.

6. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for Metals

METALS: SW-846 6010D/6020B/7470A	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP-AES) Inductively Coupled Plasma-Mass Spectrometry (ICP-MS) Atomic Absorption – Manual Cold Vapor (CV)					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method Blanks		X	X		
B. Equipment/Field Blanks		X	X		
Laboratory Control Sample (LCS) %R		X		X	
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Laboratory Duplicate (RPD)	X				X
Field Duplicate (RPD)		X		X	

Notes:

%R Percent recovery

RPD Relative percent difference

General Chemistry Analyses

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
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.

Compounds 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.

MS/MSD analysis was not performed using a sample from these SDGs.

3.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the RL. A control limit of 20% for water matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of one times the RL is applied for water matrices.

Laboratory duplicate analysis was not performed using a sample from these SDGs.

4. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 35% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YAT-YGWC-50 / YAT-AMA-R6-FD-1	Total Dissolved Solids	2,010	1,980	1.5%
	Chloride	10.5	10.4	1.0%
	Fluoride	0.15	0.15	AC
	Sulfate	1,010	1,010	0.0%

Note:
AC = Acceptable

The differences in the results between the parent sample YAT-YGWC-50 and field duplicate sample YAT-AMA-R6-FD-1 were acceptable.

5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analysis exhibited recoveries within the control limits.

6. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for General Chemistry

General Chemistry: 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

SDG #92766154: Radium-228 and total radium were detected in the associated equipment blank YAT-AMA-R6-EB-1 at am activity greater than the uncertainty and MDC; however, the associated sample results were non-detect. No qualification of the sample results was required.

SDG #92762670: Radium-226 and Radium-228 were not detected in the method blanks at activities greater than the uncertainty and MDC.

3. Matrix Spike (MS)/Laboratory Duplicate Analysis

MS and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

3.1 MS Analysis

MS samples are not typically analyzed for gamma spectral content due to the inability of the laboratory to homogenize spike material with the sample.

If performed, the spike analysis must exhibit a percent recovery within the control limits of 70% to 130%. The MS recovery control limits do not apply for MS performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits.

In the event the recovery is outside of this limit, a numerical indicator to make assessments is calculated, with a limit of < ±3 sigma for either.

The numerical performance indicator for a matrix spike sample is calculated by:

$$Z_{MS} = \frac{x - x_0 - c}{\sqrt{u^2(x) + u^2(x_0) + u^2(c)}}$$

Where:

x = measured concentration of the spiked sample.

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 these SDGs.

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 these SDGs.

4. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. There are no specific review criteria for radiological field replicate analyses comparability. The degree of agreement between these replicates is to be used in conjunction with all of the remaining quality control results as an aid in the decision as to the overall quality of the data. Data are not to be qualified due to field replicates alone. To determine the level of agreement between the replicates, the following guidelines have been established:

Data should be considered in agreement if results are within a factor of four of each other. Data between a factor of four and five of each other should be considered as a minor discrepancy and data greater than a factor of five should be considered a major discrepancy.

The field duplicate sample results are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YAT-YGWC-50 / YAT-AMA-R6-FD-1	All analytes	< MDC	< MDC	AC

Note:
AC = Acceptable

Analytes were not detected above the MDC in the parent sample YAT-YGWC-50 and field duplicate sample YAT-AMA-R6-FD-1 and the difference in the results is considered acceptable.

5. Tracer or Carrier

Tracers and carriers are used in radiological separation methods to provide evaluation of chemical separation. Chemical yield is evaluated through the recovery of chemical species spiked into samples. Yield is evaluated radiometrically with a tracer and gravimetrically with a carrier. A control limit of 30% to 110% is applied to each sample spiked with either a carrier and/or a tracer.

The tracer and carrier analyses exhibited recoveries within the control limits.

6. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS/LCSD analysis must exhibit a percent recovery between the control limits of 60% to 135%. In the event the recovery is outside of this limit, a numerical indicator to make assessments is calculated, with a limit of +/- 3 sigma.

The numerical performance indicator for a laboratory control sample is calculated by:

$$Z_{LCS} = \frac{x - c}{\sqrt{u^2(x) + u^2(c)}}$$

Where:

x = Analytical result of the LCS

c = Known concentration of the LCS

$u^2(x)$ = combined standard uncertainty of the result squared.

$u^2(c)$ = combined standard uncertainty of the LCS value squared.

LCS performance is acceptable when the numerical performance indicator calculation yields a value between ±3 sigma. Warning limits have been established as ±2 sigma.

The LCS/LCSD analysis exhibited recoveries within the control limits.

7. Isotope Identification

For sample results to be considered “non-detect”, evaluate data based on the following two criteria. If either one of these criteria is true, the sample result is considered “non-detect”.

1. Sample result is less than the uncertainty and less than the MDC/MDA; or
2. Sample has an uncertainty greater than the result (or indistinguishable from background) or result falls between its uncertainty and its MDC/MDA.

Based on the above criteria sample results were qualified as “U” by the laboratory as applicable.

8. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for Radiologicals

Radiologicals: SW-846 9315/9320	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding Times		X		X	
Activity, +/- uncertainty, MDC/MDA		X		X	
Blanks					
A. Method Blanks		X		X	
B. Equipment/Field Blanks		X		X	
Carrier (Surrogate) %R		X		X	
Tracer (Surrogate) %R		X		X	
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate (LCSD) %R		X		X	
LCS/LCSD Precision (RPD)		X		X	
Matrix Spike (MS) %R	X				X
Matrix Spike Duplicate (MSD) %R	X				X
MS/MSD Precision (RPD)	X				X
Laboratory Duplicate (RPD)	X				X
Field Duplicate (RPD)		X		X	

Notes:
%R Percent recovery
RPD Relative percent difference

VALIDATION PERFORMED BY: Jennifer Singer

SIGNATURE: 

DATE: January 8, 2025

PEER REVIEW: Joseph C. Houser

DATE: January 10, 2025

Chain of Custody / Data Qualifier Summary Table

WO# : 92762666

92762666

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

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-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', RB		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other

Regulatory Program (DW, NCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

* Matrix Codes (insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vacuum (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1

Identify Container Preservative Type***: 2 1 1 2

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment	Preservation Non-conformance identified for sample
YAT-PZ-54D	WG	G	11/7/24	1348				5		X	X	X	X	See Remarks	
~~YAT-AMA-RB-EB-1~~ AP	~~WG~~	~~G~~						~~5~~		~~X~~	~~X~~	~~X~~	X	See Remarks	
~~YAT-AMA-RB-FB-1~~ AP	~~WG~~	~~G~~						~~5~~		X	X	X	~~X~~	See Remarks	
~~YAT-AMA-RB-EB-2~~ AP	~~WG~~	~~G~~						5		X	X	X	~~X~~	See Remarks	

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B, 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg

Collected By:
Printed Name: [Arcadis]
Signature: [Arcadis]

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time: 11/8/24 1125	Received by/Company: (Signature) MTW	Date/Time: 11/8/24 1125	Tracking Number:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In-Person [ ] Courier	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	[ ] FedEx [ ] UPS [ ] Other	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of	

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

WO# : 92766149

92766149

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd. Atlanta, GA 30308	Phone #:	205-346-3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-OTH-20241126	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP 3, A, B/5, R6		Purchase Order # (if applicable):	GPC8247 4-0002
		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: Standard TAT

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
Identify Container Preservative Type***: 2 1 1 2
Analysis Requested

** Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

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/III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/9320	Sample Comment	Preservation non-conformance identified for sample.
YAT-YGWC-50	WG	G	11/26/24	1045	--	--		5	1	X	X	X	X	See Remarks 001	
YAT-AMA-R6-FB-1	WG	G	11/26/24	1100	--	--		5	1	X	X	X	X	See Remarks 002	
YAT-AMA-R6-EB-1	WG	G	11/26/24	1200	--	--		5	1	X	X	X	X	See Remarks 003	
YAT-AMA-R6-FD-1	WG	G	11/26/24	--	--	--		5	1	X	X	X	X	See Remarks 004	
					--	--									

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, T

Collected By:
Printed Name: (Arcadis) David Paputy
Signature: (Arcadis)

Additional Instructions from Pace*:
Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time: 11/26/24 1439	Received by/Company: (Signature)	Date/Time: 11/26/24 1439	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: 1 of 1

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace* Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORC-0010_v01_082123

SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier	Reason for Validation Qualifier
92766149	YAT-YGWC-50	SW846 6020B	Chromium	0.0050	mg/L	UB	Blank contamination
	YAT-AMA-R6-FD-1	SW846 6020B	Chromium	0.0050	mg/L	UB	Blank contamination
92766154	No qualifiers assigned						
92762666	YAT-PZ-54D	SW846 6020B	Antimony	0.0030	mg/L	UB	Blank contamination
92762670	No qualifiers assigned						

Abbreviations:

mg/L = milligrams per liter

Qualifiers:

UB = not detected due to blank contamination

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

November 21, 2024

Trey Singleton
Southern Company
241 Ralp McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: YAT- AP-3, A, B/B', R6
Pace Project No.: 92762666

Dear Trey Singleton:

Enclosed are the analytical results for sample(s) received by the laboratory on November 08, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Peachtree Corners, GA

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
Becky Steever, Arcadis
Jessica Ware, Arcadis
Albert Zumbuhl, Arcadis

Pace Analytical Services, LLC
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CERTIFICATIONS

Project: YAT- AP-3, A, B/B', R6
Pace Project No.: 92762666

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: YAT- AP-3, A, B/B', R6
Pace Project No.: 92762666

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92762666001	**YAT-PZ-54D**	Water	11/07/24 13:48	11/08/24 11:25

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SAMPLE ANALYTE COUNT

Project: YAT- AP-3, A, B/B', R6
Pace Project No.: 92762666

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92762666001	**YAT-PZ-54D**	EPA 6010D	AJM	1
		EPA 6020B	CW1, MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3

PASI-A = Pace Analytical Services - Asheville
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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SUMMARY OF DETECTION

Project: YAT- AP-3, A, B/B', R6
Pace Project No.: 92762666

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92762666001	**YAT-PZ-54D**					
EPA 6010D	Calcium	60.6	mg/L	1.0	11/10/24 20:39	
EPA 6020B	Antimony	0.00082J	mg/L	0.0030	11/19/24 14:50	B
EPA 6020B	Arsenic	0.0015J	mg/L	0.0050	11/20/24 13:24	
EPA 6020B	Barium	0.042	mg/L	0.0050	11/19/24 14:50	
EPA 6020B	Beryllium	0.00014J	mg/L	0.00050	11/19/24 14:50	
EPA 6020B	Boron	1.8	mg/L	0.040	11/19/24 14:50	
EPA 6020B	Cadmium	0.00038J	mg/L	0.00050	11/19/24 14:50	
EPA 6020B	Cobalt	0.0040J	mg/L	0.0050	11/19/24 14:50	
EPA 6020B	Lead	0.00063J	mg/L	0.0010	11/19/24 14:50	
EPA 6020B	Lithium	0.027J	mg/L	0.030	11/19/24 14:50	
EPA 6020B	Molybdenum	0.017	mg/L	0.010	11/19/24 14:50	
SM 2540C-2015	Total Dissolved Solids	643	mg/L	25.0	11/12/24 13:45	
EPA 300.0 Rev 2.1 1993	Chloride	5.5	mg/L	1.0	11/09/24 19:21	
EPA 300.0 Rev 2.1 1993	Fluoride	0.090J	mg/L	0.10	11/09/24 19:21	
EPA 300.0 Rev 2.1 1993	Sulfate	174	mg/L	4.0	11/09/24 23:31	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: YAT- AP-3, A, B/B', R6
Pace Project No.: 92762666

Sample: YAT-PZ-54D **Lab ID: 92762666001** Collected: 11/07/24 13:48 Received: 11/08/24 11:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**60.6**	mg/L	1.0	0.12	1	11/09/24 09:38	11/10/24 20:39	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.00082J**	mg/L	0.0030	0.00054	1	11/09/24 09:38	11/19/24 14:50	7440-36-0	B
Arsenic	**0.0015J**	mg/L	0.0050	0.00084	1	11/09/24 09:38	11/20/24 13:24	7440-38-2	
Barium	**0.042**	mg/L	0.0050	0.00047	1	11/09/24 09:38	11/19/24 14:50	7440-39-3	
Beryllium	**0.00014J**	mg/L	0.00050	0.000094	1	11/09/24 09:38	11/19/24 14:50	7440-41-7	
Boron	**1.8**	mg/L	0.040	0.012	1	11/09/24 09:38	11/19/24 14:50	7440-42-8	
Cadmium	**0.00038J**	mg/L	0.00050	0.00010	1	11/09/24 09:38	11/19/24 14:50	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	11/09/24 09:38	11/19/24 14:50	7440-47-3	
Cobalt	**0.0040J**	mg/L	0.0050	0.00032	1	11/09/24 09:38	11/19/24 14:50	7440-48-4	
Lead	**0.00063J**	mg/L	0.0010	0.00016	1	11/09/24 09:38	11/19/24 14:50	7439-92-1	
Lithium	**0.027J**	mg/L	0.030	0.0016	1	11/09/24 09:38	11/19/24 14:50	7439-93-2	
Molybdenum	**0.017**	mg/L	0.010	0.00062	1	11/09/24 09:38	11/19/24 14:50	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	11/09/24 09:38	11/19/24 14:50	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	11/09/24 09:38	11/19/24 14:50	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	11/19/24 08:00	11/19/24 13:46	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**643**	mg/L	25.0	25.0	1		11/12/24 13:45		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.5**	mg/L	1.0	0.60	1		11/09/24 19:21	16887-00-6	
Fluoride	**0.090J**	mg/L	0.10	0.050	1		11/09/24 19:21	16984-48-8	
Sulfate	**174**	mg/L	4.0	2.0	4		11/09/24 23:31	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT- AP-3, A, B/B', R6
Pace Project No.: 92762666

QC Batch: 894834
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92762666001

METHOD BLANK: 4607097 Matrix: Water
Associated Lab Samples: 92762666001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	11/11/24 15:50	

LABORATORY CONTROL SAMPLE: 4607098

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.92J	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4607099 4607100

Parameter	Units	92762364001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	ND	1	1	1.8	1.7	95	90	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT- AP-3, A, B/B', R6
Pace Project No.: 92762666

QC Batch: 894835
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92762666001

METHOD BLANK: 4607101 Matrix: Water
Associated Lab Samples: 92762666001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	0.00071J	0.0030	0.00054	11/19/24 13:24	
Arsenic	mg/L	ND	0.0050	0.00084	11/19/24 13:24	
Barium	mg/L	ND	0.0050	0.00047	11/19/24 13:24	
Beryllium	mg/L	ND	0.00050	0.000094	11/19/24 13:24	
Boron	mg/L	ND	0.040	0.012	11/19/24 13:24	
Cadmium	mg/L	ND	0.00050	0.00010	11/19/24 13:24	
Chromium	mg/L	ND	0.0050	0.0019	11/19/24 13:24	
Cobalt	mg/L	ND	0.0050	0.00032	11/19/24 13:24	
Lead	mg/L	ND	0.0010	0.00016	11/19/24 13:24	
Lithium	mg/L	ND	0.030	0.0016	11/19/24 13:24	
Molybdenum	mg/L	ND	0.010	0.00062	11/19/24 13:24	
Selenium	mg/L	ND	0.0050	0.00096	11/19/24 13:24	
Thallium	mg/L	ND	0.0010	0.00038	11/19/24 13:24	

LABORATORY CONTROL SAMPLE: 4607102

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.098	98	80-120	
Arsenic	mg/L	0.1	0.099	99	80-120	
Barium	mg/L	0.1	0.10	101	80-120	
Beryllium	mg/L	0.1	0.10	102	80-120	
Boron	mg/L	1	1.1	107	80-120	
Cadmium	mg/L	0.1	0.098	98	80-120	
Chromium	mg/L	0.1	0.098	98	80-120	
Cobalt	mg/L	0.1	0.098	98	80-120	
Lead	mg/L	0.1	0.10	101	80-120	
Lithium	mg/L	0.1	0.11	106	80-120	
Molybdenum	mg/L	0.1	0.10	101	80-120	
Selenium	mg/L	0.1	0.097	97	80-120	
Thallium	mg/L	0.1	0.10	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4607103 4607104

Parameter	Units	92762623001 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	0.098	96	97	75-125	1	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	100	102	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: YAT- AP-3, A, B/B', R6
Pace Project No.: 92762666

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4607103 4607104

Parameter	Units	92762623001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	277 ug/L	0.1	0.1	0.37	0.39	97	110	75-125	4	20	
Beryllium	mg/L	0.80J ug/L	0.1	0.1	0.10	0.10	102	102	75-125	0	20	
Boron	mg/L	ND	1	1	1.1	1.0	106	103	75-125	3	20	
Cadmium	mg/L	ND	0.1	0.1	0.097	0.10	96	101	75-125	4	20	
Chromium	mg/L	ND	0.1	0.1	0.11	0.11	105	104	75-125	1	20	
Cobalt	mg/L	6.0J ug/L	0.1	0.1	0.11	0.11	103	103	75-125	0	20	
Lead	mg/L	0.19J ug/L	0.1	0.1	0.10	0.099	100	99	75-125	1	20	
Lithium	mg/L	3.8J ug/L	0.1	0.1	0.11	0.11	103	103	75-125	0	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	100	101	75-125	1	20	
Selenium	mg/L	ND	0.1	0.1	0.097	0.098	96	97	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.098	0.098	98	97	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT- AP-3, A, B/B', R6
Pace Project No.: 92762666

QC Batch: 896849
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92762666001

METHOD BLANK: 4616941 Matrix: Water
Associated Lab Samples: 92762666001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	11/19/24 12:51	

LABORATORY CONTROL SAMPLE: 4616942

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0025	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4616943 4616944

Parameter	Units	92762188002 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	0.0025	103	100	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(704)875-9092

QUALITY CONTROL DATA

Project: YAT- AP-3, A, B/B', R6
Pace Project No.: 92762666

QC Batch: 895288
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92762666001

METHOD BLANK: 4608785 Matrix: Water
Associated Lab Samples: 92762666001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	11/12/24 13:42	

LABORATORY CONTROL SAMPLE: 4608786

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	418	104	80-120	

SAMPLE DUPLICATE: 4608787

Parameter	Units	92762733002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1360	1350	1	10	

SAMPLE DUPLICATE: 4608788

Parameter	Units	92762733009 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	362	379	5	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT- AP-3, A, B/B', R6
Pace Project No.: 92762666

QC Batch: 894869
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: 92762666001

METHOD BLANK: 4607215 Matrix: Water
Associated Lab Samples: 92762666001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	11/09/24 13:20	
Fluoride	mg/L	ND	0.10	0.050	11/09/24 13:20	
Sulfate	mg/L	ND	1.0	0.50	11/09/24 13:20	

LABORATORY CONTROL SAMPLE: 4607216

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.2	102	90-110	
Fluoride	mg/L	2.5	2.6	104	90-110	
Sulfate	mg/L	50	51.1	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4607217 4607218

Parameter	Units	92762627008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	9.9	50	50	60.5	61.1	101	102	90-110	1	10	
Fluoride	mg/L	0.053J	2.5	2.5	2.7	2.7	106	107	90-110	1	10	
Sulfate	mg/L	17.9	50	50	56.5	68.2	77	101	90-110	19	10	M1,R1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4607219 4607220

Parameter	Units	92762080001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	51.8	50	50	84.8	85.1	66	67	90-110	0	10	M1
Fluoride	mg/L	ND	2.5	2.5	2.6	2.6	104	103	90-110	1	10	
Sulfate	mg/L	24.0	50	50	62.3	74.6	77	101	90-110	18	10	M1,R1

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: YAT- AP-3, A, B/B', R6
Pace Project No.: 92762666

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

B	Analyte was detected in the associated method blank.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT- AP-3, A, B/B', R6
Pace Project No.: 92762666

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92762666001	**YAT-PZ-54D**	EPA 3010A	894834	EPA 6010D	894889
92762666001	**YAT-PZ-54D**	EPA 3005A	894835	EPA 6020B	894904
92762666001	**YAT-PZ-54D**	EPA 7470A	896849	EPA 7470A	896905
92762666001	**YAT-PZ-54D**	SM 2540C-2015	895288		
92762666001	**YAT-PZ-54D**	EPA 300.0 Rev 2.1 1993	894869		

WO# : 92762666

92762666

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

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-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', RB		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other

Regulatory Program (DW, NCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

Specify Container Size **: 3 3 2 1

Identify Container Preservative Type***: 2 1 1 2

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

* 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), Vacuum (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment	Preservation Non-conformance identified for sample
YAT-PZ-54D	WG	G	11/7/24	1348				5		X	X	X	X	See Remarks	
~~YAT-AMA-RB-EB-1~~ AP	~~WG~~	~~G~~						~~5~~		~~X~~	~~X~~	~~X~~	X	See Remarks	
~~YAT-AMA-RB-FB-1~~ AP	~~WG~~	~~G~~						~~5~~		X	X	X	~~X~~	See Remarks	
~~YAT-AMA-RB-EB-2~~ AP	~~WG~~	~~G~~						5		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

Collected By:
Printed Name: [Arcadis]
Signature: [Arcadis]

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	11/8/24 1125	MTW	11/8/24 1125
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

Page: of

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

Effective Date: 05/24/2024

Laboratory receiving samples: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

WO# : 92762666

Project #:

PM: BV **Due Date: 11/22/24**

CLIENT: 92-GP-Yates

Sample Condition Upon Receipt

Client Name: Southern Company ☑ Client

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Other:____ ☐ Pace

Custody Seal Present? ☒ Yes ☐ No Seals Intact? ☒ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: Hcrw 11/8/24

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☐ N/A

Thermometer: ☐ IR Gun ID: 230

Type of Ice: ☒ Wet ☐ Blue ☐ None

Cooler Temp: 2.6

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): 2.6

USDA Regulated Soil (☐ N/A, water sample) Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☒ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☒ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☒ No	☐ N/A	4.
Sufficient Volume?	☒ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☒ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☒ Yes	☐ No	☐ N/A	
Containers Intact?	☒ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☒ N/A	8.
Sample Labels Match COC?	☒ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: 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:

Qualtrax ID: 69614

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

WO# : 92762666

PM: BV Due Date: 11/22/24

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 Southern Comp Profile/EZ (Circle one) 16561 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)	DG9H-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		1	1				1																						
2																													
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

December 06, 2024

Trey Singleton
Southern Company
241 Ralp McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: YAT- AP-3, A, B/B', R6 RADs
Pace Project No.: 92762670

Dear Trey Singleton:

Enclosed are the analytical results for sample(s) received by the laboratory on November 08, 2024. 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
Becky Steever, Arcadis
Jessica Ware, Arcadis
Albert Zumbuhl, Arcadis

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: YAT- AP-3, A, B/B', R6 RADs
Pace Project No.: 92762670

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: YAT- AP-3, A, B/B', R6 RADs
Pace Project No.: 92762670

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92762670001	**YAT-PZ-54D**	Water	11/07/24 13:48	11/08/24 11:25

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: YAT- AP-3, A, B/B', R6 RADs
Pace Project No.: 92762670

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92762670001	**YAT-PZ-54D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: YAT- AP-3, A, B/B', R6 RADs
Pace Project No.: 92762670

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92762670001	**YAT-PZ-54D**					
EPA 9315	Radium-226	0.131U ± 0.121 (0.232) C:77% T:NA	pCi/L		12/04/24 08:28	
EPA 9320	Radium-228	0.260U ± 0.455 (0.994) C:75% T:80%	pCi/L		12/02/24 11:52	
Total Radium Calculation	Total Radium	0.391U ± 0.576 (1.23)	pCi/L		12/04/24 12:33	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT- AP-3, A, B/B', R6 RADs
Pace Project No.: 92762670

Sample: YAT-PZ-54D **Lab ID: 92762670001** Collected: 11/07/24 13:48 Received: 11/08/24 11:25 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	**0.131U ± 0.121 (0.232) C:77% T:NA**	pCi/L	12/04/24 08:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.260U ± 0.455 (0.994) C:75% T:80%**	pCi/L	12/02/24 11:52	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.391U ± 0.576 (1.23)**	pCi/L	12/04/24 12:33	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT- AP-3, A, B/B', R6 RADs
Pace Project No.: 92762670

QC Batch: 710060
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92762670001

METHOD BLANK: 3457948 Matrix: Water
Associated Lab Samples: 92762670001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0101 ± 0.0819 (0.217) C:83% T:NA	pCi/L	12/04/24 08:26	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT- AP-3, A, B/B', R6 RADs
Pace Project No.: 92762670

QC Batch: 710058
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92762670001

METHOD BLANK: 3457943 Matrix: Water
Associated Lab Samples: 92762670001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	-0.00970 ± 0.309 (0.724) C:77% T:86%	pCi/L	12/02/24 11:52	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: YAT- AP-3, A, B/B', R6 RADs
Pace Project No.: 92762670

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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT- AP-3, A, B/B', R6 RADs
Pace Project No.: 92762670

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92762670001	**YAT-PZ-54D**	EPA 9315	710060		
92762670001	**YAT-PZ-54D**	EPA 9320	710058		
92762670001	**YAT-PZ-54D**	Total Radium Calculation	713199		

WO# : 92762670

92762670

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

Scan QR Code for Instructions

Company Name:	Southern Company
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308
Customer Project #:	Task No. YAT-CCR-ASSMT-202452
Project Name:	Georgia Power Yates
Site Collection Info/Facility ID (as applicable):	YAT AP-3, 4, B/B', 86
Contact/Report To:	Trey Singleton
Phone #:	205.346.3317
E-Mail:	tsingle@southernco.com
Cc E-Mail:	Arcadis contacts
Invoice To:	
Invoice E-Mail:	
Purchase Order # (if applicable):	GPC82474-0002
Quote #:	
Time Zone Collected:	[ ] AK [ ] PT [ ] MT [ ] CT [X] ET
Country / 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

Identify Container Preservative Type***: 2 1 1 2

Analysis Requested

** Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCL (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only:
- Proj. Mgr.: Bonnie Vang
- Acct/Num / 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 (O); Surface Water (SW);Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers: Plastic	Number & Type of Containers: Glass	App III/V Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	HAD SW846 9315/8320	Sample Comment
YAT-PZ-54D	WG	G	11/7/24	1348				5		X	X	X	X	See Remarks
~~YAT-AMA-B6-EB-1~~ AP	~~WG~~	~~G~~						~~5~~		~~X~~ X	~~X~~ X	~~X~~ X	~~X~~ X	See Remarks
~~YAT-AMA-R6-FB-1~~ AP	~~WG~~	~~G~~						~~5~~		~~X~~ X	~~X~~ X	~~X~~ X	~~X~~ X	See Remarks
~~YAT-AMA-R6-EB-1~~ AP	~~WG~~	~~G~~						5		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

Collected By:
Printed Name: (Arcadis)
Signature: (Arcadis)

Additional Instructions from Pace®:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp (°C) Corrected Temp (°C)

Relinquished by/Company: (Signature)	Date/Time: 11/8/24 1125	Received by/Company: (Signature) MTW	Date/Time: 11/8/24 1125	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: 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 ©

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#: 92762670

Sample Condition Upon Receipt

Client Name: Southern Company ☒ Client

Project #:

PM: BV Due Date: 12/03/24

CLIENT: 92-GP-Yates

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Other: ☐ Pace

Custody Seal Present? ☒ Yes ☐ No Seals Intact? ☒ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: MRW 11/13/24

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☐ N/A

Thermometer: ☐ IR Gun ID: 230

Type of Ice: ☒ Wet ☐ Blue ☐ None

Cooler Temp: 2.6 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): 2.6

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☒ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☒ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☒ No	☐ N/A	4.
Sufficient Volume?	☒ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☒ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☒ Yes	☐ No	☐ N/A	
Containers Intact?	☒ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☒ N/A	8.
Sample Labels Match COC?	☒ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: 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:

Qualtrax ID: 69614

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

WO# : 92762670

*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 # PM: BV Due Date: 12/03/24
CLIENT: 92-GP-Yates

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☒ Kernersville ☐

Client Southern Company Profile/EZ (Circle one) 16561 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)	AGDU-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation Vials (N/A)	nealAir-40 mL Amber Unpreserved vials (N/A)
CC																														
1					8																									
2																														
3																														
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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.

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	11/23/2024
Worklist:	82412
Matrix:	W

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3457948
MB concentration:	0.010
M/B 2 Sigma CSU:	0.082
MB MDC:	0.217
MB Numerical Performance Indicator:	0.24
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS82412	LCSD82412
Count Date:	12/4/2024	12/4/2024
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.017	25.017
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.504	0.504
Target Conc. (pCi/L, g, F):	4.967	4.964
Uncertainty (Calculated):	0.233	0.233
Result (pCi/L, g, F):	4.535	4.879
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.858	0.889
Numerical Performance Indicator:	-0.95	-0.18
Percent Recovery:	91.31%	98.28%
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.:	LCS82412	92762729009
Duplicate Sample I.D.	LCSD82412	92762729009DUP
Sample Result (pCi/L, g, F):	4.535	0.157
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.858	0.132
Sample Duplicate Result (pCi/L, g, F):	4.879	0.122
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.889	0.108
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	-0.545	0.404
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	7.36%	25.16%
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:

12/4/24

SLC 12/4/2024

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	ZPC
Date:	11/21/2024
Worklist:	82411
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3457943
MB concentration:	-0.010
M/B 2 Sigma CSU:	0.309
MB MDC:	0.724
MB Numerical Performance Indicator:	-0.06
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS82411	**LCSD82411**
Count Date:	12/2/2024	12/2/2024
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	34.387	34.387
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.818	0.818
Target Conc. (pCi/L, g, F):	4.206	4.204
Uncertainty (Calculated):	0.206	0.206
Result (pCi/L, g, F):	4.108	3.819
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.982	0.970
Numerical Performance Indicator:	-0.19	-0.76
Percent Recovery:	97.67%	90.85%
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.:	LCS82411	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD82411	
Sample Result (pCi/L, g, F):	4.108	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.982	
Sample Duplicate Result (pCi/L, g, F):	3.819	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.970	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.410	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	7.23%	
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:

SVC 12/4/24

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

December 19, 2024

Trey Singleton
Southern Company
241 Ralp McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92766149

Dear Trey Singleton:

Enclosed are the analytical results for sample(s) received by the laboratory on November 26, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Peachtree Corners, GA

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
Becky Steever, Arcadis
Jessica Ware, Arcadis
Albert Zumbuhl, Arcadis

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92766149

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92766149

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92766149001	**YAT-YGWC-50**	Water	11/26/24 10:45	11/26/24 14:39
92766149002	**YAT-AMA-R6-FB-1**	Water	11/26/24 11:00	11/26/24 14:39
92766149003	**YAT-AMA-R6-EB-1**	Water	11/26/24 12:00	11/26/24 14:39
92766149004	**YAT-AMA-R6-FD-1**	Water	11/26/24 00:00	11/26/24 14:39

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92766149

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92766149001	**YAT-YGWC-50**	EPA 6010D	DRB	1
		EPA 6020B	CW1, MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92766149002	**YAT-AMA-R6-FB-1**	EPA 6010D	DRB	1
		EPA 6020B	CW1, MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92766149003	**YAT-AMA-R6-EB-1**	EPA 6010D	DRB	1
		EPA 6020B	CW1, MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92766149004	**YAT-AMA-R6-FD-1**	EPA 6010D	DRB	1
		EPA 6020B	CW1, MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3

PASI-A = Pace Analytical Services - Asheville
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92766149

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92766149001	**YAT-YGWC-50**					
EPA 6010D	Calcium	308	mg/L	5.0	12/03/24 19:28	
EPA 6020B	Antimony	0.00092J	mg/L	0.0030	12/09/24 19:51	
EPA 6020B	Arsenic	0.0045J	mg/L	0.0050	12/09/24 19:51	
EPA 6020B	Barium	0.019	mg/L	0.0050	12/09/24 19:51	
EPA 6020B	Beryllium	0.0037	mg/L	0.00050	12/09/24 19:51	
EPA 6020B	Boron	23.8	mg/L	2.5	12/10/24 16:27	M1
EPA 6020B	Cadmium	0.015	mg/L	0.00050	12/09/24 19:51	
EPA 6020B	Chromium	0.00041J	mg/L	0.0050	12/09/24 19:51	
EPA 6020B	Cobalt	0.0075	mg/L	0.0050	12/09/24 19:51	
EPA 6020B	Lead	0.00033J	mg/L	0.0010	12/09/24 19:51	
EPA 6020B	Lithium	0.0032J	mg/L	0.030	12/09/24 19:51	
EPA 6020B	Selenium	0.0022J	mg/L	0.0050	12/09/24 19:51	
SM 2540C-2015	Total Dissolved Solids	2010	mg/L	25.0	12/02/24 12:26	1g
EPA 300.0 Rev 2.1 1993	Chloride	10.5	mg/L	1.0	11/27/24 04:42	
EPA 300.0 Rev 2.1 1993	Fluoride	0.15	mg/L	0.10	11/27/24 04:42	
EPA 300.0 Rev 2.1 1993	Sulfate	1010	mg/L	25.0	11/27/24 09:31	
92766149002	**YAT-AMA-R6-FB-1**					
EPA 6020B	Chromium	0.00042J	mg/L	0.0050	12/09/24 20:07	
92766149003	**YAT-AMA-R6-EB-1**					
EPA 6020B	Barium	0.00025J	mg/L	0.0050	12/09/24 20:11	
EPA 6020B	Chromium	0.00038J	mg/L	0.0050	12/09/24 20:11	
92766149004	**YAT-AMA-R6-FD-1**					
EPA 6010D	Calcium	313	mg/L	5.0	12/03/24 19:33	
EPA 6020B	Antimony	0.00089J	mg/L	0.0030	12/09/24 20:15	
EPA 6020B	Arsenic	0.0047J	mg/L	0.0050	12/09/24 20:15	
EPA 6020B	Barium	0.018	mg/L	0.0050	12/09/24 20:15	
EPA 6020B	Beryllium	0.0036	mg/L	0.00050	12/09/24 20:15	
EPA 6020B	Boron	23.2	mg/L	2.5	12/10/24 16:39	
EPA 6020B	Cadmium	0.013	mg/L	0.00050	12/09/24 20:15	
EPA 6020B	Chromium	0.00041J	mg/L	0.0050	12/09/24 20:15	
EPA 6020B	Cobalt	0.0073	mg/L	0.0050	12/09/24 20:15	
EPA 6020B	Lead	0.00028J	mg/L	0.0010	12/09/24 20:15	
EPA 6020B	Lithium	0.0032J	mg/L	0.030	12/09/24 20:15	
EPA 6020B	Selenium	0.0018J	mg/L	0.0050	12/09/24 20:15	
SM 2540C-2015	Total Dissolved Solids	1980	mg/L	25.0	12/02/24 12:26	
EPA 300.0 Rev 2.1 1993	Chloride	10.4	mg/L	1.0	11/27/24 05:54	
EPA 300.0 Rev 2.1 1993	Fluoride	0.15	mg/L	0.10	11/27/24 05:54	
EPA 300.0 Rev 2.1 1993	Sulfate	1010	mg/L	25.0	11/27/24 09:48	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92766149

Sample: YAT-YGWC-50 **Lab ID: 92766149001** Collected: 11/26/24 10:45 Received: 11/26/24 14:39 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**308**	mg/L	5.0	0.61	5	12/02/24 15:02	12/03/24 19:28	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.00092J**	mg/L	0.0030	0.00038	1	12/05/24 17:00	12/09/24 19:51	7440-36-0	
Arsenic	**0.0045J**	mg/L	0.0050	0.0016	1	12/05/24 17:00	12/09/24 19:51	7440-38-2	
Barium	**0.019**	mg/L	0.0050	0.00019	1	12/05/24 17:00	12/09/24 19:51	7440-39-3	
Beryllium	**0.0037**	mg/L	0.00050	0.000026	1	12/05/24 17:00	12/09/24 19:51	7440-41-7	
Boron	**23.8**	mg/L	2.5	0.69	50	12/05/24 17:00	12/10/24 16:27	7440-42-8	M1
Cadmium	**0.015**	mg/L	0.00050	0.000041	1	12/05/24 17:00	12/09/24 19:51	7440-43-9	
Chromium	**0.00041J**	mg/L	0.0050	0.00015	1	12/05/24 17:00	12/09/24 19:51	7440-47-3	
Cobalt	**0.0075**	mg/L	0.0050	0.000098	1	12/05/24 17:00	12/09/24 19:51	7440-48-4	
Lead	**0.00033J**	mg/L	0.0010	0.000076	1	12/05/24 17:00	12/09/24 19:51	7439-92-1	
Lithium	**0.0032J**	mg/L	0.030	0.00028	1	12/05/24 17:00	12/09/24 19:51	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00035	1	12/05/24 17:00	12/09/24 19:51	7439-98-7	
Selenium	**0.0022J**	mg/L	0.0050	0.00092	1	12/05/24 17:00	12/09/24 19:51	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00020	1	12/05/24 17:00	12/09/24 19:51	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	12/09/24 09:00	12/09/24 12:11	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**2010**	mg/L	25.0	25.0	1		12/02/24 12:26		1g
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**10.5**	mg/L	1.0	0.60	1		11/27/24 04:42	16887-00-6	
Fluoride	**0.15**	mg/L	0.10	0.050	1		11/27/24 04:42	16984-48-8	
Sulfate	**1010**	mg/L	25.0	12.5	25		11/27/24 09:31	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92766149

Sample: YAT-AMA-R6-FB-1 **Lab ID: 92766149002** Collected: 11/26/24 11:00 Received: 11/26/24 14:39 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.12	1	12/02/24 15:02	12/03/24 14:51	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00038	1	12/05/24 17:00	12/09/24 20:07	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0016	1	12/05/24 17:00	12/09/24 20:07	7440-38-2	
Barium	ND	mg/L	0.0050	0.00019	1	12/05/24 17:00	12/09/24 20:07	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000026	1	12/05/24 17:00	12/09/24 20:07	7440-41-7	
Boron	ND	mg/L	0.050	0.014	1	12/05/24 17:00	12/10/24 16:06	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.000041	1	12/05/24 17:00	12/09/24 20:07	7440-43-9	
Chromium	**0.00042J**	mg/L	0.0050	0.00015	1	12/05/24 17:00	12/09/24 20:07	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.000098	1	12/05/24 17:00	12/09/24 20:07	7440-48-4	
Lead	ND	mg/L	0.0010	0.000076	1	12/05/24 17:00	12/09/24 20:07	7439-92-1	
Lithium	ND	mg/L	0.030	0.00028	1	12/05/24 17:00	12/09/24 20:07	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00035	1	12/05/24 17:00	12/09/24 20:07	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00092	1	12/05/24 17:00	12/09/24 20:07	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00020	1	12/05/24 17:00	12/09/24 20:07	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	12/09/24 09:00	12/09/24 12:14	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		12/02/24 12:26		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		11/27/24 02:27	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		11/27/24 02:27	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		11/27/24 02:27	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92766149

Sample: YAT-AMA-R6-EB-1 **Lab ID: 92766149003** Collected: 11/26/24 12:00 Received: 11/26/24 14:39 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.12	1	12/02/24 15:02	12/03/24 14:56	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00038	1	12/05/24 17:00	12/09/24 20:11	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0016	1	12/05/24 17:00	12/09/24 20:11	7440-38-2	
Barium	**0.00025J**	mg/L	0.0050	0.00019	1	12/05/24 17:00	12/09/24 20:11	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000026	1	12/05/24 17:00	12/09/24 20:11	7440-41-7	
Boron	ND	mg/L	0.050	0.014	1	12/05/24 17:00	12/10/24 16:10	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.000041	1	12/05/24 17:00	12/09/24 20:11	7440-43-9	
Chromium	**0.00038J**	mg/L	0.0050	0.00015	1	12/05/24 17:00	12/09/24 20:11	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.000098	1	12/05/24 17:00	12/09/24 20:11	7440-48-4	
Lead	ND	mg/L	0.0010	0.000076	1	12/05/24 17:00	12/09/24 20:11	7439-92-1	
Lithium	ND	mg/L	0.030	0.00028	1	12/05/24 17:00	12/09/24 20:11	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00035	1	12/05/24 17:00	12/09/24 20:11	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00092	1	12/05/24 17:00	12/09/24 20:11	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00020	1	12/05/24 17:00	12/09/24 20:11	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	12/09/24 09:00	12/09/24 12:30	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		12/02/24 12:26		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		11/27/24 02:44	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		11/27/24 02:44	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		11/27/24 02:44	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92766149

Sample: YAT-AMA-R6-FD-1 **Lab ID: 92766149004** Collected: 11/26/24 00:00 Received: 11/26/24 14:39 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**313**	mg/L	5.0	0.61	5	12/02/24 15:02	12/03/24 19:33	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.00089J**	mg/L	0.0030	0.00038	1	12/05/24 17:00	12/09/24 20:15	7440-36-0	
Arsenic	**0.0047J**	mg/L	0.0050	0.0016	1	12/05/24 17:00	12/09/24 20:15	7440-38-2	
Barium	**0.018**	mg/L	0.0050	0.00019	1	12/05/24 17:00	12/09/24 20:15	7440-39-3	
Beryllium	**0.0036**	mg/L	0.00050	0.000026	1	12/05/24 17:00	12/09/24 20:15	7440-41-7	
Boron	**23.2**	mg/L	2.5	0.69	50	12/05/24 17:00	12/10/24 16:39	7440-42-8	
Cadmium	**0.013**	mg/L	0.00050	0.000041	1	12/05/24 17:00	12/09/24 20:15	7440-43-9	
Chromium	**0.00041J**	mg/L	0.0050	0.00015	1	12/05/24 17:00	12/09/24 20:15	7440-47-3	
Cobalt	**0.0073**	mg/L	0.0050	0.000098	1	12/05/24 17:00	12/09/24 20:15	7440-48-4	
Lead	**0.00028J**	mg/L	0.0010	0.000076	1	12/05/24 17:00	12/09/24 20:15	7439-92-1	
Lithium	**0.0032J**	mg/L	0.030	0.00028	1	12/05/24 17:00	12/09/24 20:15	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00035	1	12/05/24 17:00	12/09/24 20:15	7439-98-7	
Selenium	**0.0018J**	mg/L	0.0050	0.00092	1	12/05/24 17:00	12/09/24 20:15	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00020	1	12/05/24 17:00	12/09/24 20:15	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	12/09/24 09:00	12/09/24 12:32	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**1980**	mg/L	25.0	25.0	1		12/02/24 12:26		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**10.4**	mg/L	1.0	0.60	1		11/27/24 05:54	16887-00-6	
Fluoride	**0.15**	mg/L	0.10	0.050	1		11/27/24 05:54	16984-48-8	
Sulfate	**1010**	mg/L	25.0	12.5	25		11/27/24 09:48	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92766149

QC Batch: 899535
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92766149001, 92766149002, 92766149003, 92766149004

METHOD BLANK: 4630664 Matrix: Water
Associated Lab Samples: 92766149001, 92766149002, 92766149003, 92766149004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	12/03/24 14:32	

LABORATORY CONTROL SAMPLE: 4630665

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.95J	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4630666 4630667

Parameter	Units	92766282002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	5100 ug/L	1	1	6.1	6.2	101	111	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92766149

QC Batch: 900605
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92766149001, 92766149002, 92766149003, 92766149004

METHOD BLANK: 4635874 Matrix: Water
Associated Lab Samples: 92766149001, 92766149002, 92766149003, 92766149004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00038	12/10/24 15:58	
Arsenic	mg/L	ND	0.0050	0.0016	12/10/24 15:58	
Barium	mg/L	ND	0.0050	0.00019	12/10/24 15:58	
Beryllium	mg/L	ND	0.00050	0.000026	12/10/24 15:58	
Boron	mg/L	ND	0.050	0.014	12/10/24 15:58	
Cadmium	mg/L	ND	0.00050	0.000041	12/10/24 15:58	
Chromium	mg/L	ND	0.0050	0.00015	12/10/24 15:58	
Cobalt	mg/L	ND	0.0050	0.000098	12/10/24 15:58	
Lead	mg/L	ND	0.0010	0.000076	12/10/24 15:58	
Lithium	mg/L	ND	0.030	0.00028	12/10/24 15:58	
Molybdenum	mg/L	ND	0.010	0.00035	12/10/24 15:58	
Selenium	mg/L	ND	0.0050	0.00092	12/10/24 15:58	
Thallium	mg/L	ND	0.0010	0.00020	12/10/24 15:58	

LABORATORY CONTROL SAMPLE: 4635875

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	101	80-120	
Arsenic	mg/L	0.1	0.10	100	80-120	
Barium	mg/L	0.1	0.10	102	80-120	
Beryllium	mg/L	0.1	0.10	102	80-120	
Boron	mg/L	1	1.1	110	80-120	
Cadmium	mg/L	0.1	0.099	99	80-120	
Chromium	mg/L	0.1	0.10	104	80-120	
Cobalt	mg/L	0.1	0.10	104	80-120	
Lead	mg/L	0.1	0.10	103	80-120	
Lithium	mg/L	0.1	0.10	103	80-120	
Molybdenum	mg/L	0.1	0.10	104	80-120	
Selenium	mg/L	0.1	0.099	99	80-120	
Thallium	mg/L	0.1	0.10	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4635876 4635877

Parameter	Units	92766149001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	0.00092J	0.1	0.1	0.097	0.098	96	97	75-125	1	20	
Arsenic	mg/L	0.0045J	0.1	0.1	0.11	0.11	106	106	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92766149

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4635876 4635877

Parameter	Units	92766149001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.019	0.1	0.1	0.12	0.12	105	106	75-125	0	20	
Beryllium	mg/L	0.0037	0.1	0.1	0.097	0.099	94	95	75-125	2	20	
Boron	mg/L	23.8	1	1	24.3	23.6	51	-17	75-125	3	20	M1
Cadmium	mg/L	0.015	0.1	0.1	0.11	0.11	96	97	75-125	1	20	
Chromium	mg/L	0.00041J	0.1	0.1	0.11	0.11	109	109	75-125	0	20	
Cobalt	mg/L	0.0075	0.1	0.1	0.11	0.12	107	109	75-125	1	20	
Lead	mg/L	0.00033J	0.1	0.1	0.088	0.090	88	90	75-125	2	20	
Lithium	mg/L	0.0032J	0.1	0.1	0.10	0.11	101	102	75-125	1	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.11	104	106	75-125	1	20	
Selenium	mg/L	0.0022J	0.1	0.1	0.11	0.11	106	108	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.091	0.093	91	93	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92766149

QC Batch: 900849
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92766149001, 92766149002, 92766149003, 92766149004

METHOD BLANK: 4637031 Matrix: Water
Associated Lab Samples: 92766149001, 92766149002, 92766149003, 92766149004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	12/09/24 11:54	

LABORATORY CONTROL SAMPLE: 4637032

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: 4637033 4637034

Parameter	Units	92766149002 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	0.0023	94	92	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92766149

QC Batch: 899190 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92766149001, 92766149002, 92766149003, 92766149004

METHOD BLANK: 4629489 Matrix: Water
Associated Lab Samples: 92766149001, 92766149002, 92766149003, 92766149004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	12/02/24 12:26	

LABORATORY CONTROL SAMPLE: 4629490

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	415	104	80-120	

SAMPLE DUPLICATE: 4629491

Parameter	Units	92766206001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	199	119	50	10	D6

SAMPLE DUPLICATE: 4629492

Parameter	Units	92766201003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	96.0	106	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92766149

QC Batch: 898938
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: 92766149001, 92766149002, 92766149003, 92766149004

METHOD BLANK: 4628114 Matrix: Water
Associated Lab Samples: 92766149001, 92766149002, 92766149003, 92766149004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	11/26/24 19:43	
Fluoride	mg/L	ND	0.10	0.050	11/26/24 19:43	
Sulfate	mg/L	ND	1.0	0.50	11/26/24 19:43	

LABORATORY CONTROL SAMPLE: 4628115

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.6	101	90-110	
Fluoride	mg/L	2.5	2.5	98	90-110	
Sulfate	mg/L	50	50.0	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4628116 4628117

Parameter	Units	92765742001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	147	50	50	187	189	81	84	90-110	1	10	M1
Fluoride	mg/L	ND	2.5	2.5	1.2	1.2	47	49	90-110	5	10	M1
Sulfate	mg/L	29.2	50	50	79.5	81.3	101	104	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4628118 4628119

Parameter	Units	92765759002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	3.5	50	50	55.0	56.2	103	106	90-110	2	10	
Fluoride	mg/L	0.095J	2.5	2.5	2.6	2.7	101	104	90-110	3	10	
Sulfate	mg/L	3.5	50	50	54.4	55.8	102	105	90-110	2	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92766149

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1g	Sample residue exceeded method SM 2540C reccommended 200mg
D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT AP-3, A, B/B', R6
Pace Project No.: 92766149

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92766149001	**YAT-YGWC-50**	EPA 3010A	899535	EPA 6010D	899627
92766149002	**YAT-AMA-R6-FB-1**	EPA 3010A	899535	EPA 6010D	899627
92766149003	**YAT-AMA-R6-EB-1**	EPA 3010A	899535	EPA 6010D	899627
92766149004	**YAT-AMA-R6-FD-1**	EPA 3010A	899535	EPA 6010D	899627
92766149001	**YAT-YGWC-50**	EPA 3005A	900605	EPA 6020B	900671
92766149002	**YAT-AMA-R6-FB-1**	EPA 3005A	900605	EPA 6020B	900671
92766149003	**YAT-AMA-R6-EB-1**	EPA 3005A	900605	EPA 6020B	900671
92766149004	**YAT-AMA-R6-FD-1**	EPA 3005A	900605	EPA 6020B	900671
92766149001	**YAT-YGWC-50**	EPA 7470A	900849	EPA 7470A	901229
92766149002	**YAT-AMA-R6-FB-1**	EPA 7470A	900849	EPA 7470A	901229
92766149003	**YAT-AMA-R6-EB-1**	EPA 7470A	900849	EPA 7470A	901229
92766149004	**YAT-AMA-R6-FD-1**	EPA 7470A	900849	EPA 7470A	901229
92766149001	**YAT-YGWC-50**	SM 2540C-2015	899190		
92766149002	**YAT-AMA-R6-FB-1**	SM 2540C-2015	899190		
92766149003	**YAT-AMA-R6-EB-1**	SM 2540C-2015	899190		
92766149004	**YAT-AMA-R6-FD-1**	SM 2540C-2015	899190		
92766149001	**YAT-YGWC-50**	EPA 300.0 Rev 2.1 1993	898938		
92766149002	**YAT-AMA-R6-FB-1**	EPA 300.0 Rev 2.1 1993	898938		
92766149003	**YAT-AMA-R6-EB-1**	EPA 300.0 Rev 2.1 1993	898938		
92766149004	**YAT-AMA-R6-FD-1**	EPA 300.0 Rev 2.1 1993	898938		

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain of Custody is a LEGAL DOCUMENT - Complete all relevant fields

WO# : 92766149

92766149

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd. Atlanta, GA 30308	Phone #:	205-346-3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-OTH-20241126	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP 3, A, B/5, R6		Purchase Order # (if applicable):	GPC8247 4-0002
		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: Standard TAT

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
Identify Container Preservative Type***: 2 1 1 2
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

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/III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/9320	Sample Comment	Preservation non-conformance identified for sample.
YAT-YGWC-50	WG	G	11/26/24	1045	--	--		5	1	X	X	X	X	See Remarks 001	
YAT-AMA-R6-FB-1	WG	G	11/26/24	1100	--	--		5	1	X	X	X	X	See Remarks 002	
YAT-AMA-R6-EB-1	WG	G	11/26/24	1200	--	--		5	1	X	X	X	X	See Remarks 003	
YAT-AMA-R6-FD-1	WG	G	11/26/24	--	--	--		5	1	X	X	X	X	See Remarks 004	
					--	--									

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, T

Collected By:
Printed Name: (Arcadis) David Paputy
Signature: (Arcadis)

Additional Instructions from Pace®:
Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time: 11/26/24 1439	Received by/Company: (Signature)	Date/Time: 11/26/24 1439	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: 1 of 1	

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORC-0019_v01_082123

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

aboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mech[illegible] ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power - Yates

Project #:

WO# : 92766149

PM: BV **Due Date: 12/13/24**

CLIENT: 92-GP-Yates

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: 11/26/24 DW

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 214

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 5.8 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): 5.8

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ 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	

MENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

T NOTIFICATION/RESOLUTION

on contacted: Date/Time:

roject Manager SCURF Review: Date:

roject Manager SRF Review: Date:

rax ID: 69614

Pace

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

WO#: 92766149

*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 # PM: BV Due Date: 12/13/24
CLIENT: 92-GP-Yates

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Client GA Power - Yates 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)	DG9H-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 (NH2)2SO4 (3.3-9.7)	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		1	1		2		1 ✓																							
2		1	1		2		1 ✓																							
3		1	1		2		1 ✓																							
4		1	1		2		1 ✓																							
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Qualtrax ID: 69614

Page 2 of 2

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

December 24, 2024

Trey Singleton
Southern Company
241 Ralp McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: YAT AP-3, A, B/B', R6- RADS
Pace Project No.: 92766154

Dear Trey Singleton:

Enclosed are the analytical results for sample(s) received by the laboratory on November 26, 2024. 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
Becky Steever, Arcadis
Jessica Ware, Arcadis
Albert Zumbuhl, Arcadis

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: YAT AP-3, A, B/B', R6- RADS
Pace Project No.: 92766154

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: YAT AP-3, A, B/B', R6- RADS
Pace Project No.: 92766154

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92766154001	**YAT-YGWC-50**	Water	11/26/24 10:45	11/26/24 14:39
92766154002	**YAT-AMA-R6-FB-1**	Water	11/26/24 11:00	11/26/24 14:39
92766154003	**YAT-AMA-R6-EB-1**	Water	11/26/24 12:00	11/26/24 14:39
92766154004	**YAT-AMA-R6-FD-1**	Water	11/26/24 00:00	11/26/24 14:39

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: YAT AP-3, A, B/B', R6- RADS
Pace Project No.: 92766154

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92766154001	**YAT-YGWC-50**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92766154002	**YAT-AMA-R6-FB-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92766154003	**YAT-AMA-R6-EB-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92766154004	**YAT-AMA-R6-FD-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: YAT AP-3, A, B/B', R6- RADS
Pace Project No.: 92766154

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92766154001	**YAT-YGWC-50**					
EPA 9315	Radium-226	0.285U ± 0.215 (0.395) C:92% T:NA	pCi/L		12/19/24 08:16	
EPA 9320	Radium-228	0.113U ± 0.311 (0.702) C:75% T:80%	pCi/L		12/18/24 11:26	
Total Radium Calculation	Total Radium	0.398U ± 0.526 (1.10)	pCi/L		12/20/24 15:12	
92766154002	**YAT-AMA-R6-FB-1**					
EPA 9315	Radium-226	0.0477U ± 0.141 (0.343) C:95% T:NA	pCi/L		12/19/24 08:16	
EPA 9320	Radium-228	0.298U ± 0.344 (0.721) C:78% T:87%	pCi/L		12/18/24 11:26	
Total Radium Calculation	Total Radium	0.346U ± 0.485 (1.06)	pCi/L		12/20/24 15:12	
92766154003	**YAT-AMA-R6-EB-1**					
EPA 9315	Radium-226	0.0769U ± 0.154 (0.356) C:94% T:NA	pCi/L		12/19/24 08:16	
EPA 9320	Radium-228	0.957 ± 0.415 (0.668) C:78% T:89%	pCi/L		12/18/24 11:27	
Total Radium Calculation	Total Radium	1.03 ± 0.569 (1.02)	pCi/L		12/20/24 15:12	
92766154004	**YAT-AMA-R6-FD-1**					
EPA 9315	Radium-226	0.227U ± 0.187 (0.349) C:93% T:NA	pCi/L		12/19/24 08:16	
EPA 9320	Radium-228	-0.226U ± 0.252 (0.650) C:77% T:88%	pCi/L		12/18/24 11:27	
Total Radium Calculation	Total Radium	0.227U ± 0.439 (0.999)	pCi/L		12/20/24 15:12	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADS
Pace Project No.: 92766154

Sample: YAT-YGWC-50 **Lab ID: 92766154001** Collected: 11/26/24 10:45 Received: 11/26/24 14:39 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	**0.285U ± 0.215 (0.395) C:92% T:NA**	pCi/L	12/19/24 08:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.113U ± 0.311 (0.702) C:75% T:80%**	pCi/L	12/18/24 11:26	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.398U ± 0.526 (1.10)**	pCi/L	12/20/24 15:12	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADS
Pace Project No.: 92766154

Sample: YAT-AMA-R6-FB-1 **Lab ID: 92766154002** Collected: 11/26/24 11:00 Received: 11/26/24 14:39 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	**0.0477U ± 0.141 (0.343) C:95% T:NA**	pCi/L	12/19/24 08:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.298U ± 0.344 (0.721) C:78% T:87%**	pCi/L	12/18/24 11:26	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.346U ± 0.485 (1.06)**	pCi/L	12/20/24 15:12	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADS
Pace Project No.: 92766154

Sample: YAT-AMA-R6-EB-1 **Lab ID: 92766154003** Collected: 11/26/24 12:00 Received: 11/26/24 14:39 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 ± 0.154 (0.356) C:94% T:NA**	pCi/L	12/19/24 08:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.957 ± 0.415 (0.668) C:78% T:89%**	pCi/L	12/18/24 11:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.03 ± 0.569 (1.02)**	pCi/L	12/20/24 15:12	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADS
Pace Project No.: 92766154

Sample: YAT-AMA-R6-FD-1 **Lab ID: 92766154004** Collected: 11/26/24 00:00 Received: 11/26/24 14:39 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	**0.227U ± 0.187 (0.349) C:93% T:NA**	pCi/L	12/19/24 08:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.226U ± 0.252 (0.650) C:77% T:88%**	pCi/L	12/18/24 11:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.227U ± 0.439 (0.999)**	pCi/L	12/20/24 15:12	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADS
Pace Project No.: 92766154

QC Batch: 714956
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92766154001, 92766154002, 92766154003, 92766154004

METHOD BLANK: 3482782 Matrix: Water
Associated Lab Samples: 92766154001, 92766154002, 92766154003, 92766154004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.534 ± 0.356 (0.664) C:75% T:90%	pCi/L	12/18/24 11:26	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT AP-3, A, B/B', R6- RADS
Pace Project No.: 92766154

QC Batch: 714959
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92766154001, 92766154002, 92766154003, 92766154004

METHOD BLANK: 3482804 Matrix: Water
Associated Lab Samples: 92766154001, 92766154002, 92766154003, 92766154004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.158 ± 0.165 (0.328) C:94% T:NA	pCi/L	12/19/24 08:15	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: YAT AP-3, A, B/B', R6- RADS
Pace Project No.: 92766154

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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT AP-3, A, B/B', R6- RADS
Pace Project No.: 92766154

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92766154001	**YAT-YGWC-50**	EPA 9315	714959		
92766154002	**YAT-AMA-R6-FB-1**	EPA 9315	714959		
92766154003	**YAT-AMA-R6-EB-1**	EPA 9315	714959		
92766154004	**YAT-AMA-R6-FD-1**	EPA 9315	714959		
92766154001	**YAT-YGWC-50**	EPA 9320	714956		
92766154002	**YAT-AMA-R6-FB-1**	EPA 9320	714956		
92766154003	**YAT-AMA-R6-EB-1**	EPA 9320	714956		
92766154004	**YAT-AMA-R6-FD-1**	EPA 9320	714956		
92766154001	**YAT-YGWC-50**	Total Radium Calculation	716942		
92766154002	**YAT-AMA-R6-FB-1**	Total Radium Calculation	716942		
92766154003	**YAT-AMA-R6-EB-1**	Total Radium Calculation	716942		
92766154004	**YAT-AMA-R6-FD-1**	Total Radium Calculation	716942		

CHAIN-OF-CUSTODY Analytical Request Document

Chain of Custody is a LEGAL DOCUMENT - Complete all relevant fields

Pace

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

WO#: 92766154

92766154

Company Name:	Southern Company
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308
Contact/Report To:	Trey Singleton
Phone #:	205-346-3317
E-Mail:	rosingle@southernco.com
Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-OTH-20241126
Project Name:	Georgia Power Yates
Invoice To:	
Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT AP 3, A, B/B', R6
Purchase Order # (if applicable):	GPC82474-0002
Quote #:	
Time Zone Collected:	[ ] AK [ ] PT [ ] MT [ ] CT [X] ET
County / State origin of sample(s):	Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested: Standard TAT

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

Identify Container Preservative Type***: 2, 1, 1, 2

Analysis Requested

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected Time	Composite End Date	Composite End Time	Res. Cl2	Plastic	Glass	App III/III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/9320	Sample Comment
YAT-YGWC-50	WG	G	11/26/24	1045	--	--		5	1	X	X	X	X	See Remarks 001
YAT-AMA-R6-FB-1	WG	G	11/26/24	1100	--	--		5	1	X	X	X	X	See Remarks 002
YAT-AMA-R6-EB-1	WG	G	11/26/24	1200	--	--		5	1	X	X	X	X	See Remarks 003
YAT AMA-R6-FD-1	WG	G	11/26/24	—	--	--		5	1	X	X	X	X	See Remarks 004
					--	--								

** Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample.

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B, 6010D: Ca
App IV Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, T

Collected By:
Printed Name: (Arcadis) David Prouty
Signature: (Arcadis) [signature]

Additional Instructions from Pace®:
Coolers: Thermometer ID: Correction Factor (°C): Obs Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
[signature]	11/26/24 1439	[signature]	11/26/24 1439
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other

Page: 1 of 1

ENV-FRM-CORQ-0019_v01_082123 ©

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

aboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power - Yates

Project #:

WO#: 92766154

PM: BV **Due Date: 12/20/24**

CLIENT: 92-GP-Yates

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Pace ☐ Other:

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 11/26/24 DW

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 214

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 5.8 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): 5.8

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ 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	

MENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

T NOTIFICATION/RESOLUTION

on contacted: Date/Time:

roject Manager SCURF Review: Date:

roject Manager SRF Review: Date:

rax ID: 69614

Pace

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

WO#: 92766154

PM: BV Due Date: 12/20/24

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 GA Power - Yates 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)	DG9H-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 (3.3-9.7)	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		1	1		2		1																							
2		1	1		2		1																							
3		1	1		2		1																							
4		1	1		2		1																							
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Qualtrax ID: 69614

Page 2 of 2

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	ZPC
Date:	12/16/2024
Worklist:	82771
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3482782
MB concentration:	0.534
M/B 2 Sigma CSU:	0.356
MB MDC:	0.664
MB Numerical Performance Indicator:	2.94
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS82771	LCSD82771
Count Date:	12/18/2024	12/18/2024
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	34.205	34.205
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.819	0.815
Target Conc. (pCi/L, g, F):	4.176	4.195
Uncertainty (Calculated):	0.205	0.206
Result (pCi/L, g, F):	5.409	5.590
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.170	1.192
Numerical Performance Indicator:	2.03	2.26
Percent Recovery:	129.51%	133.25%
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.:	LCS82771	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD82771	
Sample Result (pCi/L, g, F):	5.409	
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.170	
Sample Duplicate Result (pCi/L, g, F):	5.590	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.192	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-0.213	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	2.84%	
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:

12/20/24

Suc 12/20/24

Quality Control Sample Performance Assessment

Pace Analytical™
www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	12/16/2024
Worklist:	82772
Matrix:	W

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3482804
MB concentration:	0.158
M/B 2 Sigma CSU:	0.165
MB MDC:	0.328
MB Numerical Performance Indicator:	1.87
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS82772	LCSD82772
Count Date:	12/19/2024	12/19/2024
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.017	25.017
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.503	0.500
Target Conc. (pCi/L, g, F):	4.971	5.002
Uncertainty (Calculated):	0.234	0.235
Result (pCi/L, g, F):	5.100	5.165
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.981	0.995
Numerical Performance Indicator:	0.25	0.31
Percent Recovery:	102.59%	103.26%
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.:	LCS82772
Duplicate Sample I.D.	LCSD82772
Sample Result (pCi/L, g, F):	5.100
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.981
Sample Duplicate Result (pCi/L, g, F):	5.165
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.995
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	-0.092
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	0.65%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	N/A
% RPD Limit:	25%

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

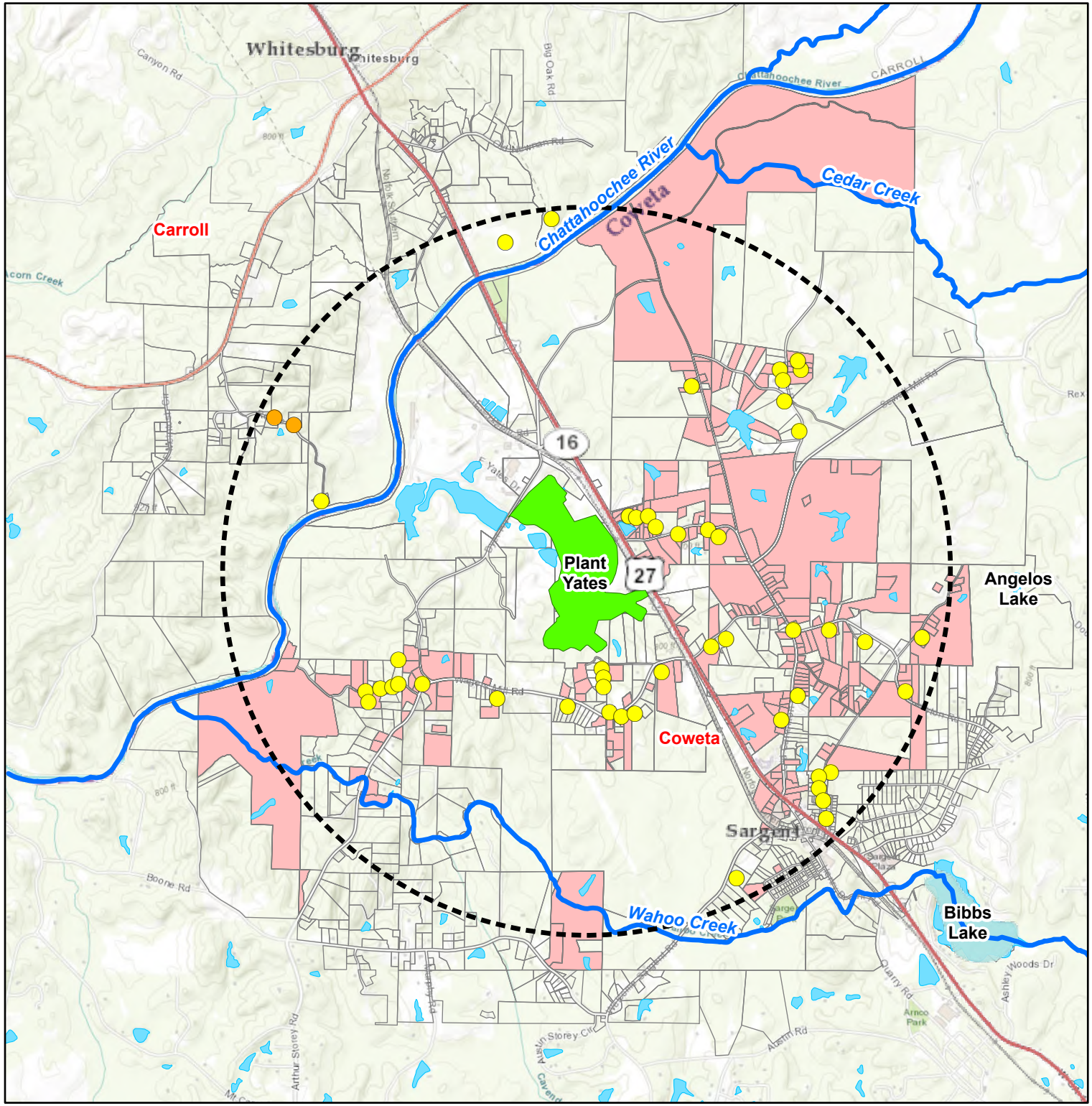
Comments:

SLC 12/20/24

LAM 12/20/24

Appendix D

EDR Geocheck® Water Well Survey Report



LEGEND

- Irrigation/Inactive Drinking Well
- Private Drinking Well
- 2-Mile Radius
- Plant Yates
- Major Waterways
- Lakes and Ponds
- Parcels Identified as Likely Having a Well
- Parcels

NOTE:
1) WELLS IDENTIFIED BY PARCEL LOCATION BUT THAT DO NOT HAVE AN EXACT LOCATION AVAILABLE ARE PRESENTED AS INSIDE THE 2-MILE RADIUS IF THE PARCEL STRADDLES THE INVESTIGATION BOUNDARY.

N
W E
S

0 2,000 4,000 8,000

GRAPHIC SCALE IN FEET

Georgia Power

PLANT YATES AP-2
NEWNAN, GA

WELL SURVEY

ARCADIS

FIGURE
1

PATH: T:_ENV\ga_power\GPC_Plant_Yates_Pro\2023\Drinking_Wells\Drinking_Wells.aprx\ Fig_1_Drinking_Well_Survey_Yates Last Saved by: tdrum 1/23/2024

Yates
704 Dyer Road
Newnan, GA 30263

Inquiry Number: 7826559.1s
November 19, 2024

The EDR GeoCheck® Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION **PAGE**

GEOCHECK ADDENDUM

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

GEOCHECK® - PHYSICAL SETTING SOURCE REPORT

TARGET PROPERTY ADDRESS

YATES
704 DYER ROAD
NEWNAN, GA 30263

TARGET PROPERTY COORDINATES

Latitude (North):	33.458172 - 33° 27' 29.42''
Longitude (West):	84.897356 - 84° 53' 50.48''
Universal Tranverse Mercator:	Zone 16
UTM X (Meters):	695420.4
UTM Y (Meters):	3703866.5
Elevation:	739 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	33084-D8 WHITESBURG, GA
Version Date:	1982

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

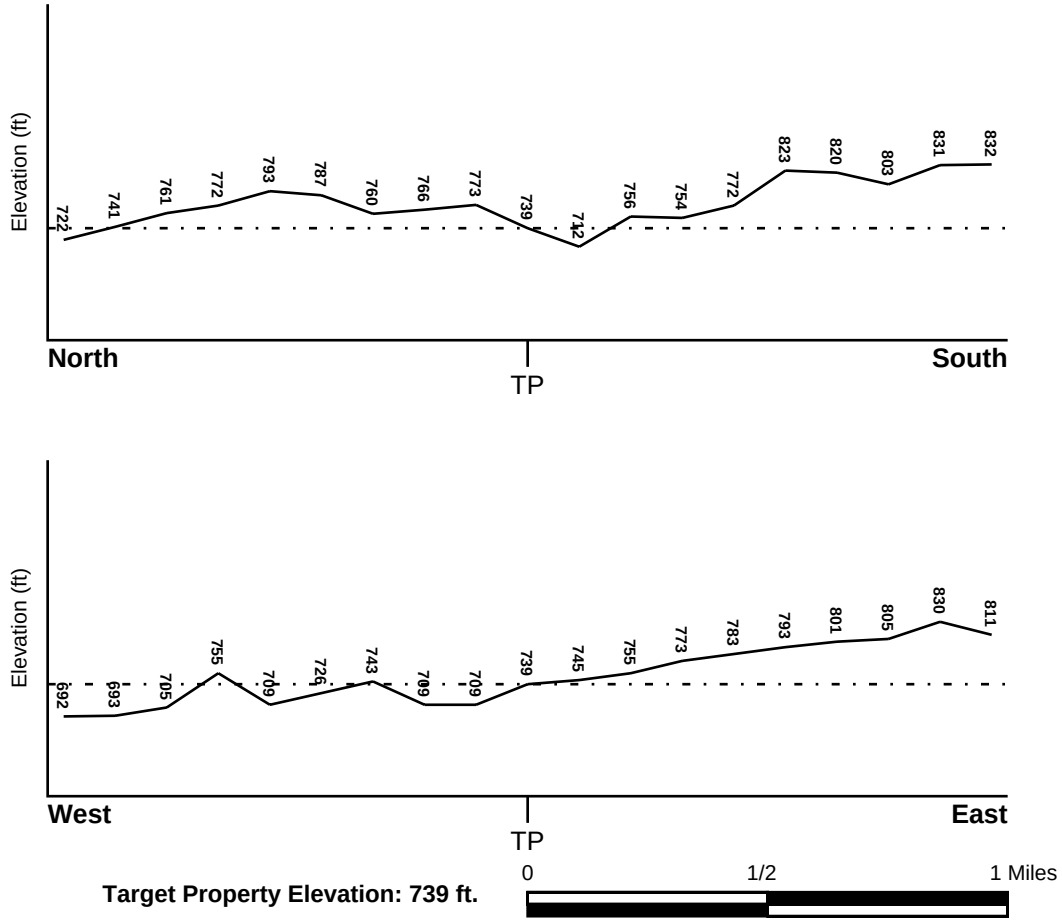
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General West

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Target Property Elevation: 739 ft.

0 1/2 1 Miles

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
13077C0110D	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
Not Reported	

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
WHITESBURG	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

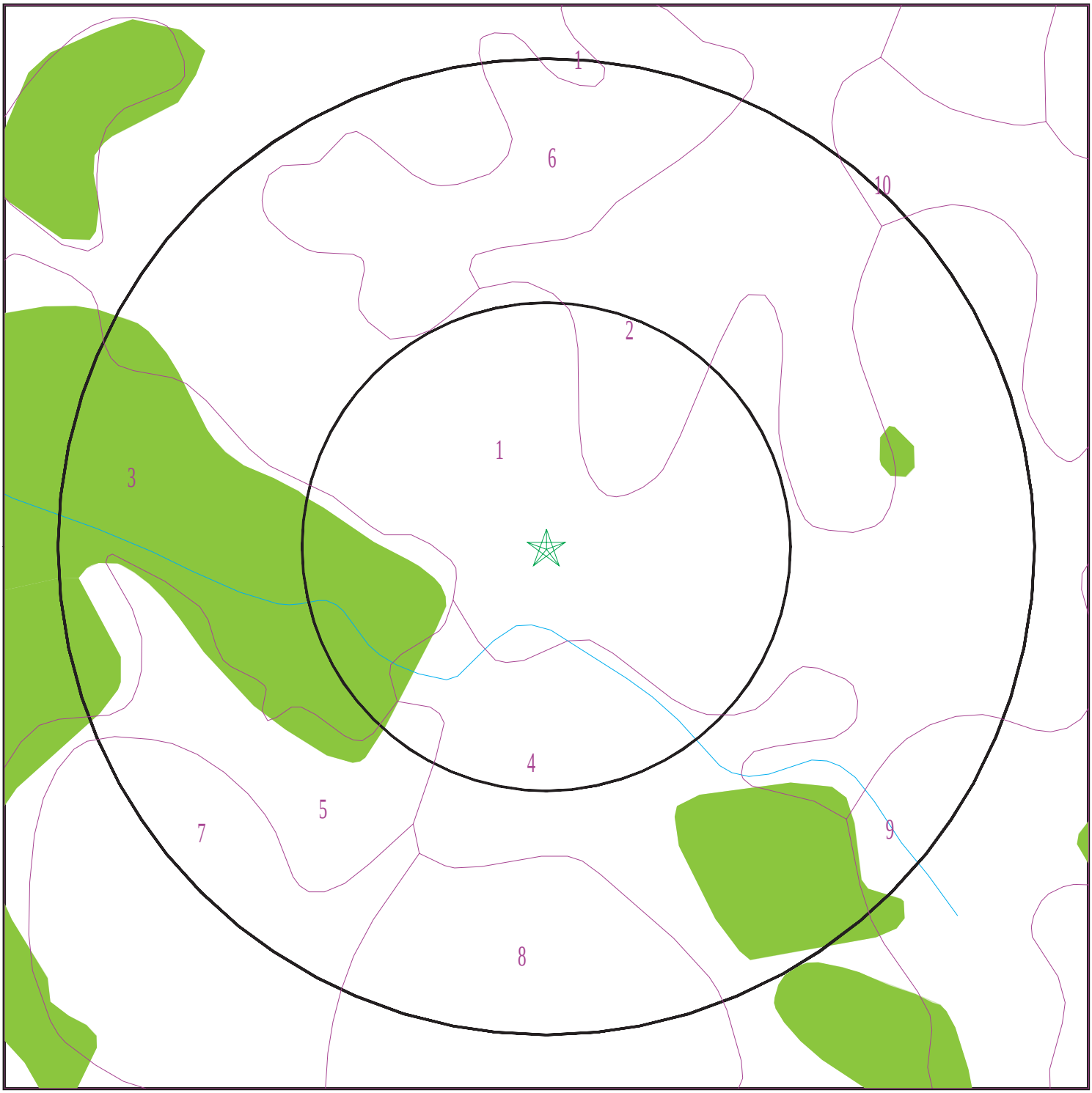
Era:	Paleozoic
System:	Ordovian
Series:	Lower Paleozoic granitic rocks
Code:	Pzg1 *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Plutonic and Intrusive Rocks

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 7826559.1s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	Yates	CLIENT:	ARCADIS U.S., Inc.
ADDRESS:	704 Dyer Road Newnan GA 30263	CONTACT:	Rebecca Steever
LAT/LONG:	33.458172 / 84.897356	INQUIRY #:	7826559.1s
		DATE:	November 19, 2024 11:40 am

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name:	Urban land
Soil Surface Texture:	
Hydrologic Group:	Not reported
Soil Drainage Class:	
Hydric Status: Unknown	
Corrosion Potential - Uncoated Steel:	Not Reported
Depth to Bedrock Min:	> 0 inches
Depth to Watertable Min:	> 0 inches

No Layer Information available.

Soil Map ID: 2

Soil Component Name:	Cecil
Soil Surface Texture:	sandy clay loam
Hydrologic Group:	Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.
Soil Drainage Class:	Well drained
Hydric Status: Not hydric	
Corrosion Potential - Uncoated Steel:	High
Depth to Bedrock Min:	> 0 inches
Depth to Watertable Min:	> 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	53 inches	72 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Elastic silt.	Max: 14 Min: 4	Max: 5.5 Min: 4.5
2	0 inches	5 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Elastic silt.	Max: 14 Min: 4	Max: 5.5 Min: 4.5
3	5 inches	53 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Elastic silt.	Max: 14 Min: 4	Max: 5.5 Min: 4.5

Soil Map ID: 3

Soil Component Name: Water

Soil Surface Texture: sandy clay loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class:
Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

Soil Map ID: 4

Soil Component Name: Riverview

Soil Surface Texture: loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 31 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	5 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 6 Min: 4.5
2	5 inches	33 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 6 Min: 4.5
3	33 inches	64 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 6 Min: 4.5

Soil Map ID: 5

Soil Component Name: Wedowee

Soil Surface Texture: sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 14 Min: 4	Max: 5.5 Min: 3.6
2	7 inches	9 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 14 Min: 4	Max: 5.5 Min: 3.6
3	9 inches	33 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 14 Min: 4	Max: 5.5 Min: 3.6
4	33 inches	42 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 14 Min: 4	Max: 5.5 Min: 3.6

Soil Map ID: 6

Soil Component Name: Cecil

Soil Surface Texture: sandy clay loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	53 inches	72 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Elastic silt.	Max: 14 Min: 4	Max: 5.5 Min: 4.5
2	0 inches	5 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Elastic silt.	Max: 14 Min: 4	Max: 5.5 Min: 4.5
3	5 inches	53 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Elastic silt.	Max: 14 Min: 4	Max: 5.5 Min: 4.5

Soil Map ID: 7

Soil Component Name: Wedowee

Soil Surface Texture: sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 14 Min: 4	Max: 5.5 Min: 3.6
2	7 inches	9 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 14 Min: 4	Max: 5.5 Min: 3.6
3	9 inches	33 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 14 Min: 4	Max: 5.5 Min: 3.6
4	33 inches	42 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 14 Min: 4	Max: 5.5 Min: 3.6

Soil Map ID: 8

Soil Component Name: Pacolet

Soil Surface Texture: sandy clay loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	5 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
2	5 inches	27 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5
3	27 inches	59 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 6 Min: 4.5

Soil Map ID: 9

Soil Component Name: Appling

Soil Surface Texture: sandy clay loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	51 inches	64 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 5.5 Min: 4.5
2	0 inches	5 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 5.5 Min: 4.5
3	5 inches	33 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 5.5 Min: 4.5
4	33 inches	51 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 5.5 Min: 4.5

Soil Map ID: 10

Soil Component Name: Appling

Soil Surface Texture: sandy clay loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	51 inches	64 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 5.5 Min: 4.5
2	0 inches	5 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 5.5 Min: 4.5
3	5 inches	33 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 5.5 Min: 4.5
4	33 inches	51 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 5.5 Min: 4.5

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	1.000
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A2	USGS40000263313	1/4 - 1/2 Mile NE
B5	USGS40000263319	1/4 - 1/2 Mile NNW
C7	USGS40000263338	1/2 - 1 Mile NNW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

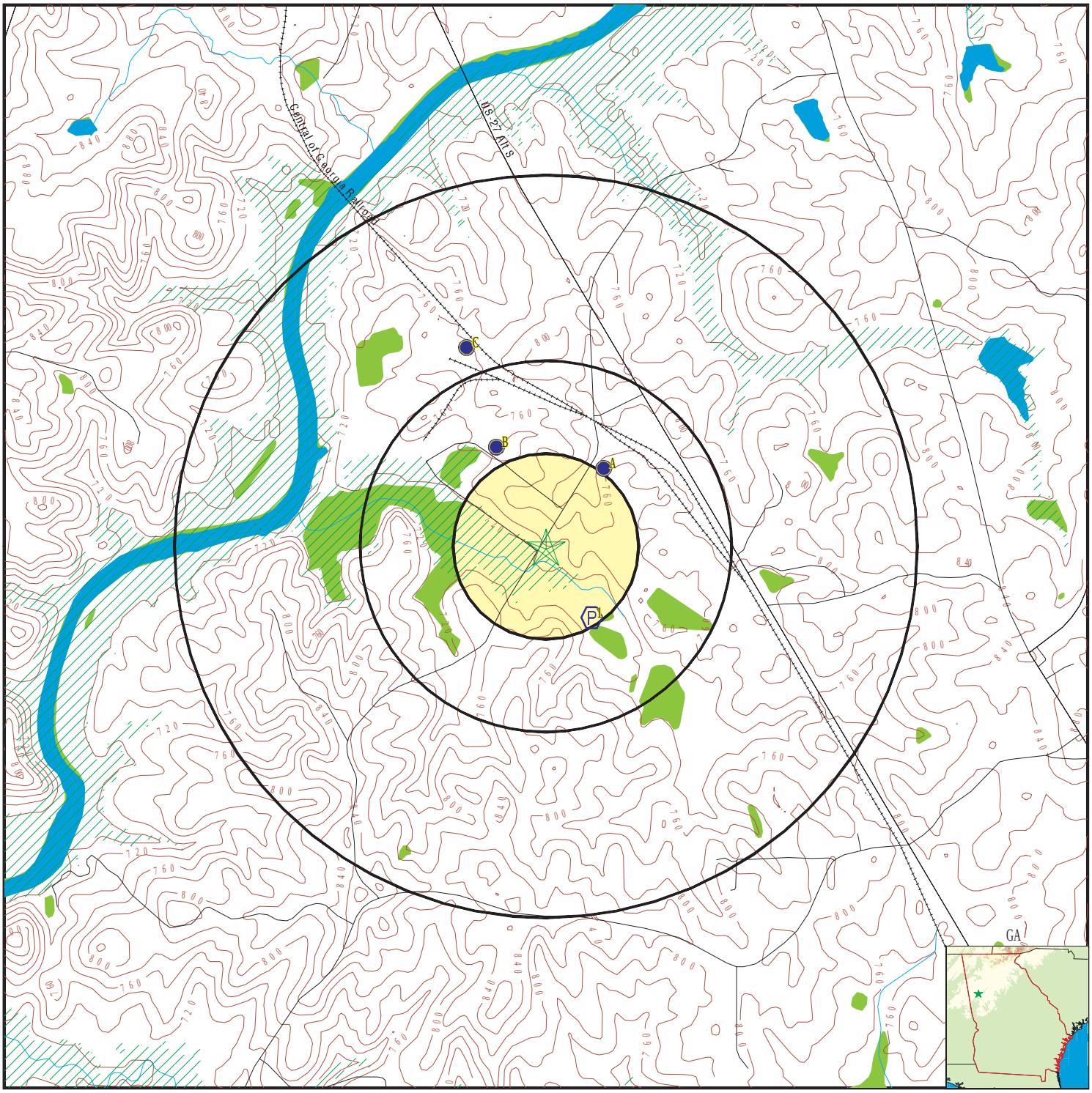
MAP ID	WELL ID	LOCATION FROM TP
1	GA0770020	1/8 - 1/4 Mile SSE

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A3	0000002623	1/4 - 1/2 Mile NE
B4	0000002624	1/4 - 1/2 Mile NNW
C6	0000002625	1/2 - 1 Mile NNW

PHYSICAL SETTING SOURCE MAP - 7826559.1s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- Wildlife Areas

SITE NAME:	Yates	CLIENT:	ARCADIS U.S., Inc.
ADDRESS:	704 Dyer Road Newnan GA 30263	CONTACT:	Rebecca Steever
LAT/LONG:	33.458172 / 84.897356	INQUIRY #:	7826559.1s
		DATE:	November 19, 2024 11:40 am

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

1
SSE
1/8 - 1/4 Mile
Lower

FRDS PWS **GA0770020**

Epa region:	04	State:	GA
Pwsid:	GA0770020	Pwsname:	GEORGIA POWER-PLANT YATES
Cityserved:	Not Reported	Stateserved:	GA
Zipserved:	Not Reported	Fipscounty:	13077
Status:	Closed	Retpopsrvd:	448
Pwssvcconn:	6	Psource longname:	Groundwater
Pwstype:	NTNCWS	Owner:	Private
Contact:	GEORGIA POWER-PLANT YATES	Contactorgname:	Not Reported
Contactphone:	706-253-2111	Contactaddress1:	GEORGIA POWER-PLANT YATES
Contactaddress2:	708 DYER ROAD	Contactcity:	NEWNAN
Contactstate:	GA	Contactzip:	302633733
Pwsactivitycode:	I		
Pwsid:	GA0770020	Facid:	101T
Facname:	DRILLED WELL #1	Factype:	Treatment_plant
Facactivitycode:	I	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP
Pwsid:	GA0770020	Facid:	102T
Facname:	DRILLED WELL #2	Factype:	Treatment_plant
Facactivitycode:	I	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP
Pwsid:	GA0770020	Facid:	103T
Facname:	DRILLED WELL #3	Factype:	Treatment_plant
Facactivitycode:	I	Trtobjective:	disinfection
Trtprocess:	hypochlorination, post	Factypecode:	TP
PWS ID:	GA0770020	PWS type:	Not Reported
PWS name:	Not Reported	PWS address:	Not Reported
PWS city:	Not Reported	PWS state:	Not Reported
PWS zip:	Not Reported	PWS ID:	GA0770020
Activity status:	Active	Date system activated:	Not Reported
Date system deactivated:	Not Reported	Retail population:	00000448
System name:	GEORGIA POWER-PLANT YATES	System address:	GEORGIA POWER PLANT YATES
System address:	708 DYER RD	System city:	NEWNAN
System state:	GA	System zip:	30263
Population served:	101 - 500 Persons	Treatment:	Treated
Latitude:	334500	Longitude:	0842312
Latitude:	332719	Longitude:	0845343

A2
NE
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000263313**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	06BB10	Type:	Well
Description:	PLANT YATES	HUC:	03130002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported

Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	19710501
Well Depth:	146	Well Depth Units:	ft
Well Hole Depth:	146	Well Hole Depth Units:	ft

A3
NE
1/4 - 1/2 Mile
Higher

GA WELLS **0000002623**

County code:	077	Well num:	06BB10
Remarks:	PLANT YATES	Lat:	332740
Lon:	0845341	Latlon datum:	NAD27
Alt:	760.00	Alt datum:	NGVD29
Depth:	146	Depth to casing:	42.00
Casing dia:	6.00	Casing matl:	S
Depth to top:	42.00	Depth to bot:	146.00
Opening type:	X	Constr date:	197105
Discharge:	100.00	Prim use:	N
Aquifer code:	Not Reported	Edr id:	0000002623

B4
NNW
1/4 - 1/2 Mile
Higher

GA WELLS **0000002624**

County code:	077	Well num:	06BB09
Remarks:	PLANT YATES	Lat:	332743
Lon:	0845359	Latlon datum:	NAD27
Alt:	740.00	Alt datum:	NGVD29
Depth:	307	Depth to casing:	43.00
Casing dia:	6.00	Casing matl:	S
Depth to top:	43.00	Depth to bot:	307.00
Opening type:	X	Constr date:	196509
Discharge:	115.00	Prim use:	N
Aquifer code:	Not Reported	Edr id:	0000002624

B5
NNW
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000263319**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	06BB09	Type:	Well
Description:	PLANT YATES	HUC:	03130002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	19650901
Well Depth:	307	Well Depth Units:	ft
Well Hole Depth:	307	Well Hole Depth Units:	ft

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

C6
NNW
1/2 - 1 Mile
Higher

GA WELLS **0000002625**

County code:	077	Well num:	06BB08
Remarks:	PLANT YATES	Lat:	332757
Lon:	0845404	Latlon datum:	NAD27
Alt:	760.00	Alt datum:	NGVD29
Depth:	378	Depth to casing:	34.00
Casing dia:	6.00	Casing matl:	S
Depth to top:	34.00	Depth to bot:	378.00
Opening type:	X	Constr date:	197105
Discharge:	50.00	Prim use:	N
Aquifer code:	Not Reported	Edr id:	0000002625

C7
NNW
1/2 - 1 Mile
Higher

FED USGS **USGS40000263338**

Organization ID:	USGS-GA	Organization Name:	USGS Georgia Water Science Center
Monitor Location:	06BB08	Type:	Well
Description:	PLANT YATES	HUC:	03130002
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	19710501
Well Depth:	378	Well Depth Units:	ft
Well Hole Depth:	378	Well Hole Depth Units:	ft

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for COWETA County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 30263

Number of sites tested: 9

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.989 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory
Source: Georgia GIS Clearinghouse
Telephone: 706-542-1581

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

OTHER STATE DATABASE INFORMATION

A listing of Private Water Well locations
Georgia Department of Public Health
Telephone: (404) 657-2700
A listing of Private Water Well locations

Georgia Public Supply Wells
Source: Georgia Department of Community Affairs
Telephone: 404-894-0127

USGS Georgia Water Wells
Source: USGS, Georgia District Office
Telephone: 770-903-9100

DNR Managed Lands
Source: Department of Natural Resources
Telephone: 706-557-3032
This dataset provides 1:24,000-scale data depicting boundaries of land parcels making up the public lands managed by the Georgia Department of Natural Resources (GDNR). It includes polygon representations of State Parks, State Historic Parks, State Conservation Parks, State Historic Sites, Wildlife Management Areas, Public Fishing Areas, Fish Hatcheries, Natural Areas and other specially-designated areas. The data were collected and located by the Georgia Department of Natural Resources. Boundaries were digitized from survey plats or other information.

RADON

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

STREET AND ADDRESS INFORMATION

November 2024
YGWC-50 and PZ-54D

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

November 21, 2024

Trey Singleton
Southern Company
241 Ralp McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: YAT- AP-3, A, B/B', R6
Pace Project No.: 92762666

Dear Trey Singleton:

Enclosed are the analytical results for sample(s) received by the laboratory on November 08, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Peachtree Corners, GA

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
Becky Steever, Arcadis
Jessica Ware, Arcadis
Albert Zumbuhl, Arcadis

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: YAT- AP-3, A, B/B', R6
Pace Project No.: 92762666

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: YAT- AP-3, A, B/B', R6
Pace Project No.: 92762666

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92762666001	**YAT-PZ-54D**	Water	11/07/24 13:48	11/08/24 11:25

Pace Analytical Services, LLC
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Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: YAT- AP-3, A, B/B', R6
Pace Project No.: 92762666

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92762666001	**YAT-PZ-54D**	EPA 6010D	AJM	1
		EPA 6020B	CW1, MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3

PASI-A = Pace Analytical Services - Asheville
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: YAT- AP-3, A, B/B', R6
Pace Project No.: 92762666

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92762666001	**YAT-PZ-54D**					
EPA 6010D	Calcium	60.6	mg/L	1.0	11/10/24 20:39	
EPA 6020B	Antimony	0.00082J	mg/L	0.0030	11/19/24 14:50	B
EPA 6020B	Arsenic	0.0015J	mg/L	0.0050	11/20/24 13:24	
EPA 6020B	Barium	0.042	mg/L	0.0050	11/19/24 14:50	
EPA 6020B	Beryllium	0.00014J	mg/L	0.00050	11/19/24 14:50	
EPA 6020B	Boron	1.8	mg/L	0.040	11/19/24 14:50	
EPA 6020B	Cadmium	0.00038J	mg/L	0.00050	11/19/24 14:50	
EPA 6020B	Cobalt	0.0040J	mg/L	0.0050	11/19/24 14:50	
EPA 6020B	Lead	0.00063J	mg/L	0.0010	11/19/24 14:50	
EPA 6020B	Lithium	0.027J	mg/L	0.030	11/19/24 14:50	
EPA 6020B	Molybdenum	0.017	mg/L	0.010	11/19/24 14:50	
SM 2540C-2015	Total Dissolved Solids	643	mg/L	25.0	11/12/24 13:45	
EPA 300.0 Rev 2.1 1993	Chloride	5.5	mg/L	1.0	11/09/24 19:21	
EPA 300.0 Rev 2.1 1993	Fluoride	0.090J	mg/L	0.10	11/09/24 19:21	
EPA 300.0 Rev 2.1 1993	Sulfate	174	mg/L	4.0	11/09/24 23:31	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT- AP-3, A, B/B', R6
Pace Project No.: 92762666

Sample: YAT-PZ-54D **Lab ID: 92762666001** Collected: 11/07/24 13:48 Received: 11/08/24 11:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**60.6**	mg/L	1.0	0.12	1	11/09/24 09:38	11/10/24 20:39	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.00082J**	mg/L	0.0030	0.00054	1	11/09/24 09:38	11/19/24 14:50	7440-36-0	B
Arsenic	**0.0015J**	mg/L	0.0050	0.00084	1	11/09/24 09:38	11/20/24 13:24	7440-38-2	
Barium	**0.042**	mg/L	0.0050	0.00047	1	11/09/24 09:38	11/19/24 14:50	7440-39-3	
Beryllium	**0.00014J**	mg/L	0.00050	0.000094	1	11/09/24 09:38	11/19/24 14:50	7440-41-7	
Boron	**1.8**	mg/L	0.040	0.012	1	11/09/24 09:38	11/19/24 14:50	7440-42-8	
Cadmium	**0.00038J**	mg/L	0.00050	0.00010	1	11/09/24 09:38	11/19/24 14:50	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	11/09/24 09:38	11/19/24 14:50	7440-47-3	
Cobalt	**0.0040J**	mg/L	0.0050	0.00032	1	11/09/24 09:38	11/19/24 14:50	7440-48-4	
Lead	**0.00063J**	mg/L	0.0010	0.00016	1	11/09/24 09:38	11/19/24 14:50	7439-92-1	
Lithium	**0.027J**	mg/L	0.030	0.0016	1	11/09/24 09:38	11/19/24 14:50	7439-93-2	
Molybdenum	**0.017**	mg/L	0.010	0.00062	1	11/09/24 09:38	11/19/24 14:50	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	11/09/24 09:38	11/19/24 14:50	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	11/09/24 09:38	11/19/24 14:50	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	11/19/24 08:00	11/19/24 13:46	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**643**	mg/L	25.0	25.0	1		11/12/24 13:45		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.5**	mg/L	1.0	0.60	1		11/09/24 19:21	16887-00-6	
Fluoride	**0.090J**	mg/L	0.10	0.050	1		11/09/24 19:21	16984-48-8	
Sulfate	**174**	mg/L	4.0	2.0	4		11/09/24 23:31	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT- AP-3, A, B/B', R6
Pace Project No.: 92762666

QC Batch: 894834
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92762666001

METHOD BLANK: 4607097 Matrix: Water
Associated Lab Samples: 92762666001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	11/11/24 15:50	

LABORATORY CONTROL SAMPLE: 4607098

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.92J	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4607099 4607100

Parameter	Units	92762364001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	ND	1	1	1.8	1.7	95	90	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT- AP-3, A, B/B', R6
Pace Project No.: 92762666

QC Batch: 894835
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92762666001

METHOD BLANK: 4607101 Matrix: Water
Associated Lab Samples: 92762666001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	0.00071J	0.0030	0.00054	11/19/24 13:24	
Arsenic	mg/L	ND	0.0050	0.00084	11/19/24 13:24	
Barium	mg/L	ND	0.0050	0.00047	11/19/24 13:24	
Beryllium	mg/L	ND	0.00050	0.000094	11/19/24 13:24	
Boron	mg/L	ND	0.040	0.012	11/19/24 13:24	
Cadmium	mg/L	ND	0.00050	0.00010	11/19/24 13:24	
Chromium	mg/L	ND	0.0050	0.0019	11/19/24 13:24	
Cobalt	mg/L	ND	0.0050	0.00032	11/19/24 13:24	
Lead	mg/L	ND	0.0010	0.00016	11/19/24 13:24	
Lithium	mg/L	ND	0.030	0.0016	11/19/24 13:24	
Molybdenum	mg/L	ND	0.010	0.00062	11/19/24 13:24	
Selenium	mg/L	ND	0.0050	0.00096	11/19/24 13:24	
Thallium	mg/L	ND	0.0010	0.00038	11/19/24 13:24	

LABORATORY CONTROL SAMPLE: 4607102

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.098	98	80-120	
Arsenic	mg/L	0.1	0.099	99	80-120	
Barium	mg/L	0.1	0.10	101	80-120	
Beryllium	mg/L	0.1	0.10	102	80-120	
Boron	mg/L	1	1.1	107	80-120	
Cadmium	mg/L	0.1	0.098	98	80-120	
Chromium	mg/L	0.1	0.098	98	80-120	
Cobalt	mg/L	0.1	0.098	98	80-120	
Lead	mg/L	0.1	0.10	101	80-120	
Lithium	mg/L	0.1	0.11	106	80-120	
Molybdenum	mg/L	0.1	0.10	101	80-120	
Selenium	mg/L	0.1	0.097	97	80-120	
Thallium	mg/L	0.1	0.10	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4607103 4607104

Parameter	Units	92762623001 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	0.098	96	97	75-125	1	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	100	102	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT- AP-3, A, B/B', R6
Pace Project No.: 92762666

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4607103 4607104

Parameter	Units	92762623001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	277 ug/L	0.1	0.1	0.37	0.39	97	110	75-125	4	20	
Beryllium	mg/L	0.80J ug/L	0.1	0.1	0.10	0.10	102	102	75-125	0	20	
Boron	mg/L	ND	1	1	1.1	1.0	106	103	75-125	3	20	
Cadmium	mg/L	ND	0.1	0.1	0.097	0.10	96	101	75-125	4	20	
Chromium	mg/L	ND	0.1	0.1	0.11	0.11	105	104	75-125	1	20	
Cobalt	mg/L	6.0J ug/L	0.1	0.1	0.11	0.11	103	103	75-125	0	20	
Lead	mg/L	0.19J ug/L	0.1	0.1	0.10	0.099	100	99	75-125	1	20	
Lithium	mg/L	3.8J ug/L	0.1	0.1	0.11	0.11	103	103	75-125	0	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	100	101	75-125	1	20	
Selenium	mg/L	ND	0.1	0.1	0.097	0.098	96	97	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.098	0.098	98	97	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT- AP-3, A, B/B', R6
Pace Project No.: 92762666

QC Batch: 896849
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92762666001

METHOD BLANK: 4616941 Matrix: Water
Associated Lab Samples: 92762666001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	11/19/24 12:51	

LABORATORY CONTROL SAMPLE: 4616942

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0025	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4616943 4616944

Parameter	Units	92762188002 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	0.0025	103	100	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT- AP-3, A, B/B', R6
Pace Project No.: 92762666

QC Batch: 895288
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92762666001

METHOD BLANK: 4608785 Matrix: Water
Associated Lab Samples: 92762666001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	11/12/24 13:42	

LABORATORY CONTROL SAMPLE: 4608786

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	418	104	80-120	

SAMPLE DUPLICATE: 4608787

Parameter	Units	92762733002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1360	1350	1	10	

SAMPLE DUPLICATE: 4608788

Parameter	Units	92762733009 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	362	379	5	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT- AP-3, A, B/B', R6
Pace Project No.: 92762666

QC Batch: 894869
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: 92762666001

METHOD BLANK: 4607215 Matrix: Water
Associated Lab Samples: 92762666001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	11/09/24 13:20	
Fluoride	mg/L	ND	0.10	0.050	11/09/24 13:20	
Sulfate	mg/L	ND	1.0	0.50	11/09/24 13:20	

LABORATORY CONTROL SAMPLE: 4607216

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.2	102	90-110	
Fluoride	mg/L	2.5	2.6	104	90-110	
Sulfate	mg/L	50	51.1	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4607217 4607218

Parameter	Units	92762627008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	9.9	50	50	60.5	61.1	101	102	90-110	1	10	
Fluoride	mg/L	0.053J	2.5	2.5	2.7	2.7	106	107	90-110	1	10	
Sulfate	mg/L	17.9	50	50	56.5	68.2	77	101	90-110	19	10	M1,R1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4607219 4607220

Parameter	Units	92762080001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	51.8	50	50	84.8	85.1	66	67	90-110	0	10	M1
Fluoride	mg/L	ND	2.5	2.5	2.6	2.6	104	103	90-110	1	10	
Sulfate	mg/L	24.0	50	50	62.3	74.6	77	101	90-110	18	10	M1,R1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: YAT- AP-3, A, B/B', R6
Pace Project No.: 92762666

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

B	Analyte was detected in the associated method blank.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT- AP-3, A, B/B', R6
Pace Project No.: 92762666

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92762666001	**YAT-PZ-54D**	EPA 3010A	894834	EPA 6010D	894889
92762666001	**YAT-PZ-54D**	EPA 3005A	894835	EPA 6020B	894904
92762666001	**YAT-PZ-54D**	EPA 7470A	896849	EPA 7470A	896905
92762666001	**YAT-PZ-54D**	SM 2540C-2015	895288		
92762666001	**YAT-PZ-54D**	EPA 300.0 Rev 2.1 1993	894869		

WO# : 92762666

92762666

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

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-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-3, A, B/B', RB		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other

Regulatory Program (DW, NCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

Specify Container Size **: 3 3 2 1

Identify Container Preservative Type***: 2 1 1 2

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

* 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), Vacuum (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment	Preservation Non-conformance identified for sample
YAT-PZ-54D	WG	G	11/7/24	1348				5		X	X	X	X	See Remarks	
~~YAT-AMA-RB-EB-1~~ AP	~~WG~~	~~G~~						~~5~~		~~X~~	~~X~~	~~X~~	X	See Remarks	
~~YAT-AMA-RB-FB-1~~ AP	~~WG~~	~~G~~						~~5~~		X	X	X	~~X~~	See Remarks	
~~YAT-AMA-RB-EB-2~~ AP	~~WG~~	~~G~~						5		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

Collected By:
Printed Name: [Arcadis]
Signature: [Arcadis]

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	11/8/24 1125	MTW	11/8/24 1125
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

Page: of

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

Effective Date: 05/24/2024

Laboratory receiving samples: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

WO# : 92762666

Project #:

PM: BV **Due Date: 11/22/24**

CLIENT: 92-GP-Yates

Sample Condition Upon Receipt

Client Name: Southern Company ☑ Client

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Other:____ ☐ Pace

Custody Seal Present? ☒ Yes ☐ No Seals Intact? ☒ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: Hcrw 11/8/24

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☐ N/A

Thermometer: ☐ IR Gun ID: 230

Type of Ice: ☒ Wet ☐ Blue ☐ None

Cooler Temp: 2.6

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): 2.6

USDA Regulated Soil (☐ N/A, water sample) Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☒ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☒ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☒ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☒ No	☐ N/A	4.
Sufficient Volume?	☒ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☒ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☒ Yes	☐ No	☐ N/A	
Containers Intact?	☒ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☒ N/A	8.
Sample Labels Match COC?	☒ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: 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:

Qualtrax ID: 69614

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

WO# : 92762666

PM: BV Due Date: 11/22/24

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 Southern Comp Profile/EZ (Circle one) 16561 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)	DG9H-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		1	1				1																						
2																													
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Appendix E

Statistical Analysis

Appendix III Statistically Significant Increase Summary (February 2024)

Appendix III Parameter	Monitoring Wells
Boron	YGWC-23S, YGWC-38, YGWC-41, YGWC-42, YGWC-43
Calcium	YGWC-38, YGWC-42
Sulfate	YGWC-38, YGWC-42
Total Dissolved Solids	YGWC-38, YGWC-42

Appendix III Statistically Significant Increase Summary (August 2024)

Appendix III Parameter	Monitoring Wells
Boron	YGWC-23S, YGWC-38, YGWC-41, YGWC-42, YGWC-43
Calcium	YGWC-38, YGWC-42, YGWC-36A
Sulfate	YGWC-38, YGWC-42, YGWC-43, YGWC-36A
Total Dissolved Solids	YGWC-38, YGWC-42, YGWC-43, YGWC-36A

February 2024

GROUNDWATER STATS CONSULTING

August 30, 2024

Southern Company Services
Attn: Ms. Lauren Hartley
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, GA 30308-3374

Re: Plant Yates Ash Management Area (AMA) and R6 CCR Landfill
February 2024 Statistical Analysis

Dear Ms. Hartley,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the February 2024 semi-annual Groundwater Detection and Assessment Monitoring statistical analysis for Georgia Power Company's Plant Yates Ash Management Area (AMA) and R6 CCR Landfill. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals from Electric Utilities (CCR Rule, 2015), the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management Chapter 391-3-4-.10, and follows the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Sampling for the Appendix III parameters began in 2016, and at least 8 background samples were collected at each of the groundwater monitoring wells. Semi-annual sampling of the majority of Appendix IV constituents has been performed for several years in accordance with the Georgia Department of Natural Resources, Environmental Protection Division groundwater monitoring regulations. A list of all parameters is provided below.

The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:**
  - **AP-1:** YGWA-47
  - **AP-2:** YGWA-1D, YGWA-1I, YGWA-2I, YGWA-3D, YGWA-3I, YGWA-14S and, YGWA-30I
  - **Gypsum Landfill:** GWA-2
  - **AMA-R6:** YGWA-17S, YGWA-18I, YGWA-18S, YGWA-20S, YGWA-21I, YGWA-39, YGWA-40, YGWA-4I, YGWA-5D, and YGWA-5I
- **Downgradient wells:** YGWC-23S, YGWC-24SB, YGWC-36A, YGWC-38, YGWC-41, YGWC-42, YGWC-43, YGWC-49, and YGWC-50
- **Assessment wells:** YAMW-1, YAMW-2, YAMW-3, YAMW-4, YAMW-5, PZ-35, PZ-37, PZ-37D, PZ-51, and PZ-52D

Data from downgradient and assessment wells are evaluated with confidence intervals for the Appendix IV constituents when a minimum of 4 samples is available, and data from downgradient wells are evaluated with prediction limits for the Appendix III parameters when a minimum of 8 samples is available. Downgradient well YGWC-50 was first sampled during the August 2023 event; therefore, data from this well was only plotted on time series and box plots. An additional sample was collected in December 2023 along with the February 2024 sample event for all constituents except pH and combined radium 226 + 228; and this well has been sampled a maximum of 3 times.

Downgradient well YGWC-24SA was installed in June 2020 as a replacement well for YGWC-24S; however, it was abandoned and replacement well YGWC-24SB was installed in late 2022. YGWC-24SB was first sampled in February 2023. Well YGWC-36A was installed in September 2020 as a replacement well for YGWC-36 to supplement existing data for each constituent.

In the current analysis, reported observations from the February 2024 sample event for Appendix III constituents at YGWC-24SB are compared to interwell prediction limits for Appendix III constituents. Historical data from wells YGWC-24, YGWC-24SA, and YGWC-24SB are combined with well YGWC-24SB and data from wells YGWC-36 and YGWC-36A are combined with well YGWC-36A. Throughout this report, wells YGWC-24SB and YGWC-36A refer to the respective combined data from the aforementioned wells.

When a minimum of 8 samples have been collected from new well YGWC-24SB, the Mann-Whitney test of medians will be used to compare newer observations to historical observations for Append IV constituents and evaluate whether the medians of data are statistically similar. In cases where statistically significant differences are identified at the 99% confidence level, the historical record is truncated so that only data from the new wells, which may be more representative of present-day groundwater quality, are

evaluated for the Appendix IV constituents in the confidence interval comparisons to respective Groundwater Protection Standards. This evaluation was previously performed for well YGWC-3A and is discussed below.

All data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Kristina Rayner, Founder and Senior Statistician to Groundwater Stats Consulting.

The CCR program consists of the constituents listed below. The terms "parameters" and "constituents" are used interchangeably.

- **Appendix III** (Detection Monitoring) **-** boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **Appendix IV** (Assessment Monitoring) **–** antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A summary of Appendix IV downgradient and assessment well/constituent pairs containing 100% non-detects follows this letter.

Combined upgradient well data from all units at Plant Yates are utilized to construct statistical limits for Appendix III and IV parameters.

For all constituents, a substitution of the most recent reporting limit is used for non-detect data and this generally gives the most conservative limit in each case. For interwell prediction and tolerance limits, a single reporting limit substitution is used across upgradient wells for a given parameter. Regarding the case of cobalt, due to varying detection limits in individual wells, the most recent reporting limit of 0.005 mg/L was substituted across all wells for all calculations and reports. During this event, elevated reporting limits occurred for beryllium, boron, and lithium due to higher dilution factors at some wells; therefore, current reporting limits of 0.0005 mg/L, 0.04 mg/L, and 0.03 mg/L were substituted across all wells for each respective constituent.

Time series plots for Appendix III and IV parameters at all wells are provided for the purpose of screening data at these wells (Figure A). Additionally, a separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells. Values in background which have been flagged as outliers may be seen in a

lighter font and as a disconnected symbol on the graphs. A summary of flagged outliers follows this report (Figure C).

During previous screenings, data at all wells for constituents detected in downgradient wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. A power curve was previously provided and demonstrated that the selected statistical methods for the parameters listed above comply with the USEPA Unified Guidance and the Georgia Environmental Protection Division Rules for Solid Waste Management Chapter 391-3-4-.10. The EPA suggests the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations.

Summary of Statistical Methods – Appendix III and IV Parameters

Based on the April 2019 evaluation and state and federal regulatory requirements described below, the following methods were selected for Appendix III and IV constituents:

- Appendix III: Interwell prediction limits, combined with a 1-of-2 resample plan for boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- Appendix IV: Confidence intervals for antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. Parametric prediction limits (or tolerance limits or confidence intervals as applicable) are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are non-detects, a nonparametric test is utilized. While the false positive rate associated with the parametric limits is based on an annual 10% (5% per semi-annual event) as recommended by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric limits is dependent upon the available background sample size, number of future comparisons, and verification resample plan. The following approaches are used for handling non-detects (USEPA, 2009):

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for

non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.

- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data for parametric limits. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data during each event after careful screening for any new outliers. In some cases, the earlier portion of data are deselected prior to construction of limits to provide sensitive limits that will rapidly detect changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs.

Summary of Background Screening Conducted in April 2019

Outlier Analysis

Time series plots were used to identify suspected outliers, or extreme values that would result in limits that are not representative of the current background data population. Suspected outliers at all wells for Appendix III and Appendix IV parameters were formally tested using Tukey's box plot method and, when identified, flagged in the computer database with "o" and deselected prior to construction of statistical limits.

Using the Tukey box plot method, several outliers were identified. When the most recent value is identified as an outlier, values are not flagged in the database at this time as they may represent a possible trend. If future values do not remain at similar concentrations, these values will be flagged as outliers and deselected. Several low values exist in the data sets and appear on the graphs as possible low outliers relative to the laboratory's Practical Quantitation Limit. However, these values are observed trace values (i.e., measurements reported by the laboratory between the Method Detection Limit and the Practical Quantitation Limit) and, therefore, were not flagged as outliers.

During the time of the screening, none of the outliers identified by Tukey's method were flagged in the database as all values were either similar to remaining measurements within

the same well and neighboring wells, or the values were reported non-detects. Subsequently, when all upgradient wells were pooled to construct statistical limits, one detected value of 6.3 s.u. for pH at well YGWA-47 (an upgradient well from AP-1) was flagged as an outlier because it was unusually high during a single event compared to all other values at neighboring wells. When any values are flagged in the database as outliers, they are plotted in a disconnected and lighter symbol on the time series graph. The accompanying data pages will display the flagged value in a lighter font as well. A substitution of the most recent reporting limit was applied when varying detection limits existed in data. When the reporting limit was higher than the CCR-rule specified levels discussed below, non-detects were substituted with one half the reporting limit.

Seasonality

No obvious seasonal patterns were observed on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were made to the data. When seasonal patterns are observed, data may be deseasonalized so that the resulting limits will correctly account for the seasonality as a predictable pattern rather than random variation or a release.

Trend Test Evaluation

While trends may be identified by visual inspection, a quantification of the trend and its significance is needed. The Sen's Slope/Mann Kendall trend test was used to evaluate all data at each well to identify statistically significant increasing or decreasing trends and the results of those findings were submitted with the screening. In the absence of suspected contamination, significant trending data are typically not included as part of the background data used for construction of prediction limits. This step serves to eliminate the trend and, thus, reduce variation in background. When statistically significant decreasing trends are present, all available data are evaluated to determine whether earlier concentration levels are significantly different than current reported concentrations and will be deselected as necessary. When any records of data are truncated for the reasons above, a summary report will be provided to show the date ranges used in construction of the statistical limits.

The results of the trend analyses showed several statistically significant decreasing and increasing trends for the Appendix III parameters. Most of the trends noted were relatively low in magnitude when compared to average concentrations, and the background time period was short with only two years of record, making it difficult to separate trends from normal year-to-year variation; therefore, no adjustments were made to the data sets at

that time. If the observed decreasing or increasing trends persist over a longer time frame, some records may need to be truncated.

Appendix III – Determination of Spatial Variation

The Analysis of Variance (ANOVA) was used to statistically evaluate differences in average concentrations among upgradient wells, which assists in identifying the most appropriate statistical approach. Interwell tests, which compare downgradient well data to statistical limits constructed from pooled upgradient well data, are appropriate when average concentrations are similar across upgradient wells. Intrawell tests, which compare compliance data from a single well to screened historical data within the same well, are appropriate when upgradient wells exhibit spatial variation; when statistical limits constructed from upgradient wells are not representative of the current background data population; and when downgradient water quality is unimpacted compared to upgradient water quality for the same parameter.

The ANOVA identified variation among upgradient well data for all Appendix III parameters. These constituents were further evaluated during the screening for the appropriateness of intrawell or interwell methods for each constituent. However, interwell methods will be used for all Appendix III constituents in accordance with Georgia EPD requirements.

Statistical Analysis of Appendix III Parameters – February 2024

All Appendix III parameters were analyzed using interwell prediction limits. Background (upgradient) well data were reassessed for potential outliers during this analysis. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. During this analysis, the data were not normally distributed when constructing the statistical limit for TDS; therefore, the highest value observed during the February 2024 event at upgradient well YGWA-5D was flagged for Appendix III parameters in order to maintain statistical limits that are conservative from a regulatory perspective. A summary of flagged outliers follows this report (Figure C).

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through February 2024 (Figure D). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The February 2024 sample from each downgradient well is compared to the background limit to determine whether initial exceedances are present.

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When a resample confirms the initial exceedance, a statistically significant increase is identified and further research would be required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result and, therefore, no exceedance is noted and no further action is necessary. If no resample is collected, the original result is considered a confirmed exceedance. A summary table of the interwell prediction limits follows this letter (Figure D). Prediction limit exceedances were noted for the following Appendix III well/constituent pairs:

- Boron: YGWC-23S, YGWC-38, YGWC-41, YGWC-42, and YGWC-43
- Calcium: YGWC-38 and YGWC-42
- Sulfate: YGWC-38 and YGWC-42
- TDS: YGWC-38 and YGWC-42

Trend Test Evaluation – Appendix III

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable at the 99% confidence level (Figure E). Upgradient wells are included in the trend analyses for all parameters found to exceed their prediction limit in downgradient wells to identify whether similar patterns exist upgradient of the site. Upgradient trends are an indication of variability in groundwater unrelated to practices at the site. Both a summary and complete graphical results of the trend tests follow this report. Statistically significant trends were identified for the following well/constituent pairs:

Increasing trends

- Boron: YGWA-39 (upgradient) and YGWC-43
- Calcium: GWA-2, YGWA-1D, YGWA-5I, YGWA-17S, YGWA-3I, and YGWA-39 (all upgradient)
- Sulfate: GWA-2, YGWA-1D, YGWA-2I, YGWA-3D, YGWA-3I, and YGWA-5I (all upgradient)
- TDS: YGWA-21I and YGWA-39 (both upgradient)

Decreasing

- Boron: YGWA-40 (upgradient), YGWC-38, YGWC-41, and YGWC-42
- Calcium: YGWA-1I, YGWA-5D, YGWA-18S, YGWA-47 (all upgradient), YGWC-38, and YGWC-42

- Sulfate: YGWA-5D, YGWA-18I, YGWA-39, YGWA-40, YGWA-47 (all upgradient), YGWC-38, and YGWC-42
- TDS: YGWA-47 (upgradient), YGWC-38, and YGWC-42

Statistical Analysis of Appendix IV Parameters – February 2024

For analysis of Appendix IV parameters, confidence intervals for each downgradient and assessment well/constituent were compared against corresponding Groundwater Protection Standards (GWPS). GWPS were developed as described below. Data from all wells for Appendix IV parameters are reassessed for outliers during each analysis.

The reported measurements of cobalt from August 2020 through August 2022 in upgradient well GWA-2 were previously flagged as outliers as these measurements were two orders of magnitude higher than remaining measurements at this well. This step results in statistical limits that are conservative (i.e., lower) from a regulatory perspective. If further studies indicate these measurements represent spatial variation in groundwater quality, the values will be re-evaluated for construction of interwell tolerance limits. Note that a November 2021 observation for lithium at YAMW-3 was added to the database during this analysis, but was flagged as an outlier since this sample was collected prior to the well's redevelopment. A summary of flagged outliers follows this report (Figure C).

Mann-Whitney Test of Medians

During the previous analysis, the Mann-Whitney (Wilcoxon Rank Sum) test was used to compare the medians of observations sampled before October 2020 at abandoned well YGWC-36 to the medians of the 8 most recent observations sampled at well YGWC-36A for each Appendix IV parameters. When no variation was present between historical data and compliance samples, the Mann-Whitney test was not performed, which was the case for mercury and thallium. When the medians of the two groups are statistically significantly different at the 99% confidence level (such as cadmium and lithium), the historical data sampled from abandoned well YGWC-36 are truncated to only use data from well YGWC-36A. The earlier data are shown on the time series as disconnected point and in a lighter font on the data pages. A list of constituents using truncated records follows this report.

Interwell Upper Tolerance Limits

Interwell tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through February 2024 for Appendix IV constituents (Figure F). Parametric tolerance limits are used when data follow a normal

or transformed-normal distribution. When data contained greater than 50% non-detects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were used. When the alpha level (or false positive rate) for a nonparametric limit is shown as NaN in the results table, it indicates that the background sample size is large enough such that the resulting alpha level (or false positive rate) is too small to display in the results table.

Groundwater Protection Standards

The background limits were then used when determining the groundwater protection standard (GWPS) under 40 CFR §257.95(h) and Georgia EPD Rule 391-3-4-.10(6)(a). On July 30, 2018, US EPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR §257.95(h)(2). Effective on February 22, 2022, Georgia EPD incorporated the updated GWPS into the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a). In accordance with the updated Rules, the GWPS is:

- The maximum contaminant level (MCL) established under §141.62 and §141.66 of this title
- Where an MCL has not been established for a constituent, Federal and State CCR Rules specify levels for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), and molybdenum (0.100 mg/L)
- The respective background level for a constituent when the background level is higher than the MCL or Federal CCR Rule identified GWPS

Following Georgia EPD Rule requirements and the Federal CCR requirements, GWPS were established for statistical comparison of Appendix IV constituents for this sample event (Figure H).

Confidence Intervals

To complete the statistical comparison to GWPS, confidence intervals were constructed for each of the Appendix IV constituents in accordance with the state requirements in each downgradient and assessment well (Figure I). Assessment wells were included when a minimum of 4 samples were available.

The Sanitas software was used to calculate the confidence intervals, either parametric or nonparametric, depending on the data distribution and percentage of non-detects. When data followed a normal or transformed-normal distribution, parametric confidence intervals were used for Appendix IV parameters. Nonparametric confidence intervals, which use the appropriate order statistics, depending on the sample size, as interval limits,

were constructed when data did not follow a normal or transformed-normal distribution or when there were greater than 50% non-detects. The lower confidence limit, which is constructed with 99% confidence for parametric confidence intervals, is compared to the GWPS prepared as described above. The achievable confidence level associated with nonparametric confidence intervals is dependent upon the number samples available.

Due to the limited sample size for some well/constituent pairs (cobalt at well YAMW-3, combined radium at wells YAMW-3, PZ-51, and PZ-52D), the lower limit of the parametric confidence interval resulted in either a wide confidence interval or a negative lower confidence limit. Therefore, nonparametric confidence intervals were constructed for these well/constituent pairs and may be found at the end of Figure H. This is a more conservative approach in that the lower confidence limit reflects the lowest measurement in the data set for a given well rather than a negative number.

Note that due to a statistically significant decreasing trend for selenium at downgradient well YGWC-38 and a statistically significant increasing trend for lithium at YGWC-42, only the most recent 8 and relatively stable observations were used to construct a confidence interval to represent the current average and present-day groundwater quality conditions (USEPA Unified Guidance, 2009, Chapter 7). Confidence intervals for these well/constituent pairs may be found at the end of Figure H.

Only when the entire confidence interval is above a GWPS is the well/constituent pair considered to exceed its respective standard. If there is an exceedance of the GWPS, a statistically significant level (SSL) exceedance is identified. A summary of the confidence intervals follows this letter. When the entire records were evaluated, exceedances were noted for the following well/constituent pairs:

- Cobalt: YAMW-3
- Lithium: YGWC-42
- Selenium: PZ-37 and YGWC-38

Trend Test Evaluation – Appendix IV

Assessment monitoring well/constituent pairs identified with confidence interval exceedances are further evaluated using the Sen's Slope/Mann-Kendall trend test using 95% confidence (Figure J). Although the trend tests for Assessment monitoring pairs were previously evaluated using 99% confidence, the 95% confidence level more rapidly identifies statistically significant trends. Additionally, the 95% confidence level is recommended in cases with limited sample sizes and, particularly, for new assessment wells. Upgradient wells are included in the trend analyses to identify whether similar

patterns exist upgradient of the site for the same constituents. When trends are present in upgradient wells, it is an indication of variability in groundwater quality unrelated to practices at the site. Significant trends were identified for the following well/constituent pairs:

Increasing trend

- Lithium: YGWA-39, YGWA-3D, YGWA-3I (all upgradient), and YGWC-42
- Selenium: YGWA-17S (upgradient)

Decreasing trends

- Cobalt: YGWA-30I, YGWA-39, and YGWA-47 (all upgradient)
- Lithium: YGWA-18I, YGWA-18S, and YGWA-47 (all upgradient)
- Selenium: YGWC-38 and PZ-37

Note that for selenium at upgradient well YGWA-17S, a statistically significant increasing trend was identified. The slope, however, is zero at this well which represents the median slope of all the possible pairwise slopes of the data evaluated.

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Yates Ash Management Area (AMA) and R6 CCR Landfill. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,

Andrew T. Collins
Project Manager

Kristina L. Rayner
Senior Statistician

Date Ranges

Date: 4/8/2024 8:51 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Cadmium (mg/L)
YGWC-36A overall:10/7/2020-2/23/2024
Lithium (mg/L)
YGWC-36A overall:10/7/2020-2/23/2024

100% Non-Detects: Appendix IV Downgradient & Assessment

Analysis Run 4/25/2024 3:10 PM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

Antimony (mg/L)
YAMW-2, YAMW-3, PZ-52D, PZ-51

Arsenic (mg/L)
YAMW-2

Beryllium (mg/L)
YAMW-4, PZ-37D

Cadmium (mg/L)
YAMW-4, YGWC-43, PZ-37D, PZ-52D, YGWC-24SB

Chromium (mg/L)
PZ-37D, PZ-51

Cobalt (mg/L)
YGWC-23S, YGWC-38, PZ-37D, YGWC-24SB

Fluoride (mg/L)
YAMW-1, PZ-35

Lead (mg/L)
YAMW-3, PZ-37D, PZ-51

Lithium (mg/L)
YAMW-2, YGWC-24SB

Mercury (mg/L)
YAMW-1, YAMW-2, YAMW-4, YAMW-5, PZ-35, YGWC-36A, PZ-37D, PZ-52D, PZ-51, YGWC-24SB

Molybdenum (mg/L)
YAMW-2, YAMW-5, YGWC-23S, YGWC-38, YGWC-41, PZ-51, YGWC-24SB

Selenium (mg/L)
YAMW-2, YGWC-43, PZ-37D, YGWC-24SB

Thallium (mg/L)
YAMW-1, YAMW-2, YAMW-3, YAMW-4, YAMW-5, YGWC-23S, YGWC-38, YGWC-41, YGWC-42, YGWC-43, PZ-35, PZ-37, YGWC-36A, PZ-37D, PZ-52D, PZ-51, YGWC-24SB

Appendix III Interwell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/26/2024, 4:14 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**YGWC-23S**	**0.16**	**n/a**	**2/21/2024**	**1.3**	**Yes**	**407**	**n/a**	**n/a**	**51.35**	**n/a**	**n/a**	**0.00004917**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-38**	**0.16**	**n/a**	**2/22/2024**	**3.7**	**Yes**	**407**	**n/a**	**n/a**	**51.35**	**n/a**	**n/a**	**0.00004917**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-41**	**0.16**	**n/a**	**2/22/2024**	**3.5**	**Yes**	**407**	**n/a**	**n/a**	**51.35**	**n/a**	**n/a**	**0.00004917**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-42**	**0.16**	**n/a**	**2/22/2024**	**15.5**	**Yes**	**407**	**n/a**	**n/a**	**51.35**	**n/a**	**n/a**	**0.00004917**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-43**	**0.16**	**n/a**	**2/22/2024**	**2.3**	**Yes**	**407**	**n/a**	**n/a**	**51.35**	**n/a**	**n/a**	**0.00004917**	**NP Inter (NDs) 1 of 2**
Calcium (mg/L)	**YGWC-38**	**37**	**n/a**	**2/22/2024**	**49.7**	**Yes**	**407**	**n/a**	**n/a**	**0.7371**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**YGWC-42**	**37**	**n/a**	**2/22/2024**	**73.5**	**Yes**	**407**	**n/a**	**n/a**	**0.7371**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**YGWC-38**	**160**	**n/a**	**2/22/2024**	**210**	**Yes**	**407**	**n/a**	**n/a**	**6.143**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**YGWC-42**	**160**	**n/a**	**2/22/2024**	**487**	**Yes**	**407**	**n/a**	**n/a**	**6.143**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids (mg/L)	**YGWC-38**	**319**	**n/a**	**2/22/2024**	**403**	**Yes**	**406**	**n/a**	**n/a**	**0.4926**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids (mg/L)	**YGWC-42**	**319**	**n/a**	**2/22/2024**	**881**	**Yes**	**406**	**n/a**	**n/a**	**0.4926**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**

Appendix III Interwell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/26/2024, 4:14 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**YGWC-23S**	**0.16**	**n/a**	**2/21/2024**	**1.3**	**Yes**	**407**	**n/a**	**n/a**	**51.35**	**n/a**	**n/a**	**0.00004917**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-38**	**0.16**	**n/a**	**2/22/2024**	**3.7**	**Yes**	**407**	**n/a**	**n/a**	**51.35**	**n/a**	**n/a**	**0.00004917**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-41**	**0.16**	**n/a**	**2/22/2024**	**3.5**	**Yes**	**407**	**n/a**	**n/a**	**51.35**	**n/a**	**n/a**	**0.00004917**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-42**	**0.16**	**n/a**	**2/22/2024**	**15.5**	**Yes**	**407**	**n/a**	**n/a**	**51.35**	**n/a**	**n/a**	**0.00004917**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-43**	**0.16**	**n/a**	**2/22/2024**	**2.3**	**Yes**	**407**	**n/a**	**n/a**	**51.35**	**n/a**	**n/a**	**0.00004917**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	YGWC-49	0.16	n/a	2/21/2024	0.04ND	No	407	n/a	n/a	51.35	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-36A	0.16	n/a	2/23/2024	0.11	No	407	n/a	n/a	51.35	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-24SB	0.16	n/a	2/23/2024	0.016J	No	407	n/a	n/a	51.35	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Calcium (mg/L)	YGWC-23S	37	n/a	2/21/2024	11.1	No	407	n/a	n/a	0.7371	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	**YGWC-38**	**37**	**n/a**	**2/22/2024**	**49.7**	**Yes**	**407**	**n/a**	**n/a**	**0.7371**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	YGWC-41	37	n/a	2/22/2024	14.4	No	407	n/a	n/a	0.7371	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	**YGWC-42**	**37**	**n/a**	**2/22/2024**	**73.5**	**Yes**	**407**	**n/a**	**n/a**	**0.7371**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	YGWC-43	37	n/a	2/22/2024	10.5	No	407	n/a	n/a	0.7371	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-49	37	n/a	2/21/2024	11.1	No	407	n/a	n/a	0.7371	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-36A	37	n/a	2/23/2024	33.6	No	407	n/a	n/a	0.7371	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-24SB	37	n/a	2/23/2024	2.6	No	407	n/a	n/a	0.7371	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-23S	12.2	n/a	2/21/2024	2.4	No	407	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-38	12.2	n/a	2/22/2024	3.7	No	407	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-41	12.2	n/a	2/22/2024	3.9	No	407	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-42	12.2	n/a	2/22/2024	3.3	No	407	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-43	12.2	n/a	2/22/2024	2.3	No	407	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-49	12.2	n/a	2/21/2024	4	No	407	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-36A	12.2	n/a	2/23/2024	4.8	No	407	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-24SB	12.2	n/a	2/23/2024	8.3	No	407	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Fluoride (mg/L)	YGWC-23S	0.68	n/a	2/21/2024	0.1ND	No	476	n/a	n/a	63.45	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-38	0.68	n/a	2/22/2024	0.1ND	No	476	n/a	n/a	63.45	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-41	0.68	n/a	2/22/2024	0.1ND	No	476	n/a	n/a	63.45	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-42	0.68	n/a	2/22/2024	0.1ND	No	476	n/a	n/a	63.45	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-43	0.68	n/a	2/22/2024	0.091J	No	476	n/a	n/a	63.45	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-49	0.68	n/a	2/21/2024	0.1ND	No	476	n/a	n/a	63.45	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-36A	0.68	n/a	2/23/2024	0.1ND	No	476	n/a	n/a	63.45	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-24SB	0.68	n/a	2/23/2024	0.1ND	No	476	n/a	n/a	63.45	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
pH (S.U.)	YGWC-23S	8.39	4.4	2/21/2024	5.43	No	486	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-38	8.39	4.4	2/22/2024	5.03	No	486	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-41	8.39	4.4	2/22/2024	4.84	No	486	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-42	8.39	4.4	2/22/2024	5.61	No	486	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-43	8.39	4.4	2/22/2024	5.81	No	486	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-49	8.39	4.4	2/21/2024	5.29	No	486	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-36A	8.39	4.4	2/23/2024	5.2	No	486	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-24SB	8.39	4.4	2/23/2024	5.62	No	486	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-23S	160	n/a	2/21/2024	81	No	407	n/a	n/a	6.143	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**YGWC-38**	**160**	**n/a**	**2/22/2024**	**210**	**Yes**	**407**	**n/a**	**n/a**	**6.143**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	YGWC-41	160	n/a	2/22/2024	109	No	407	n/a	n/a	6.143	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**YGWC-42**	**160**	**n/a**	**2/22/2024**	**487**	**Yes**	**407**	**n/a**	**n/a**	**6.143**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	YGWC-43	160	n/a	2/22/2024	147	No	407	n/a	n/a	6.143	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-49	160	n/a	2/21/2024	65.4	No	407	n/a	n/a	6.143	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-36A	160	n/a	2/23/2024	156	No	407	n/a	n/a	6.143	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-24SB	160	n/a	2/23/2024	0.5ND	No	407	n/a	n/a	6.143	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-23S	319	n/a	2/21/2024	192	No	406	n/a	n/a	0.4926	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	**YGWC-38**	**319**	**n/a**	**2/22/2024**	**403**	**Yes**	**406**	**n/a**	**n/a**	**0.4926**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids (mg/L)	YGWC-41	319	n/a	2/22/2024	224	No	406	n/a	n/a	0.4926	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	**YGWC-42**	**319**	**n/a**	**2/22/2024**	**881**	**Yes**	**406**	**n/a**	**n/a**	**0.4926**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids (mg/L)	YGWC-43	319	n/a	2/22/2024	313	No	406	n/a	n/a	0.4926	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-49	319	n/a	2/21/2024	173	No	406	n/a	n/a	0.4926	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-36A	319	n/a	2/23/2024	308	No	406	n/a	n/a	0.4926	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-24SB	319	n/a	2/23/2024	75	No	406	n/a	n/a	0.4926	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2

Appendix III Trend Tests Summary - Significant Results

Plant Yates Data: Plant Yates AMA-R6 Printed 4/25/2024, 2:42 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	YGWA-39 (bg)	0.01889	102	74	Yes	19	5.263	n/a	0.01	NP
Boron (mg/L)	YGWA-40 (bg)	-0.01292	-120	-74	Yes	19	0	n/a	0.01	NP
Boron (mg/L)	YGWC-38	-3.201	-148	-74	Yes	19	0	n/a	0.01	NP
Boron (mg/L)	YGWC-41	-1.87	-125	-74	Yes	19	0	n/a	0.01	NP
Boron (mg/L)	YGWC-42	-1.378	-107	-74	Yes	19	0	n/a	0.01	NP
Boron (mg/L)	YGWC-43	0.336	102	74	Yes	19	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-17S (bg)	0.1377	164	92	Yes	22	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-18S (bg)	-0.07238	-162	-92	Yes	22	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-39 (bg)	2.328	102	74	Yes	19	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-5D (bg)	-1.196	-111	-92	Yes	22	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-5I (bg)	0.06518	123	92	Yes	22	0	n/a	0.01	NP
Calcium (mg/L)	YGWC-38	-25.9	-157	-74	Yes	19	0	n/a	0.01	NP
Calcium (mg/L)	YGWC-42	-10.55	-127	-74	Yes	19	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-47 (bg)	-0.9549	-125	-74	Yes	19	5.263	n/a	0.01	NP
Calcium (mg/L)	GWA-2 (bg)	2.258	92	81	Yes	20	5	n/a	0.01	NP
Calcium (mg/L)	YGWA-1D (bg)	0.4653	113	92	Yes	22	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-1I (bg)	-0.07812	-113	-92	Yes	22	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-3I (bg)	0.5046	97	92	Yes	22	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18I (bg)	-0.09642	-108	-92	Yes	22	22.73	n/a	0.01	NP
Sulfate (mg/L)	YGWA-39 (bg)	-2.507	-123	-74	Yes	19	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-40 (bg)	-6.44	-134	-74	Yes	19	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5D (bg)	-2.263	-177	-92	Yes	22	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5I (bg)	0.08367	157	92	Yes	22	0	n/a	0.01	NP
Sulfate (mg/L)	YGWC-38	-129.7	-160	-74	Yes	19	0	n/a	0.01	NP
Sulfate (mg/L)	YGWC-42	-91.8	-132	-74	Yes	19	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-47 (bg)	-12.07	-148	-74	Yes	19	0	n/a	0.01	NP
Sulfate (mg/L)	GWA-2 (bg)	9.755	89	81	Yes	20	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-1D (bg)	0.8436	169	92	Yes	22	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-2I (bg)	1.363	112	92	Yes	22	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3D (bg)	0.2459	112	92	Yes	22	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3I (bg)	0.9523	127	92	Yes	22	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-21I (bg)	9.947	106	92	Yes	22	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-39 (bg)	26.07	97	74	Yes	19	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-38	-168	-135	-74	Yes	19	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-42	-119	-125	-74	Yes	19	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-47 (bg)	-10.5	-101	-74	Yes	19	0	n/a	0.01	NP

Appendix III Trend Tests Summary - All Results

Plant Yates Data: Plant Yates AMA-R6 Printed 4/25/2024, 2:42 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	YGWA-17S (bg)	0.0005659	73	92	No	22	18.18	n/a	0.01	NP
Boron (mg/L)	YGWA-18I (bg)	0	-10	-92	No	22	81.82	n/a	0.01	NP
Boron (mg/L)	YGWA-18S (bg)	0.0008073	63	92	No	22	27.27	n/a	0.01	NP
Boron (mg/L)	YGWA-20S (bg)	0	-3	-92	No	22	90.91	n/a	0.01	NP
Boron (mg/L)	YGWA-21I (bg)	0	-21	-92	No	22	59.09	n/a	0.01	NP
Boron (mg/L)	**YGWA-39 (bg)**	**0.01889**	**102**	**74**	**Yes**	**19**	**5.263**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWA-40 (bg)**	**-0.01292**	**-120**	**-74**	**Yes**	**19**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWA-4I (bg)	0	19	92	No	22	72.73	n/a	0.01	NP
Boron (mg/L)	YGWA-5D (bg)	0.000669	82	92	No	22	22.73	n/a	0.01	NP
Boron (mg/L)	YGWA-5I (bg)	0	-4	-92	No	22	68.18	n/a	0.01	NP
Boron (mg/L)	YGWC-23S	0.01599	23	92	No	22	0	n/a	0.01	NP
Boron (mg/L)	**YGWC-38**	**-3.201**	**-148**	**-74**	**Yes**	**19**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWC-41**	**-1.87**	**-125**	**-74**	**Yes**	**19**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWC-42**	**-1.378**	**-107**	**-74**	**Yes**	**19**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWC-43**	**0.336**	**102**	**74**	**Yes**	**19**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWA-47 (bg)	-0.0003761	-34	-74	No	19	5.263	n/a	0.01	NP
Boron (mg/L)	GWA-2 (bg)	0	26	81	No	20	65	n/a	0.01	NP
Boron (mg/L)	YGWA-14S (bg)	-0.0002056	-33	-92	No	22	9.091	n/a	0.01	NP
Boron (mg/L)	YGWA-1D (bg)	0.001069	59	92	No	22	40.91	n/a	0.01	NP
Boron (mg/L)	YGWA-1I (bg)	0	-22	-92	No	22	68.18	n/a	0.01	NP
Boron (mg/L)	YGWA-2I (bg)	0	6	92	No	22	81.82	n/a	0.01	NP
Boron (mg/L)	YGWA-30I (bg)	0	-10	-92	No	22	86.36	n/a	0.01	NP
Boron (mg/L)	YGWA-3D (bg)	0	24	92	No	22	63.64	n/a	0.01	NP
Boron (mg/L)	YGWA-3I (bg)	0	-11	-92	No	22	90.91	n/a	0.01	NP
Calcium (mg/L)	**YGWA-17S (bg)**	**0.1377**	**164**	**92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-18I (bg)	0.05778	56	92	No	22	0	n/a	0.01	NP
Calcium (mg/L)	**YGWA-18S (bg)**	**-0.07238**	**-162**	**-92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-20S (bg)	0.02359	56	92	No	22	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-21I (bg)	0.5776	91	92	No	22	0	n/a	0.01	NP
Calcium (mg/L)	**YGWA-39 (bg)**	**2.328**	**102**	**74**	**Yes**	**19**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-40 (bg)	-0.2139	-53	-74	No	19	5.263	n/a	0.01	NP
Calcium (mg/L)	YGWA-4I (bg)	0.08588	29	92	No	22	0	n/a	0.01	NP
Calcium (mg/L)	**YGWA-5D (bg)**	**-1.196**	**-111**	**-92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-5I (bg)**	**0.06518**	**123**	**92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWC-38**	**-25.9**	**-157**	**-74**	**Yes**	**19**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWC-42**	**-10.55**	**-127**	**-74**	**Yes**	**19**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-47 (bg)**	**-0.9549**	**-125**	**-74**	**Yes**	**19**	**5.263**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GWA-2 (bg)**	**2.258**	**92**	**81**	**Yes**	**20**	**5**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-14S (bg)	0.0116	39	92	No	22	0	n/a	0.01	NP
Calcium (mg/L)	**YGWA-1D (bg)**	**0.4653**	**113**	**92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-1I (bg)**	**-0.07812**	**-113**	**-92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-2I (bg)	0.09102	20	92	No	22	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-30I (bg)	0.02373	76	92	No	22	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-3D (bg)	0.2967	67	92	No	22	0	n/a	0.01	NP
Calcium (mg/L)	**YGWA-3I (bg)**	**0.5046**	**97**	**92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-17S (bg)	0	-13	-92	No	22	0	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-18I (bg)**	**-0.09642**	**-108**	**-92**	**Yes**	**22**	**22.73**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-18S (bg)	-0.1174	-88	-92	No	22	9.091	n/a	0.01	NP
Sulfate (mg/L)	YGWA-20S (bg)	0	60	92	No	22	72.73	n/a	0.01	NP
Sulfate (mg/L)	YGWA-21I (bg)	-0.1893	-72	-92	No	22	0	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-39 (bg)**	**-2.507**	**-123**	**-74**	**Yes**	**19**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-40 (bg)**	**-6.44**	**-134**	**-74**	**Yes**	**19**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-4I (bg)	0.02708	23	92	No	22	0	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-5D (bg)**	**-2.263**	**-177**	**-92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-5I (bg)**	**0.08367**	**157**	**92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**

Appendix III Trend Tests Summary - All Results

Plant Yates Data: Plant Yates AMA-R6 Printed 4/25/2024, 2:42 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Sulfate (mg/L)	**YGWC-38**	**-129.7**	**-160**	**-74**	**Yes**	**19**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWC-42**	**-91.8**	**-132**	**-74**	**Yes**	**19**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-47 (bg)**	**-12.07**	**-148**	**-74**	**Yes**	**19**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GWA-2 (bg)**	**9.755**	**89**	**81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-14S (bg)	-0.01773	-14	-92	No	22	0	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-1D (bg)**	**0.8436**	**169**	**92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-1I (bg)	-0.07684	-24	-92	No	22	0	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-2I (bg)**	**1.363**	**112**	**92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-30I (bg)	-0.04247	-53	-92	No	22	9.091	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-3D (bg)**	**0.2459**	**112**	**92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-3I (bg)**	**0.9523**	**127**	**92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	YGWA-17S (bg)	1.719	48	92	No	22	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-18I (bg)	-0.3561	-16	-92	No	22	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-18S (bg)	0.5607	22	92	No	22	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-20S (bg)	3.337	68	92	No	22	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**YGWA-21I (bg)**	**9.947**	**106**	**92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**YGWA-39 (bg)**	**26.07**	**97**	**74**	**Yes**	**19**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	YGWA-40 (bg)	-5.069	-51	-74	No	19	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-4I (bg)	1.734	31	92	No	22	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-5D (bg)	-9.186	-72	-87	No	21	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-5I (bg)	0	-1	-92	No	22	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**YGWC-38**	**-168**	**-135**	**-74**	**Yes**	**19**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**YGWC-42**	**-119**	**-125**	**-74**	**Yes**	**19**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**YGWA-47 (bg)**	**-10.5**	**-101**	**-74**	**Yes**	**19**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	GWA-2 (bg)	12.15	73	81	No	20	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-14S (bg)	1.064	40	92	No	22	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-1D (bg)	2.531	65	92	No	22	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-1I (bg)	-0.137	-4	-92	No	22	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-2I (bg)	0	-1	-92	No	22	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-30I (bg)	1.487	40	92	No	22	9.091	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-3D (bg)	3.842	48	92	No	22	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-3I (bg)	2.051	36	92	No	22	0	n/a	0.01	NP

Upper Tolerance Limits Summary Table

Plant Yates Data: Plant Yates AMA-R6 Printed 4/25/2024, 2:49 PM

Constituent	Upper Lim.	Lower Lim.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.0047	n/a	429	n/a	n/a	87.88	n/a	n/a	NaN	NP Inter(NDs)
Arsenic (mg/L)	0.005	n/a	477	n/a	n/a	75.26	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	0.21	n/a	477	n/a	n/a	2.306	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	0.0011	n/a	461	n/a	n/a	80.04	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	0.00063	n/a	461	n/a	n/a	95.01	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	0.0093	n/a	429	n/a	n/a	81.59	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	0.035	n/a	471	n/a	n/a	68.79	n/a	n/a	NaN	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	6.92	n/a	456	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Fluoride (mg/L)	0.68	n/a	476	n/a	n/a	63.45	n/a	n/a	NaN	NP Inter(NDs)
Lead (mg/L)	0.0013	n/a	431	n/a	n/a	87.24	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	0.03	n/a	456	n/a	n/a	27.19	n/a	n/a	NaN	NP Inter(normality)
Mercury (mg/L)	0.00064	n/a	385	n/a	n/a	89.35	n/a	n/a	NaN	NP Inter(NDs)
Molybdenum (mg/L)	0.03	n/a	420	n/a	n/a	61.19	n/a	n/a	NaN	NP Inter(NDs)
Selenium (mg/L)	0.005	n/a	459	n/a	n/a	92.81	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	0.001	n/a	395	n/a	n/a	97.47	n/a	n/a	NaN	NP Inter(NDs)

YATES AMA-R6 GWPS				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.0047	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.21	2
Beryllium, Total (mg/L)	0.004		0.0011	0.004
Cadmium, Total (mg/L)	0.005		0.00063	0.005
Chromium, Total (mg/L)	0.1		0.0093	0.1
Cobalt, Total (mg/L)		0.006	0.035	0.035
Combined Radium, Total (pCi/L)	5		6.92	6.92
Fluoride, Total (mg/L)	4		0.68	4
Lead, Total (mg/L)		0.015	0.0013	0.015
Lithium, Total (mg/L)		0.04	0.03	0.04
Mercury, Total (mg/L)	0.002		0.00064	0.002
Molybdenum, Total (mg/L)		0.1	0.03	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*

Confidence Intervals Summary Table - Significant Results

Plant Yates Data: Plant Yates AMA-R6 Printed 4/25/2024, 4:22 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cobalt (mg/L)	**YAMW-3**	**0.16**	**0.051**	**0.035**	**Yes**	**5**	**0.095**	**0.05098**	**0**	**None**	**No**	**0.031**	**NP (selected)**
Lithium (mg/L)	**YGWC-42**	**0.05767**	**0.04858**	**0.04**	**Yes**	**8**	**0.05313**	**0.004291**	**0**	**None**	**No**	**0.01**	**Param.**
Selenium (mg/L)	**PZ-37**	**0.2691**	**0.19**	**0.05**	**Yes**	**17**	**0.2295**	**0.06315**	**0**	**None**	**No**	**0.01**	**Param.**
Selenium (mg/L)	**YGWC-38**	**0.07101**	**0.05024**	**0.05**	**Yes**	**8**	**0.06063**	**0.009797**	**0**	**None**	**No**	**0.01**	**Param.**

Confidence Intervals Summary Table - All Results

Plant Yates Data: Plant Yates AMA-R6 Printed 4/25/2024, 4:22 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	PZ-35	0.003	0.003	0.006	No	11	0.002763	0.0007869	90.91	None	No	0.006	NP (NDs)
Antimony (mg/L)	PZ-37	0.003	0.0014	0.006	No	17	0.002627	0.000851	82.35	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-37D	0.003	0.0015	0.006	No	6	0.00275	0.0006124	83.33	None	No	0.0155	NP (NDs)
Antimony (mg/L)	YAMW-1	0.003	0.0016	0.006	No	11	0.004515	0.006844	54.55	None	No	0.006	NP (NDs)
Antimony (mg/L)	YAMW-4	0.003	0.00062	0.006	No	9	0.002263	0.001113	66.67	None	No	0.002	NP (NDs)
Antimony (mg/L)	YAMW-5	0.003	0.00033	0.006	No	9	0.002703	0.00089	88.89	None	No	0.002	NP (NDs)
Antimony (mg/L)	YGWC-23S	0.003	0.00085	0.006	No	22	0.002666	0.0008638	86.36	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-24SB	0.003	0.0009	0.006	No	21	0.0029	0.0004583	95.24	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-36A	0.0041	0.0016	0.006	No	22	0.003818	0.005542	54.55	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-38	0.003	0.0015	0.006	No	19	0.002529	0.0009603	78.95	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-41	0.003	0.0014	0.006	No	19	0.002916	0.0003671	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-42	0.003	0.00053	0.006	No	19	0.00287	0.0005667	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-43	0.003	0.0026	0.006	No	19	0.002837	0.0006189	89.47	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-49	0.003	0.0011	0.006	No	19	0.00277	0.0006955	89.47	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-35	0.005	0.00096	0.01	No	12	0.003854	0.001764	66.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-37	0.005	0.0011	0.01	No	17	0.00282	0.001915	41.18	None	No	0.01	NP (normality)
Arsenic (mg/L)	PZ-37D	0.005	0.0014	0.01	No	6	0.0044	0.00147	83.33	None	No	0.0155	NP (NDs)
Arsenic (mg/L)	PZ-51	0.005	0.0013	0.01	No	5	0.00426	0.001655	80	None	No	0.031	NP (NDs)
Arsenic (mg/L)	PZ-52D	0.00343	0.0005037	0.01	No	5	0.00318	0.001825	40	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	YAMW-1	0.005	0.0034	0.01	No	12	0.004642	0.0008691	83.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YAMW-3	0.005	0.0015	0.01	No	5	0.00406	0.001522	60	None	No	0.031	NP (NDs)
Arsenic (mg/L)	YAMW-4	0.005	0.00079	0.01	No	9	0.003232	0.001906	44.44	None	No	0.002	NP (normality)
Arsenic (mg/L)	YAMW-5	0.005	0.00095	0.01	No	9	0.003306	0.00181	44.44	None	No	0.002	NP (normality)
Arsenic (mg/L)	YGWC-23S	0.005	0.0025	0.01	No	24	0.004737	0.0009098	91.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-24SB	0.005	0.0035	0.01	No	23	0.00467	0.0009232	86.96	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-36A	0.005	0.0047	0.01	No	24	0.004118	0.001731	75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-38	0.001228	0.0007661	0.01	No	20	0.002323	0.001851	30	Kaplan-Meier	ln(x)	0.01	Param.
Arsenic (mg/L)	YGWC-41	0.005	0.001	0.01	No	20	0.003256	0.002041	55	Kaplan-Meier	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-42	0.002209	0.001396	0.01	No	20	0.002543	0.001402	20	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	YGWC-43	0.005	0.0033	0.01	No	20	0.004135	0.00163	75	Kaplan-Meier	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-49	0.005	0.001	0.01	No	19	0.00434	0.001567	84.21	Kaplan-Meier	No	0.01	NP (NDs)
Barium (mg/L)	PZ-35	0.1223	0.03888	2	No	12	0.08342	0.06041	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	PZ-37	0.05	0.03178	2	No	17	0.04089	0.01454	0	None	No	0.01	Param.
Barium (mg/L)	PZ-37D	0.02967	0.01033	2	No	6	0.02	0.007043	0	None	No	0.01	Param.
Barium (mg/L)	PZ-51	0.01729	0.01231	2	No	5	0.0148	0.001483	0	None	No	0.01	Param.
Barium (mg/L)	PZ-52D	0.0316	0.00445	2	No	5	0.01582	0.009293	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	YAMW-1	0.08025	0.04275	2	No	12	0.0615	0.02389	0	None	No	0.01	Param.
Barium (mg/L)	YAMW-2	0.009069	0.006953	2	No	9	0.008011	0.001096	0	None	No	0.01	Param.
Barium (mg/L)	YAMW-3	0.04751	0.01849	2	No	5	0.033	0.00866	0	None	No	0.01	Param.
Barium (mg/L)	YAMW-4	0.021	0.003	2	No	9	0.007378	0.007517	0	None	No	0.002	NP (normality)
Barium (mg/L)	YAMW-5	0.057	0.034	2	No	9	0.03911	0.007219	0	None	No	0.002	NP (normality)
Barium (mg/L)	YGWC-23S	0.04869	0.03662	2	No	24	0.04105	0.01336	0	None	x^2	0.01	Param.
Barium (mg/L)	YGWC-24SB	0.025	0.019	2	No	23	0.02211	0.00453	0	None	No	0.01	NP (normality)
Barium (mg/L)	YGWC-36A	0.05769	0.03386	2	No	24	0.05173	0.03773	0	None	ln(x)	0.01	Param.
Barium (mg/L)	YGWC-38	0.0218	0.01695	2	No	20	0.01938	0.004263	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-41	0.02733	0.02019	2	No	20	0.02376	0.006288	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-42	0.04116	0.0283	2	No	20	0.03473	0.01132	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-43	0.0329	0.02009	2	No	20	0.0265	0.01128	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-49	0.07598	0.06539	2	No	19	0.07069	0.009043	0	None	No	0.01	Param.
Beryllium (mg/L)	PZ-35	0.0007754	0.000319	0.004	No	13	0.0005938	0.0003567	15.38	Kaplan-Meier	sqrt(x)	0.01	Param.
Beryllium (mg/L)	PZ-37	0.0011	0.00025	0.004	No	17	0.0005518	0.0003913	11.76	None	No	0.01	NP (normality)
Beryllium (mg/L)	PZ-51	0.003468	0.002332	0.004	No	5	0.0029	0.0003391	0	None	No	0.01	Param.
Beryllium (mg/L)	PZ-52D	0.0005	0.000059	0.004	No	5	0.000329	0.0002343	60	None	No	0.031	NP (NDs)
Beryllium (mg/L)	YAMW-1	0.0002287	0.00009357	0.004	No	12	0.0002786	0.0001836	33.33	Kaplan-Meier	x^(1/3)	0.01	Param.
Beryllium (mg/L)	YAMW-2	0.0005	0.000051	0.004	No	9	0.0002079	0.0002192	33.33	None	No	0.002	NP (normality)
Beryllium (mg/L)	YAMW-3	0.0002161	0.00002792	0.004	No	5	0.000122	0.00005614	0	None	No	0.01	Param.

Confidence Intervals Summary Table - All Results

Plant Yates Data: Plant Yates AMA-R6 Printed 4/25/2024, 4:22 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	YAMW-5	0.000147	0.0001062	0.004	No	10	0.0001266	0.0000229	0	None	No	0.01	Param.
Beryllium (mg/L)	YGWC-23S	0.00023	0.00009	0.004	No	24	0.000209	0.0001601	20.83	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-24SB	0.0001586	0.0001049	0.004	No	23	0.0001352	0.00005416	13.04	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	YGWC-36A	0.0004195	0.0002059	0.004	No	24	0.0003837	0.0003681	4.167	None	ln(x)	0.01	Param.
Beryllium (mg/L)	YGWC-38	0.004837	0.003143	0.004	No	20	0.00399	0.001492	0	None	No	0.01	Param.
Beryllium (mg/L)	YGWC-41	0.0037	0.0014	0.004	No	20	0.0025	0.001062	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-42	0.0005	0.000067	0.004	No	20	0.0003292	0.0002149	60	None	No	0.01	NP (NDs)
Beryllium (mg/L)	YGWC-43	0.0003894	0.000246	0.004	No	20	0.0003935	0.0001299	30	Kaplan-Meier	No	0.01	Param.
Beryllium (mg/L)	YGWC-49	0.00013	0.0001	0.004	No	19	0.0001237	0.00003639	5.263	None	No	0.01	NP (normality)
Cadmium (mg/L)	PZ-35	0.0005	0.00016	0.005	No	12	0.0003742	0.0001604	58.33	None	No	0.01	NP (NDs)
Cadmium (mg/L)	PZ-37	0.0007848	0.0004435	0.005	No	17	0.0006141	0.0002724	11.76	None	No	0.01	Param.
Cadmium (mg/L)	PZ-51	0.0019	0.0017	0.005	No	5	0.00176	0.00008944	0	None	No	0.031	NP (normality)
Cadmium (mg/L)	YAMW-1	0.0005	0.00014	0.005	No	12	0.0002867	0.0001607	33.33	None	No	0.01	NP (normality)
Cadmium (mg/L)	YAMW-2	0.0005	0.00015	0.005	No	9	0.0004611	0.0001167	88.89	None	No	0.002	NP (NDs)
Cadmium (mg/L)	YAMW-3	0.0005	0.00035	0.005	No	5	0.000466	0.00006542	60	None	No	0.031	NP (NDs)
Cadmium (mg/L)	YAMW-5	0.00046	0.00018	0.005	No	9	0.0002411	0.00008507	0	None	No	0.002	NP (normality)
Cadmium (mg/L)	YGWC-23S	0.0005	0.00007	0.005	No	24	0.0004821	0.00008777	95.83	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-36A	0.0005	0.00012	0.005	No	9	0.0004578	0.0001267	88.89	None	No	0.002	NP (NDs)
Cadmium (mg/L)	YGWC-38	0.0024	0.00142	0.005	No	20	0.00191	0.0008623	0	None	No	0.01	Param.
Cadmium (mg/L)	YGWC-41	0.0005	0.00018	0.005	No	20	0.000333	0.0001596	45	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-42	0.0005	0.0002	0.005	No	20	0.0003955	0.00016	55	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-49	0.0005	0.00007	0.005	No	19	0.0004774	0.00009865	94.74	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-35	0.005	0.00061	0.1	No	10	0.002971	0.002159	50	None	No	0.011	NP (normality)
Chromium (mg/L)	PZ-37	0.005	0.0019	0.1	No	17	0.004388	0.001372	82.35	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-52D	0.005	0.0011	0.1	No	5	0.00422	0.001744	80	None	No	0.031	NP (NDs)
Chromium (mg/L)	YAMW-1	0.005	0.00074	0.1	No	10	0.002938	0.002182	50	None	No	0.011	NP (normality)
Chromium (mg/L)	YAMW-2	0.005	0.00071	0.1	No	9	0.003446	0.001946	55.56	None	No	0.002	NP (NDs)
Chromium (mg/L)	YAMW-3	0.005	0.0011	0.1	No	5	0.00422	0.001744	80	None	No	0.031	NP (NDs)
Chromium (mg/L)	YAMW-4	0.005	0.00057	0.1	No	9	0.004508	0.001477	88.89	None	No	0.002	NP (NDs)
Chromium (mg/L)	YAMW-5	0.005	0.0016	0.1	No	9	0.004622	0.001133	88.89	None	No	0.002	NP (NDs)
Chromium (mg/L)	YGWC-23S	0.005	0.0011	0.1	No	20	0.003627	0.001935	65	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-24SB	0.005	0.0011	0.1	No	19	0.004376	0.001481	84.21	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-36A	0.005	0.0035	0.1	No	20	0.004324	0.001477	80	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-38	0.005	0.00065	0.1	No	20	0.004557	0.001362	90	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-41	0.005	0.00039	0.1	No	20	0.004769	0.001031	95	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-42	0.005	0.0013	0.1	No	20	0.004366	0.001554	85	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-43	0.005	0.00074	0.1	No	20	0.004128	0.001789	80	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-49	0.002	0.0016	0.1	No	18	0.001967	0.0007956	5.556	None	No	0.01	NP (normality)
Cobalt (mg/L)	PZ-35	0.0059	0.005	0.035	No	12	0.005075	0.0002598	91.67	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-37	0.008837	0.003309	0.035	No	17	0.006724	0.004956	0	None	x^(1/3)	0.01	Param.
Cobalt (mg/L)	PZ-51	0.03383	0	0.035	No	5	0.01376	0.01198	0	None	No	0.01	Param.
Cobalt (mg/L)	PZ-52D	0.003714	0.0008059	0.035	No	5	0.00226	0.0008678	0	None	No	0.01	Param.
Cobalt (mg/L)	YAMW-1	0.01819	0.004993	0.035	No	13	0.01259	0.01013	15.38	Kaplan-Meier	sqrt(x)	0.01	Param.
Cobalt (mg/L)	YAMW-2	0.004187	0.0004804	0.035	No	9	0.002312	0.002283	11.11	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	**YAMW-3**	**0.16**	**0.051**	**0.035**	**Yes**	**5**	**0.095**	**0.05098**	**0**	**None**	**No**	**0.031**	**NP (selected)**
Cobalt (mg/L)	YAMW-4	0.005	0.00041	0.035	No	9	0.001592	0.001942	22.22	None	No	0.002	NP (normality)
Cobalt (mg/L)	YAMW-5	0.005	0.00077	0.035	No	9	0.00453	0.00141	88.89	None	No	0.002	NP (NDs)
Cobalt (mg/L)	YGWC-36A	0.005	0.00086	0.035	No	24	0.004071	0.001852	79.17	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-41	0.005	0.0011	0.035	No	20	0.004119	0.001813	80	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-42	0.002154	0.001686	0.035	No	20	0.00192	0.0004124	5	None	No	0.01	Param.
Cobalt (mg/L)	YGWC-43	0.005	0.0005	0.035	No	20	0.002639	0.001942	35	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-49	0.005	0.0008	0.035	No	19	0.004079	0.001833	78.95	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	PZ-35	0.9078	0.3704	6.92	No	11	0.6391	0.3224	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-37	1.848	1.135	6.92	No	17	1.491	0.5692	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-37D	3.219	1.026	6.92	No	6	2.123	0.7982	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-51	0.964	0.389	6.92	No	5	0.7276	0.276	0	None	No	0.031	NP (selected)

Confidence Intervals Summary Table - All Results

Plant Yates Data: Plant Yates AMA-R6 Printed 4/25/2024, 4:22 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	PZ-52D	1.88	0.218	6.92	No	6	0.8755	0.6839	0	None	No	0.0155	NP (selected)
Combined Radium 226 + 228 (pCi/L)	YAMW-1	0.6632	0.3654	6.92	No	11	0.5143	0.1787	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YAMW-2	0.7776	0.1345	6.92	No	9	0.4561	0.333	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YAMW-3	2.77	0.973	6.92	No	5	1.579	0.8475	0	None	No	0.031	NP (selected)
Combined Radium 226 + 228 (pCi/L)	YAMW-4	0.9263	0.1797	6.92	No	9	0.553	0.3866	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YAMW-5	1.189	0.5776	6.92	No	9	0.8832	0.3166	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-23S	0.7615	0.3906	6.92	No	24	0.576	0.3634	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-24SB	0.7497	0.4698	6.92	No	23	0.6098	0.2676	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-36A	0.939	0.4907	6.92	No	24	0.7148	0.4393	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-38	1.102	0.5576	6.92	No	20	0.83	0.4797	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-41	1.225	0.608	6.92	No	20	0.9164	0.5432	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-42	2.377	1.06	6.92	No	20	1.718	1.16	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-43	3.993	1.983	6.92	No	20	2.988	1.771	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-49	1.017	0.5306	6.92	No	19	0.7737	0.4151	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-37	0.23	0.1	4	No	17	0.15	0.102	76.47	None	No	0.01	NP (NDs)
Fluoride (mg/L)	PZ-37D	0.3152	0.1214	4	No	6	0.2183	0.07055	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-51	0.1521	0.08666	4	No	5	0.1194	0.01954	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-52D	0.1208	0.03603	4	No	5	0.0784	0.02528	0	None	No	0.01	Param.
Fluoride (mg/L)	YAMW-2	0.1	0.05	4	No	9	0.086	0.02129	66.67	None	No	0.002	NP (NDs)
Fluoride (mg/L)	YAMW-3	0.09416	0.06434	4	No	5	0.0834	0.01286	20	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	YAMW-4	0.1019	0.05838	4	No	9	0.09978	0.02656	44.44	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	YAMW-5	0.1	0.05	4	No	9	0.08944	0.02098	77.78	Kaplan-Meier	No	0.002	NP (NDs)
Fluoride (mg/L)	YGWC-23S	0.1	0.057	4	No	25	0.09424	0.01928	84	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-24SB	0.1	0.098	4	No	24	0.09508	0.01657	87.5	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-36A	0.1	0.094	4	No	25	0.09424	0.02875	72	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-38	0.2	0.1	4	No	21	0.144	0.1026	71.43	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-41	0.11	0.1	4	No	21	0.1005	0.002182	90.48	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-42	0.1	0.07	4	No	21	0.08686	0.02384	71.43	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-43	0.1023	0.06036	4	No	21	0.1011	0.04729	19.05	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	YGWC-49	0.14	0.09	4	No	20	0.0995	0.02235	70	Kaplan-Meier	No	0.01	NP (NDs)
Lead (mg/L)	PZ-35	0.001	0.00015	0.015	No	11	0.0008397	0.0003569	81.82	None	No	0.006	NP (NDs)
Lead (mg/L)	PZ-37	0.001	0.0001	0.015	No	17	0.0007455	0.0004076	70.59	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-52D	0.0031	0.001	0.015	No	5	0.0015	0.000911	60	Kaplan-Meier	No	0.031	NP (NDs)
Lead (mg/L)	YAMW-1	0.001	0.001	0.015	No	11	0.0009264	0.0002442	90.91	None	No	0.006	NP (NDs)
Lead (mg/L)	YAMW-2	0.001	0.00008	0.015	No	9	0.0007989	0.0003991	77.78	None	No	0.002	NP (NDs)
Lead (mg/L)	YAMW-4	0.001	0.000096	0.015	No	9	0.0007684	0.0003648	66.67	None	No	0.002	NP (NDs)
Lead (mg/L)	YAMW-5	0.001	0.000041	0.015	No	9	0.0006916	0.000463	66.67	None	No	0.002	NP (NDs)
Lead (mg/L)	YGWC-23S	0.001	0.00044	0.015	No	22	0.0008557	0.0003197	81.82	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-24SB	0.001	0.00036	0.015	No	21	0.0008906	0.0002792	85.71	Kaplan-Meier	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-36A	0.0004454	0.0001752	0.015	No	22	0.0006332	0.0004257	36.36	Kaplan-Meier	sqrt(x)	0.01	Param.
Lead (mg/L)	YGWC-38	0.001	0.0001	0.015	No	20	0.000865	0.0003297	85	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-41	0.0011	0.0002	0.015	No	20	0.0008279	0.0003676	75	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-42	0.001	0.0002	0.015	No	20	0.0008196	0.0003713	80	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-43	0.001	0.00008	0.015	No	20	0.0009078	0.0002839	90	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-49	0.001	0.000059	0.015	No	19	0.0009505	0.0002159	94.74	None	No	0.01	NP (NDs)
Lithium (mg/L)	PZ-35	0.011	0.0011	0.04	No	12	0.003808	0.00443	8.333	None	No	0.01	NP (normality)
Lithium (mg/L)	PZ-37	0.02728	0.01915	0.04	No	17	0.02322	0.006491	5.882	None	No	0.01	Param.
Lithium (mg/L)	PZ-37D	0.01266	0.005139	0.04	No	6	0.0089	0.002738	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-51	0.006023	0.004137	0.04	No	5	0.00508	0.000563	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-52D	0.03285	0.01475	0.04	No	5	0.0238	0.005404	0	None	No	0.01	Param.
Lithium (mg/L)	YAMW-1	0.01963	0.009587	0.04	No	12	0.01461	0.006399	8.333	None	No	0.01	Param.
Lithium (mg/L)	YAMW-3	0.05269	0.03798	0.04	No	6	0.04533	0.005354	0	None	No	0.01	Param.
Lithium (mg/L)	YAMW-4	0.0353	0.026	0.04	No	9	0.03011	0.006585	0	None	x^4	0.01	Param.
Lithium (mg/L)	YAMW-5	0.01554	0.01335	0.04	No	9	0.01444	0.00113	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-23S	0.0026	0.0019	0.04	No	24	0.002896	0.002636	4.167	None	No	0.01	NP (normality)
Lithium (mg/L)	YGWC-36A	0.015	0.00086	0.04	No	9	0.002698	0.004622	11.11	None	No	0.002	NP (normality)

Confidence Intervals Summary Table - All Results

Plant Yates Data: Plant Yates AMA-R6 Printed 4/25/2024, 4:22 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	YGWC-38	0.00841	0.00692	0.04	No	20	0.007665	0.001311	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-41	0.0042	0.0021	0.04	No	20	0.003675	0.002823	5	None	No	0.01	NP (normality)
Lithium (mg/L)	**YGWC-42**	**0.05767**	**0.04858**	**0.04**	**Yes**	**8**	**0.05313**	**0.004291**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	YGWC-43	0.01758	0.01237	0.04	No	20	0.01498	0.004588	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-49	0.00376	0.003366	0.04	No	19	0.003563	0.000337	0	None	No	0.01	Param.
Mercury (mg/L)	PZ-37	0.0002	0.00019	0.002	No	17	0.0001912	0.00003389	88.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	YAMW-3	0.0002	0.00016	0.002	No	5	0.000192	0.00001789	80	None	No	0.031	NP (NDs)
Mercury (mg/L)	YGWC-23S	0.0002	0.00015	0.002	No	19	0.000192	0.00002548	89.47	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-38	0.0002	0.00008	0.002	No	17	0.0001834	0.0000476	88.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-41	0.0002	0.00006	0.002	No	17	0.0001918	0.00003395	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-42	0.0002	0.000048	0.002	No	17	0.0001911	0.00003687	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-43	0.0002	0.00009	0.002	No	17	0.0001848	0.00004337	88.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-49	0.0002	0.00014	0.002	No	16	0.0001876	0.00003692	87.5	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-35	0.01	0.01	0.1	No	10	0.00919	0.002561	90	None	No	0.011	NP (NDs)
Molybdenum (mg/L)	PZ-37	0.01	0.0016	0.1	No	17	0.006124	0.004248	52.94	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-37D	0.005604	0.001662	0.1	No	6	0.003633	0.001435	0	None	No	0.01	Param.
Molybdenum (mg/L)	PZ-52D	0.01208	0	0.1	No	5	0.00598	0.00364	0	None	No	0.01	Param.
Molybdenum (mg/L)	YAMW-1	0.01	0.0014	0.1	No	10	0.006199	0.004102	50	None	No	0.011	NP (normality)
Molybdenum (mg/L)	YAMW-3	0.008973	0.002427	0.1	No	5	0.0057	0.001953	0	None	No	0.01	Param.
Molybdenum (mg/L)	YAMW-4	0.007886	0.006283	0.1	No	9	0.007078	0.0009148	0	None	x^2	0.01	Param.
Molybdenum (mg/L)	YGWC-36A	0.01	0.0038	0.1	No	20	0.00795	0.003392	70	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-42	0.01	0.00081	0.1	No	20	0.003919	0.004133	30	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-43	0.01	0.0012	0.1	No	20	0.00471	0.004125	35	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-49	0.01	0.0007	0.1	No	18	0.009483	0.002192	94.44	None	No	0.01	NP (NDs)
Selenium (mg/L)	PZ-35	0.005	0.003	0.05	No	12	0.004117	0.001102	50	None	No	0.01	NP (normality)
Selenium (mg/L)	**PZ-37**	**0.2691**	**0.19**	**0.05**	**Yes**	**17**	**0.2295**	**0.06315**	**0**	**None**	**No**	**0.01**	**Param.**
Selenium (mg/L)	PZ-51	0.03002	0.02238	0.05	No	5	0.0262	0.00228	0	None	No	0.01	Param.
Selenium (mg/L)	PZ-52D	0.0128	0.0004768	0.05	No	5	0.00664	0.003678	0	None	No	0.01	Param.
Selenium (mg/L)	YAMW-1	0.004708	0.002901	0.05	No	12	0.004367	0.001128	41.67	Kaplan-Meier	x^3	0.01	Param.
Selenium (mg/L)	YAMW-3	0.023	0.005	0.05	No	6	0.008417	0.007214	66.67	Kaplan-Meier	No	0.0155	NP (NDs)
Selenium (mg/L)	YAMW-4	0.0185	0.004137	0.05	No	10	0.01398	0.007309	20	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	YAMW-5	0.05909	0.04376	0.05	No	10	0.0511	0.01009	0	None	x^2	0.01	Param.
Selenium (mg/L)	YGWC-23S	0.0381	0.02862	0.05	No	24	0.03336	0.009289	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-36A	0.005	0.0024	0.05	No	24	0.003529	0.001378	37.5	None	No	0.01	NP (normality)
Selenium (mg/L)	**YGWC-38**	**0.07101**	**0.05024**	**0.05**	**Yes**	**8**	**0.06063**	**0.009797**	**0**	**None**	**No**	**0.01**	**Param.**
Selenium (mg/L)	YGWC-41	0.05675	0.03543	0.05	No	20	0.04609	0.01877	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-42	0.05221	0.0381	0.05	No	20	0.04516	0.01243	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-49	0.008211	0.006452	0.05	No	19	0.007332	0.001503	5.263	None	No	0.01	Param.
Thallium (mg/L)	YGWC-49	0.001	0.00009	0.002	No	17	0.0009465	0.0002207	94.12	None	No	0.01	NP (NDs)

Appendix IV Trend Tests Summary - Significant Results

Plant Yates Data: Plant Yates AMA-R6 Printed 4/25/2024, 4:26 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Cobalt (mg/L)	**YGWA-39 (bg)**	**-0.000705**	**-77**	**-66**	**Yes**	**21**	**42.86**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**YGWA-47 (bg)**	**-0.0008789**	**-124**	**-62**	**Yes**	**20**	**5**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**YGWA-30I (bg)**	**-0.004141**	**-285**	**-85**	**Yes**	**25**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**YGWA-18I (bg)**	**-0.0002243**	**-139**	**-85**	**Yes**	**25**	**8**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**YGWA-18S (bg)**	**-0.0002375**	**-101**	**-85**	**Yes**	**25**	**4**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**YGWA-39 (bg)**	**0.0009479**	**119**	**66**	**Yes**	**21**	**4.762**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**YGWC-42**	**0.00428**	**121**	**62**	**Yes**	**20**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**YGWA-47 (bg)**	**-0.0002448**	**-103**	**-62**	**Yes**	**20**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**YGWA-3D (bg)**	**0.0006885**	**155**	**85**	**Yes**	**25**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**YGWA-3I (bg)**	**0.001462**	**178**	**85**	**Yes**	**25**	**0**	**n/a**	**0.05**	**NP**
Selenium (mg/L)	**YGWA-17S (bg)**	**0**	**118**	**81**	**Yes**	**24**	**75**	**n/a**	**0.05**	**NP**
Selenium (mg/L)	**YGWC-38**	**-0.04086**	**-175**	**-62**	**Yes**	**20**	**0**	**n/a**	**0.05**	**NP**
Selenium (mg/L)	**PZ-37**	**-0.02079**	**-60**	**-49**	**Yes**	**17**	**0**	**n/a**	**0.05**	**NP**

Appendix IV Trend Tests Summary - All Results

Plant Yates Data: Plant Yates AMA-R6 Printed 4/25/2024, 4:26 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Cobalt (mg/L)	YAMW-3	-0.01387	-4	-10	No	5	0	n/a	0.05	NP
Cobalt (mg/L)	YGWA-17S (bg)	0	0	81	No	24	100	n/a	0.05	NP
Cobalt (mg/L)	YGWA-18I (bg)	0	0	85	No	25	100	n/a	0.05	NP
Cobalt (mg/L)	YGWA-18S (bg)	0	67	85	No	25	88	n/a	0.05	NP
Cobalt (mg/L)	YGWA-20S (bg)	0	0	85	No	25	100	n/a	0.05	NP
Cobalt (mg/L)	YGWA-21I (bg)	0.0005671	58	85	No	25	4	n/a	0.05	NP
Cobalt (mg/L)	**YGWA-39 (bg)**	**-0.000705**	**-77**	**-66**	**Yes**	**21**	**42.86**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	YGWA-40 (bg)	0	0	66	No	21	100	n/a	0.05	NP
Cobalt (mg/L)	YGWA-4I (bg)	0	70	85	No	25	60	n/a	0.05	NP
Cobalt (mg/L)	YGWA-5D (bg)	0	-11	-85	No	25	92	n/a	0.05	NP
Cobalt (mg/L)	YGWA-5I (bg)	0	0	85	No	25	100	n/a	0.05	NP
Cobalt (mg/L)	**YGWA-47 (bg)**	**-0.0008789**	**-124**	**-62**	**Yes**	**20**	**5**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	GWA-2 (bg)	-0.00001253	-68	-140	No	35	31.43	n/a	0.05	NP
Cobalt (mg/L)	YGWA-14S (bg)	0	0	85	No	25	100	n/a	0.05	NP
Cobalt (mg/L)	YGWA-1D (bg)	0	-85	-85	No	25	80	n/a	0.05	NP
Cobalt (mg/L)	YGWA-1I (bg)	0.00004051	28	85	No	25	8	n/a	0.05	NP
Cobalt (mg/L)	YGWA-2I (bg)	0	0	85	No	25	100	n/a	0.05	NP
Cobalt (mg/L)	**YGWA-30I (bg)**	**-0.004141**	**-285**	**-85**	**Yes**	**25**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	YGWA-3D (bg)	0	0	85	No	25	100	n/a	0.05	NP
Cobalt (mg/L)	YGWA-3I (bg)	0	0	85	No	25	100	n/a	0.05	NP
Lithium (mg/L)	YGWA-17S (bg)	0	7	81	No	24	91.67	n/a	0.05	NP
Lithium (mg/L)	**YGWA-18I (bg)**	**-0.0002243**	**-139**	**-85**	**Yes**	**25**	**8**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**YGWA-18S (bg)**	**-0.0002375**	**-101**	**-85**	**Yes**	**25**	**4**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	YGWA-20S (bg)	0	-16	-85	No	25	96	n/a	0.05	NP
Lithium (mg/L)	YGWA-21I (bg)	0.0001031	68	85	No	25	4	n/a	0.05	NP
Lithium (mg/L)	**YGWA-39 (bg)**	**0.0009479**	**119**	**66**	**Yes**	**21**	**4.762**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	YGWA-40 (bg)	0	-29	-66	No	21	90.48	n/a	0.05	NP
Lithium (mg/L)	YGWA-4I (bg)	-0.00009359	-49	-85	No	25	0	n/a	0.05	NP
Lithium (mg/L)	YGWA-5D (bg)	0.000166	78	85	No	25	0	n/a	0.05	NP
Lithium (mg/L)	YGWA-5I (bg)	0.00004063	68	85	No	25	12	n/a	0.05	NP
Lithium (mg/L)	**YGWC-42**	**0.00428**	**121**	**62**	**Yes**	**20**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**YGWA-47 (bg)**	**-0.0002448**	**-103**	**-62**	**Yes**	**20**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	GWA-2 (bg)	-0.0001531	-31	-62	No	20	35	n/a	0.05	NP
Lithium (mg/L)	YGWA-14S (bg)	0	0	85	No	25	100	n/a	0.05	NP
Lithium (mg/L)	YGWA-1D (bg)	-0.0005977	-85	-85	No	25	0	n/a	0.05	NP
Lithium (mg/L)	YGWA-1I (bg)	0	12	85	No	25	20	n/a	0.05	NP
Lithium (mg/L)	YGWA-2I (bg)	0.0000725	14	85	No	25	12	n/a	0.05	NP
Lithium (mg/L)	YGWA-30I (bg)	0	-76	-85	No	25	44	n/a	0.05	NP
Lithium (mg/L)	**YGWA-3D (bg)**	**0.0006885**	**155**	**85**	**Yes**	**25**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**YGWA-3I (bg)**	**0.001462**	**178**	**85**	**Yes**	**25**	**0**	**n/a**	**0.05**	**NP**
Selenium (mg/L)	**YGWA-17S (bg)**	**0**	**118**	**81**	**Yes**	**24**	**75**	**n/a**	**0.05**	**NP**
Selenium (mg/L)	YGWA-18I (bg)	0	0	85	No	25	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-18S (bg)	0	0	85	No	25	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-20S (bg)	0	0	85	No	25	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-21I (bg)	0	45	85	No	25	92	n/a	0.05	NP
Selenium (mg/L)	YGWA-39 (bg)	0	6	66	No	21	95.24	n/a	0.05	NP
Selenium (mg/L)	YGWA-40 (bg)	0	-3	-66	No	21	47.62	n/a	0.05	NP
Selenium (mg/L)	YGWA-4I (bg)	0	11	85	No	25	92	n/a	0.05	NP
Selenium (mg/L)	YGWA-5D (bg)	0	0	85	No	25	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-5I (bg)	0	22	85	No	25	96	n/a	0.05	NP
Selenium (mg/L)	**YGWC-38**	**-0.04086**	**-175**	**-62**	**Yes**	**20**	**0**	**n/a**	**0.05**	**NP**
Selenium (mg/L)	YGWA-47 (bg)	0	25	45	No	16	87.5	n/a	0.05	NP
Selenium (mg/L)	GWA-2 (bg)	0	0	1.96	No	41	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-14S (bg)	0	17	76	No	23	65.22	n/a	0.05	NP
Selenium (mg/L)	YGWA-1D (bg)	0	0	76	No	23	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-1I (bg)	0	0	76	No	23	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-2I (bg)	0	0	76	No	23	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-30I (bg)	0	0	76	No	23	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-3D (bg)	0	0	76	No	23	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-3I (bg)	0	0	76	No	23	100	n/a	0.05	NP
Selenium (mg/L)	**PZ-37**	**-0.02079**	**-60**	**-49**	**Yes**	**17**	**0**	**n/a**	**0.05**	**NP**

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FIGURE A.

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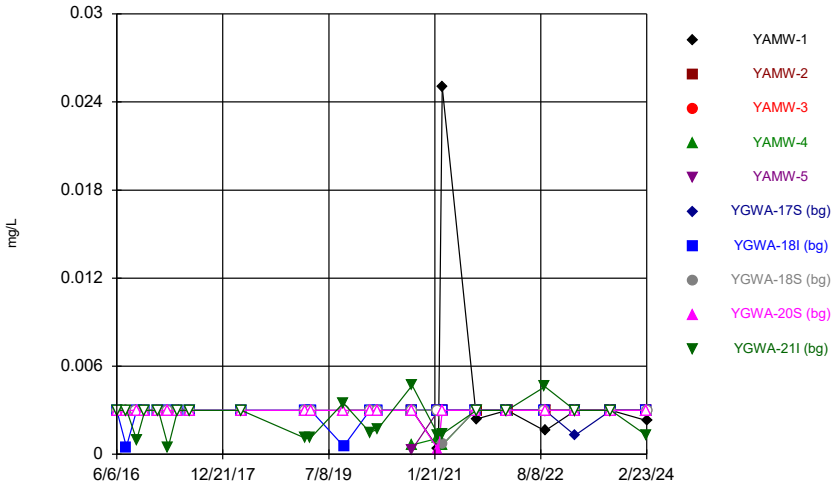

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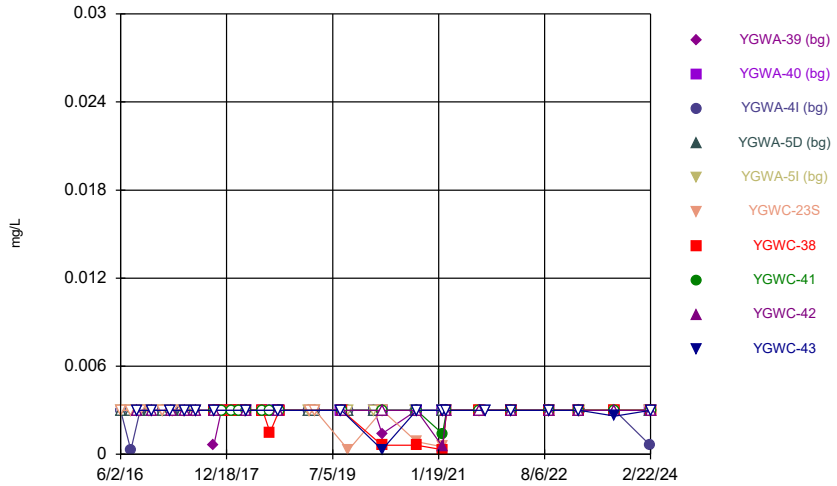

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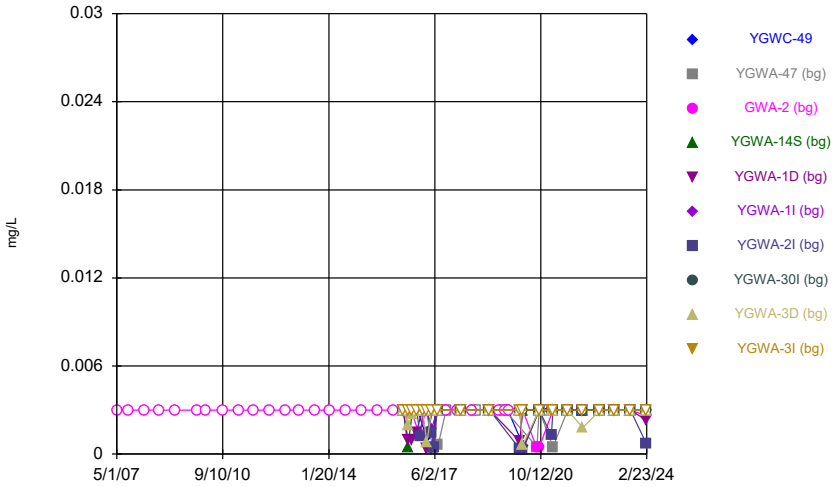

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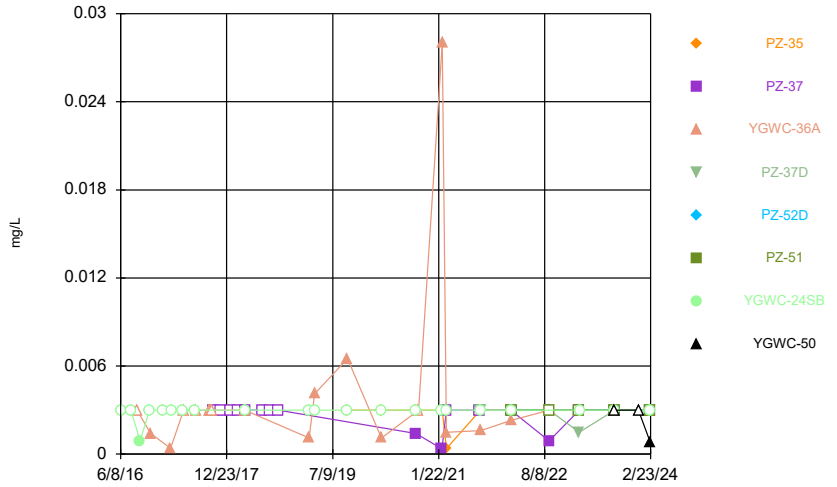

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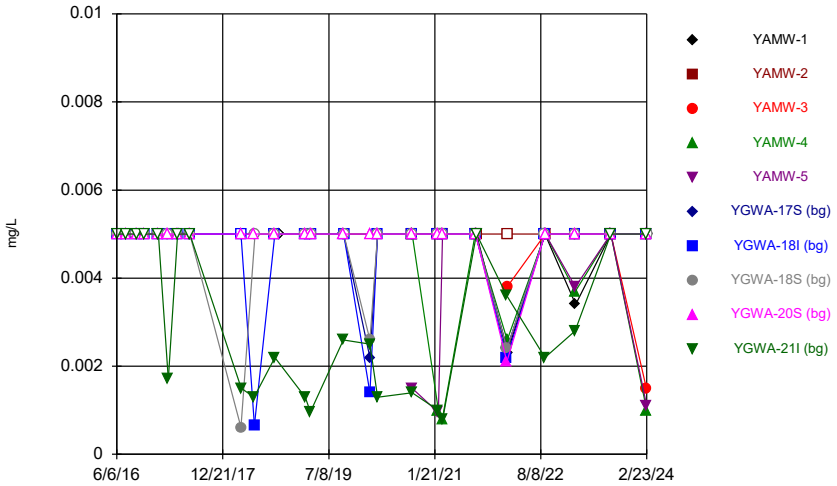

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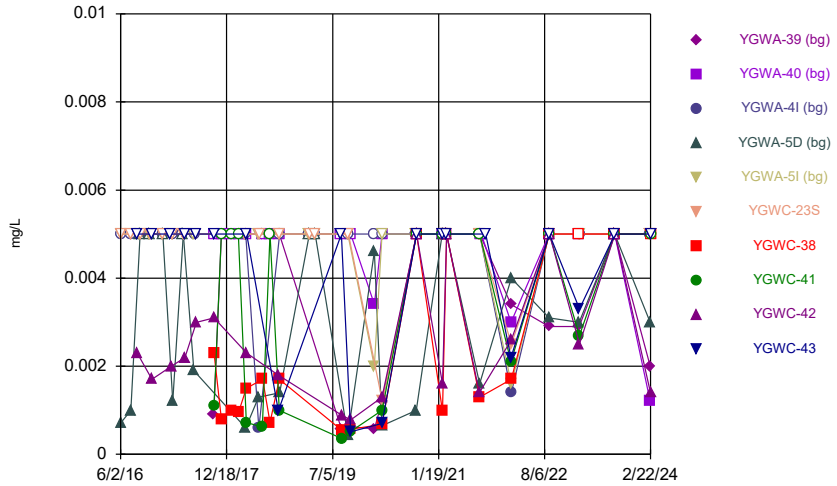

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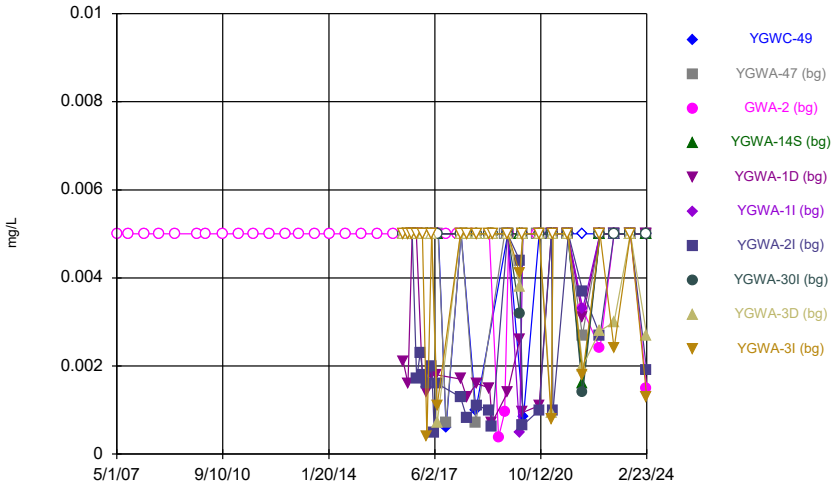

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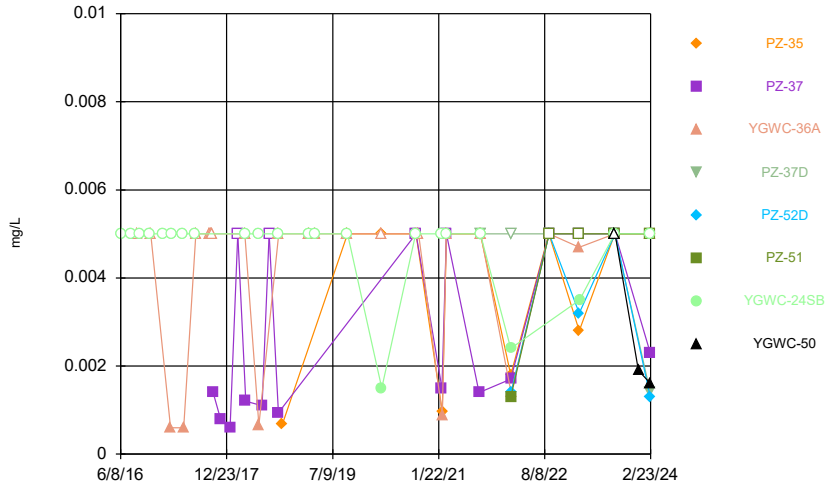

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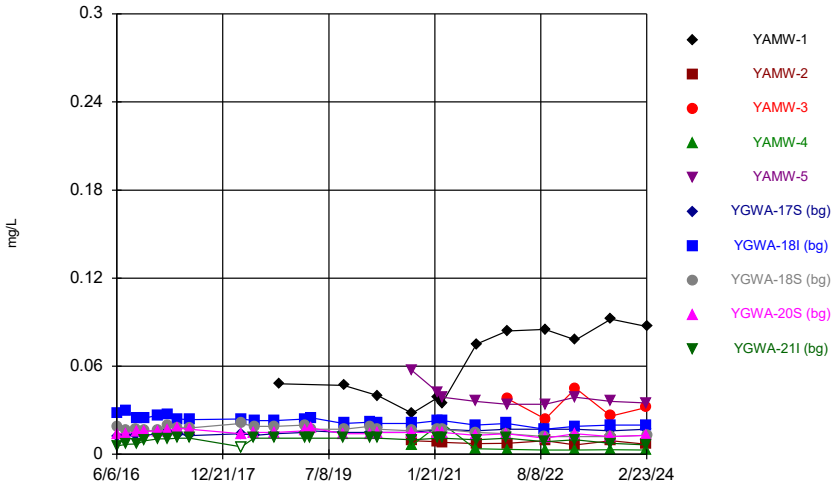

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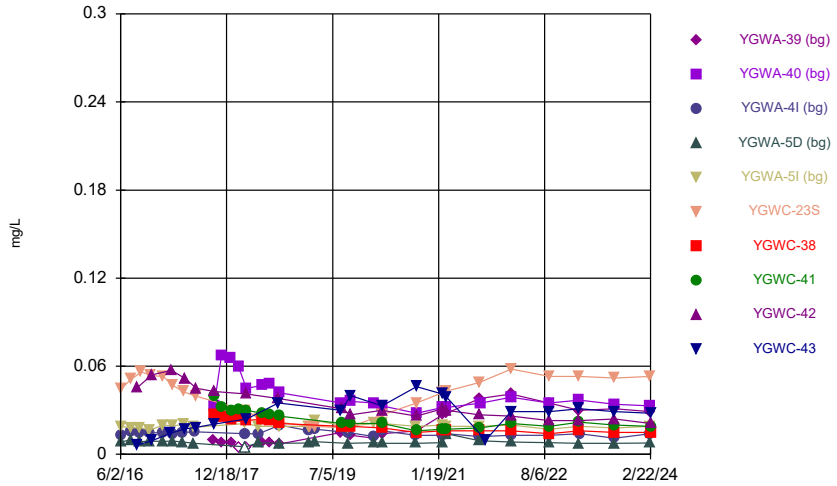

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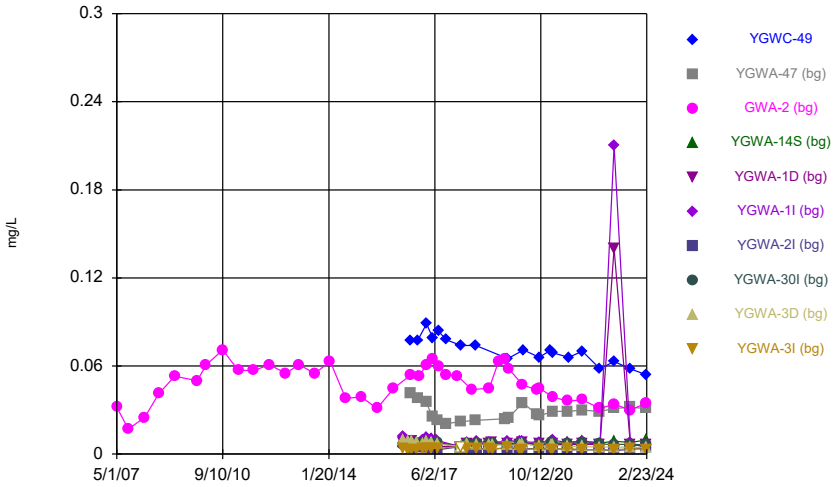

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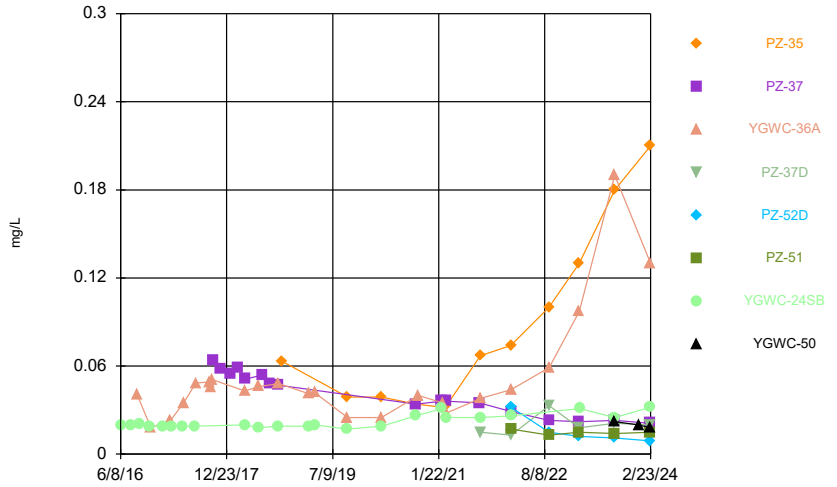

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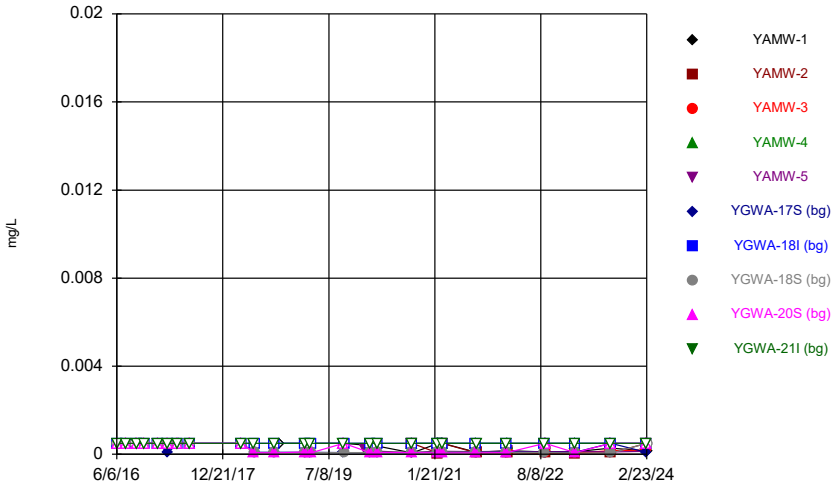

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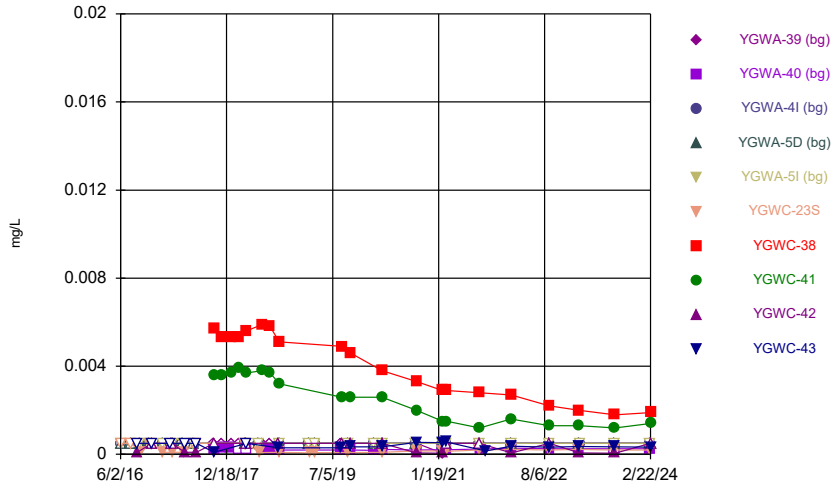

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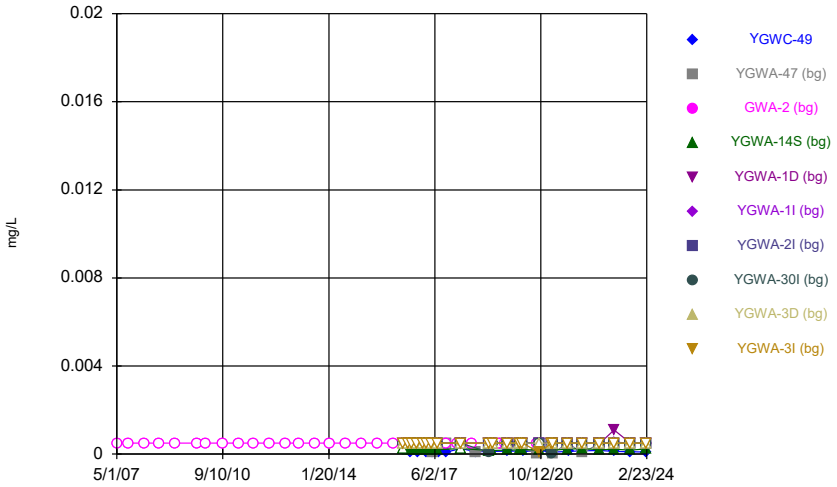

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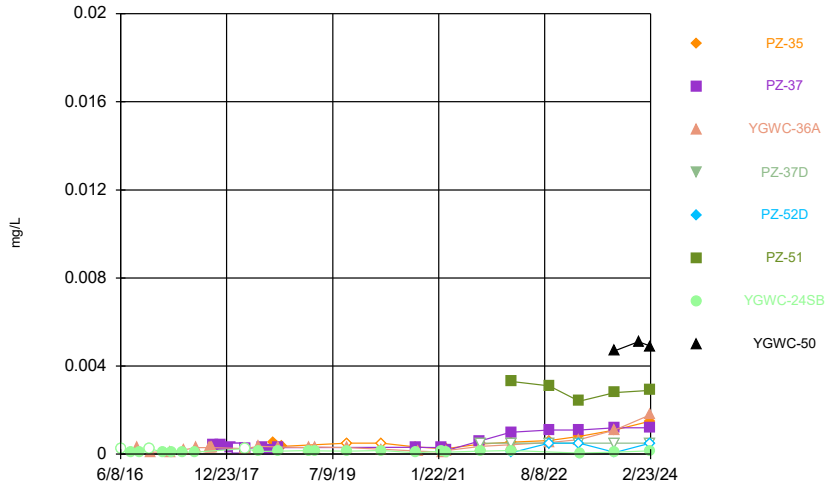
Time Series



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Plant Yates Data: Plant Yates AMA-R6

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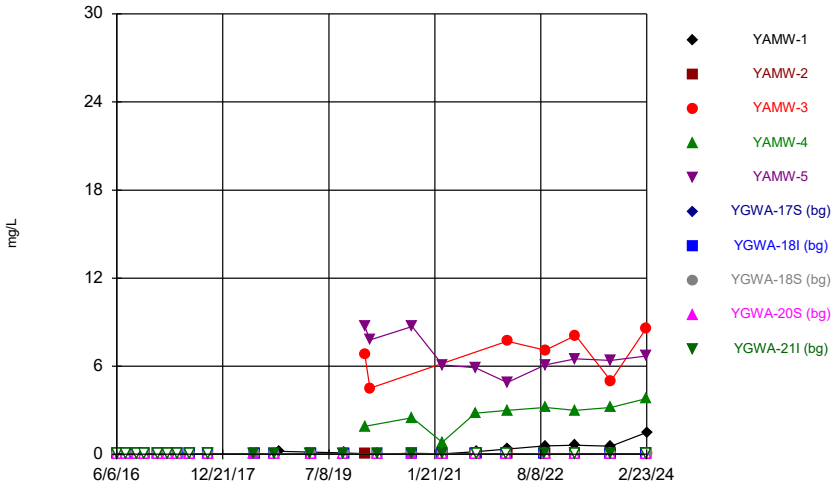
Time Series



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Plant Yates Data: Plant Yates AMA-R6

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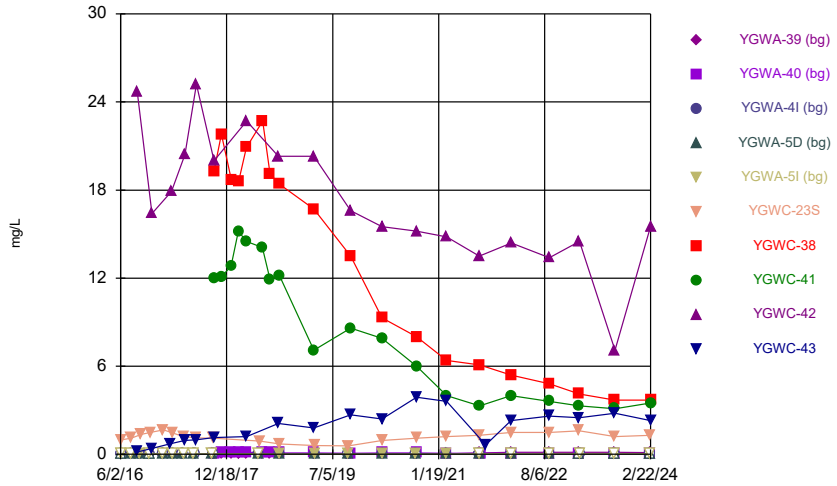
Hollow symbols indicate censored values.

Time Series



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Plant Yates Data: Plant Yates AMA-R6

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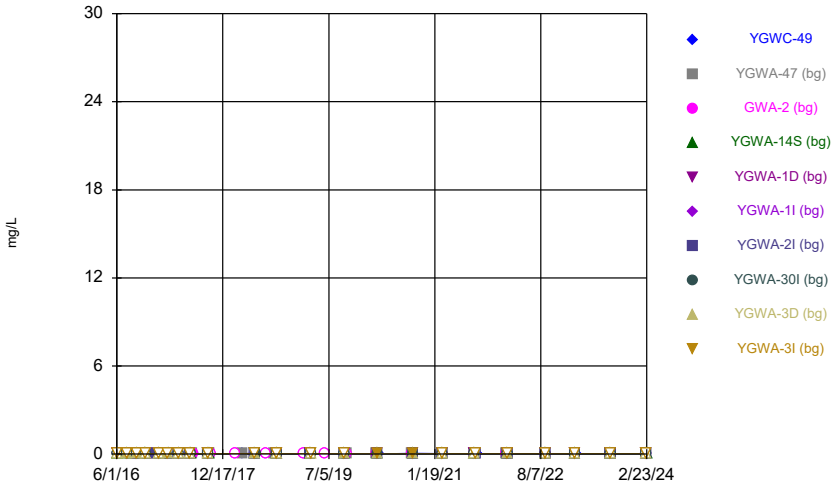
Time Series



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Plant Yates Data: Plant Yates AMA-R6

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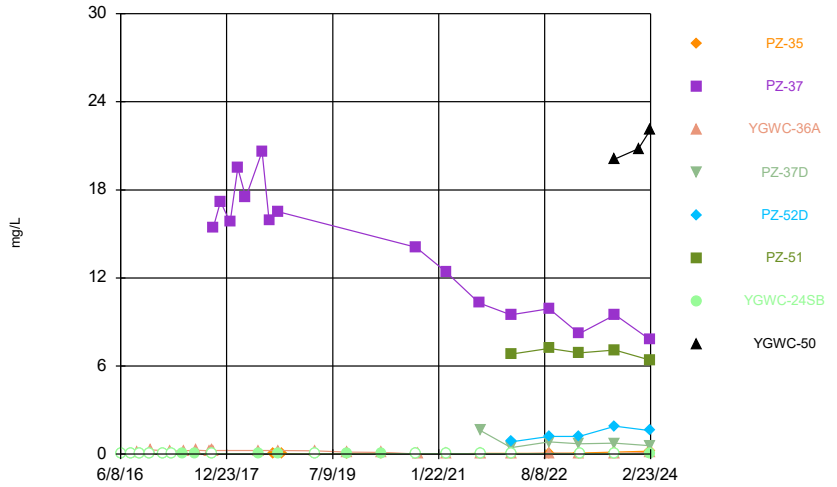
Time Series



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Plant Yates Data: Plant Yates AMA-R6

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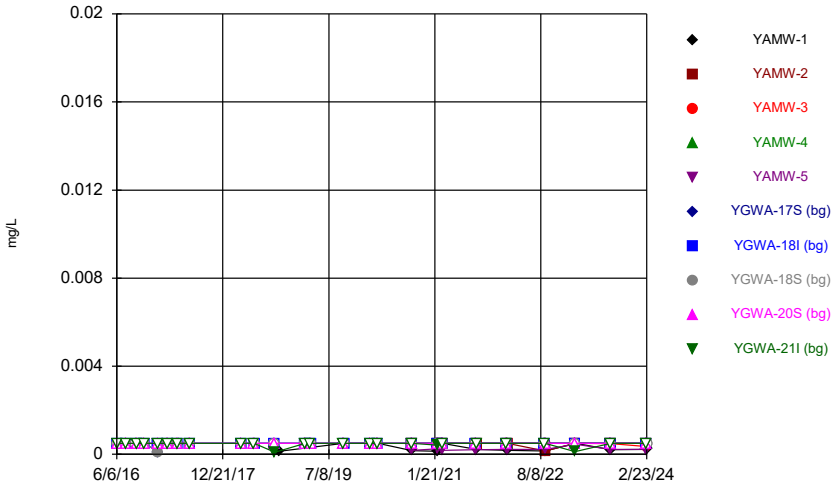
Time Series



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Plant Yates Data: Plant Yates AMA-R6

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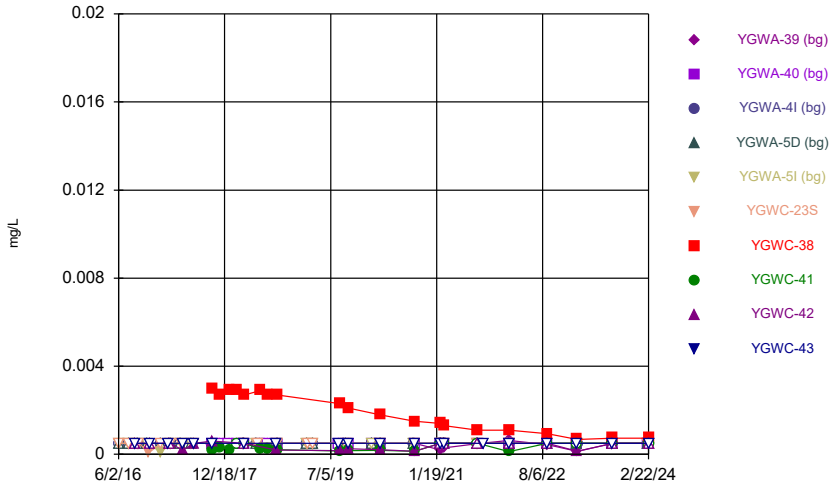
Time Series



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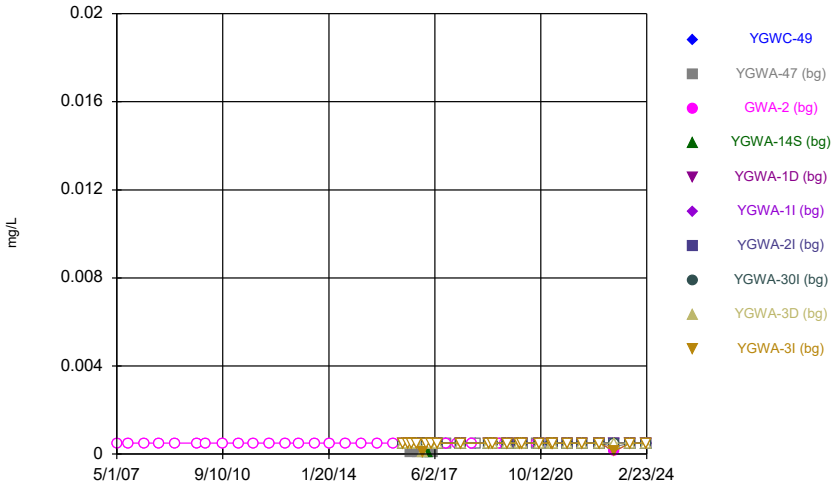
Time Series



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Plant Yates Data: Plant Yates AMA-R6

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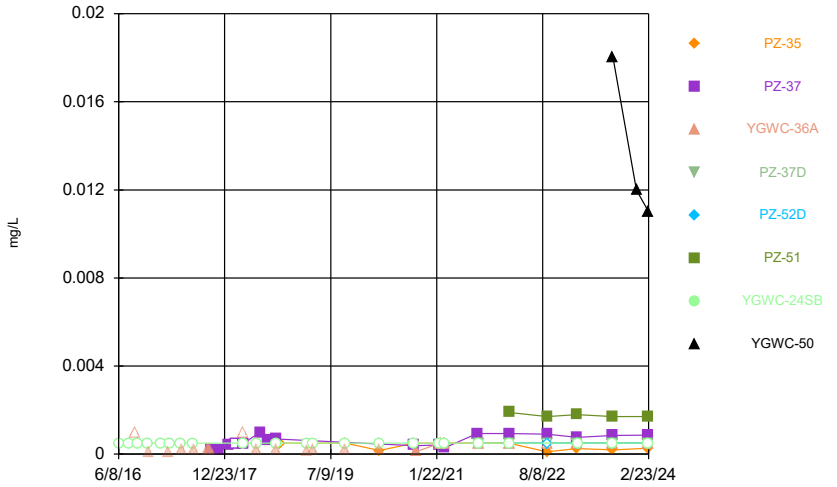
Time Series



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Plant Yates Data: Plant Yates AMA-R6

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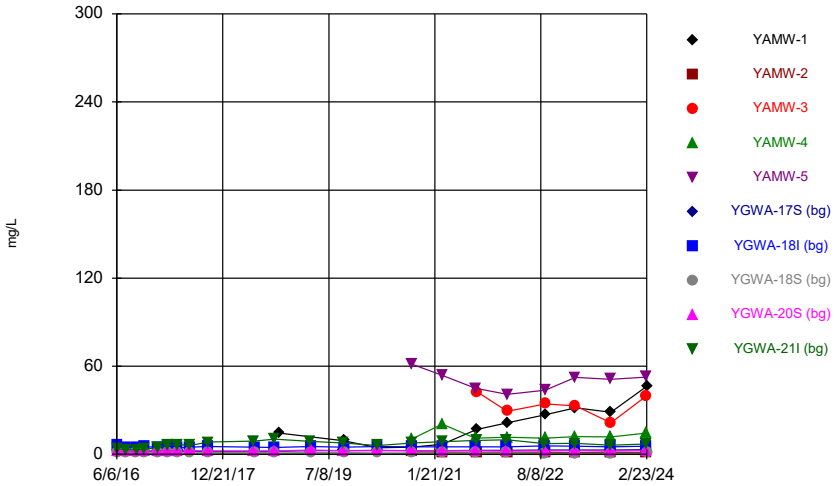
Time Series



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Plant Yates Data: Plant Yates AMA-R6

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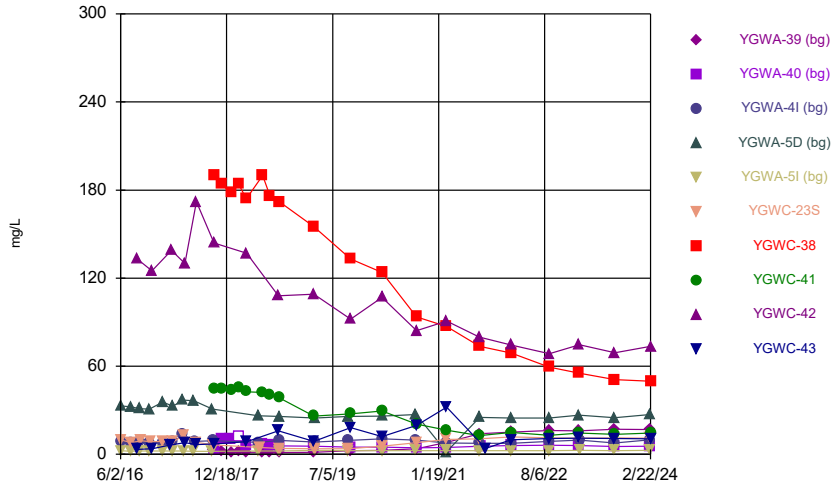

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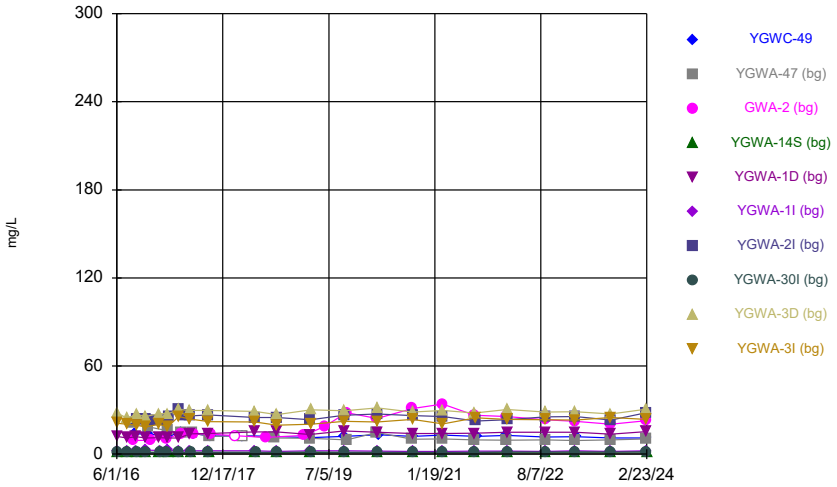

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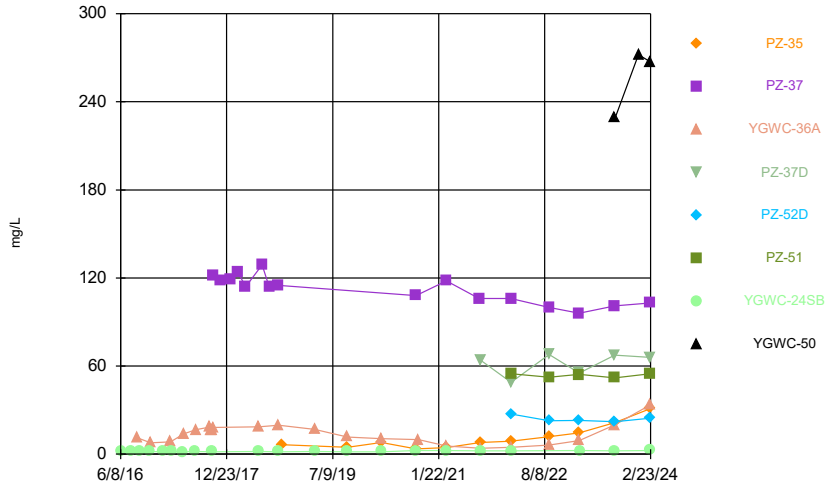
Time Series



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Plant Yates Data: Plant Yates AMA-R6

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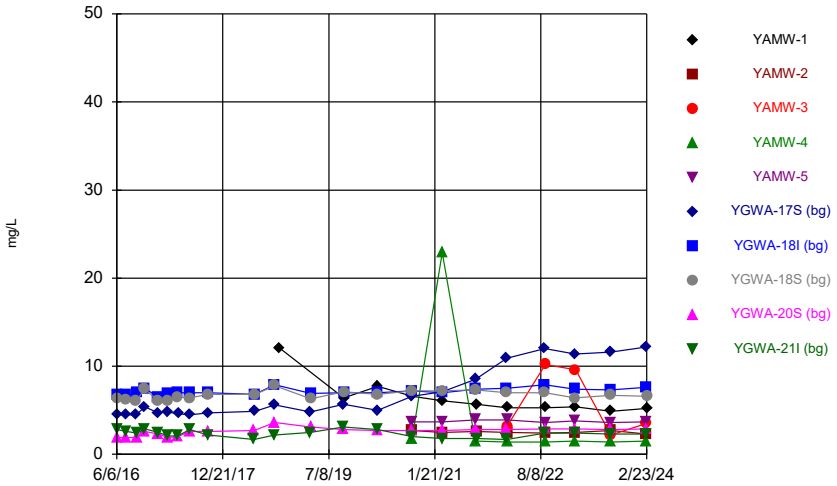
Time Series



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Plant Yates Data: Plant Yates AMA-R6

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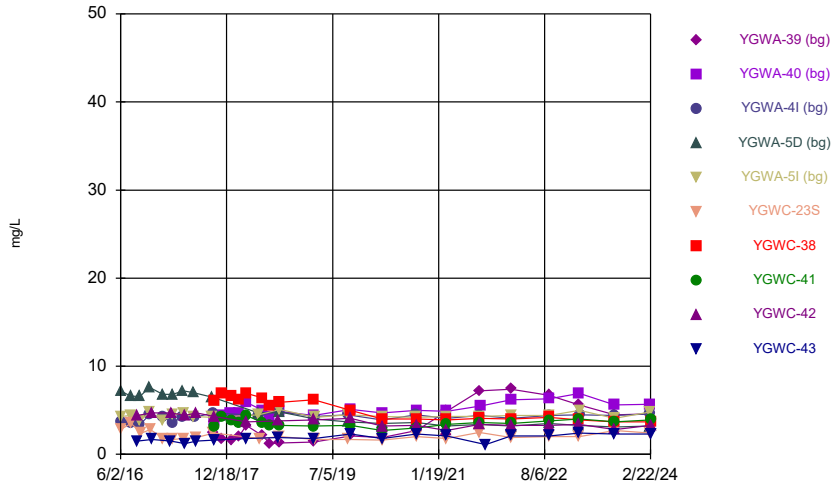
Time Series



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Plant Yates Data: Plant Yates AMA-R6

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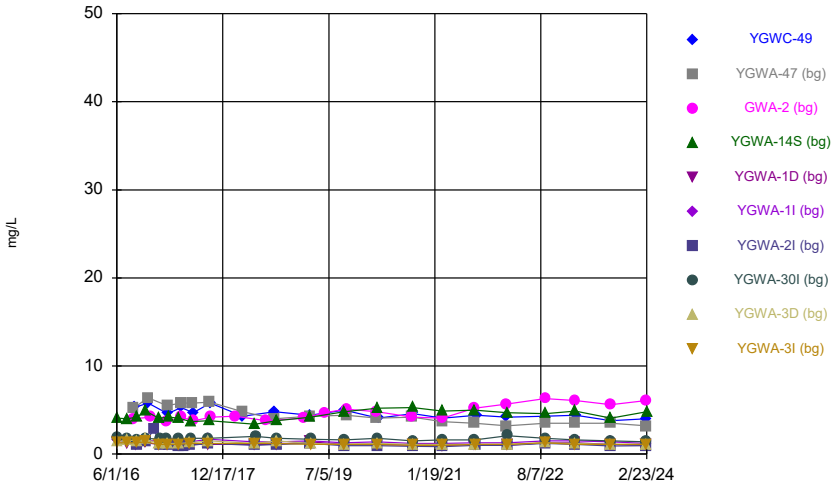
Time Series



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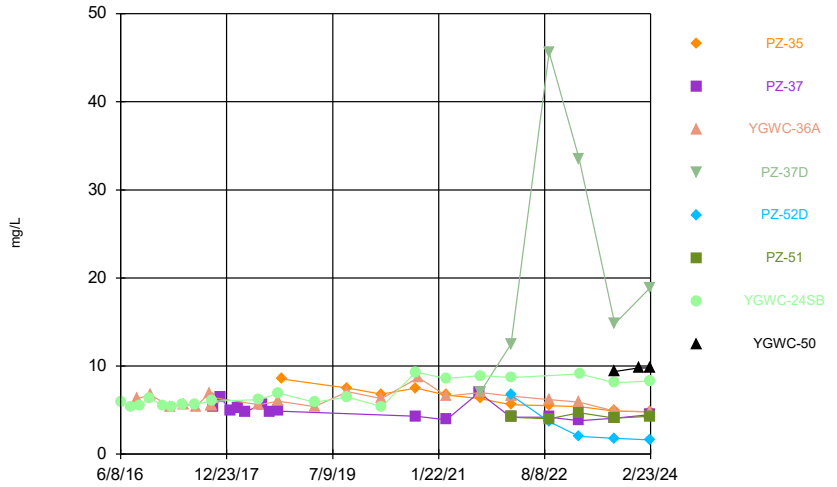
Time Series



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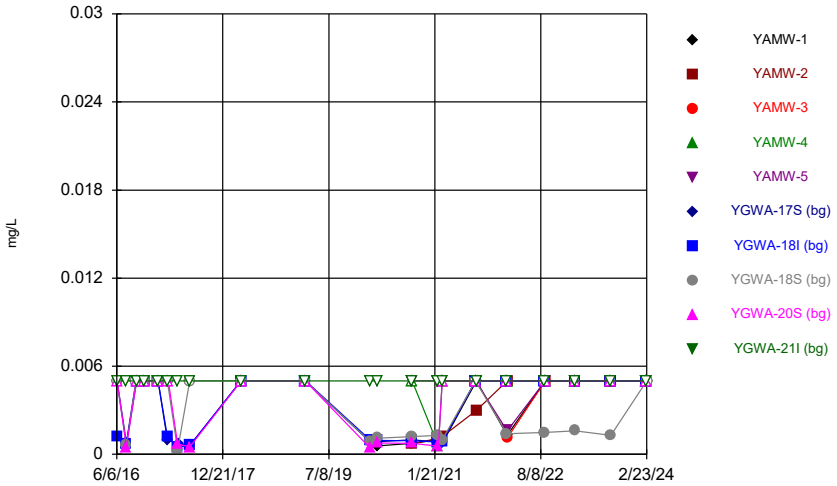
Time Series



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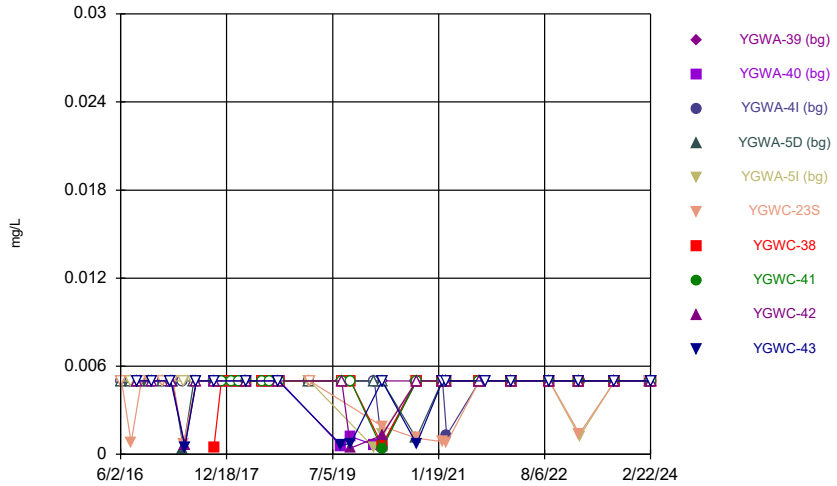
Time Series



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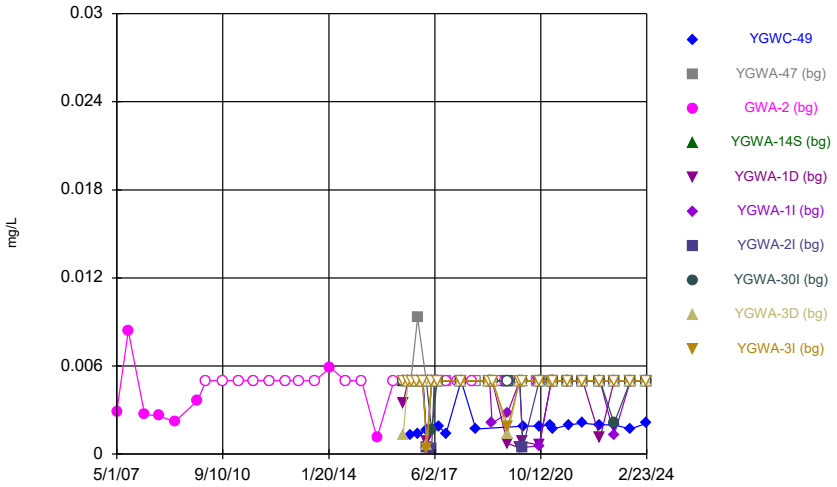

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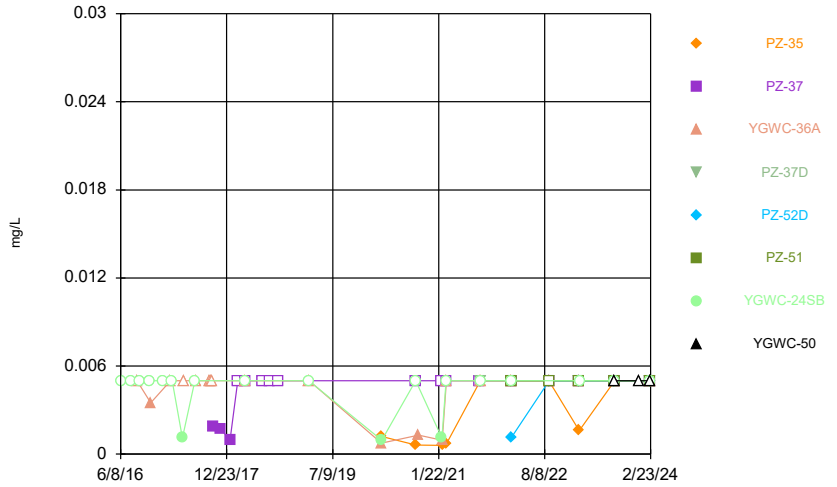

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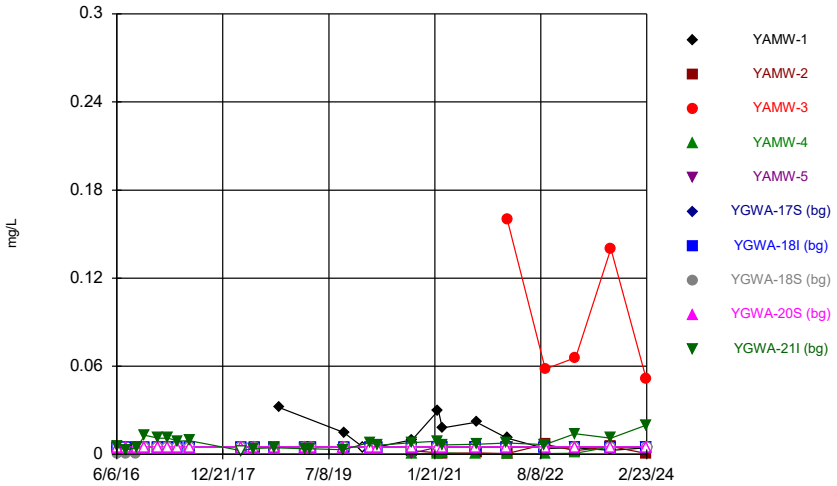

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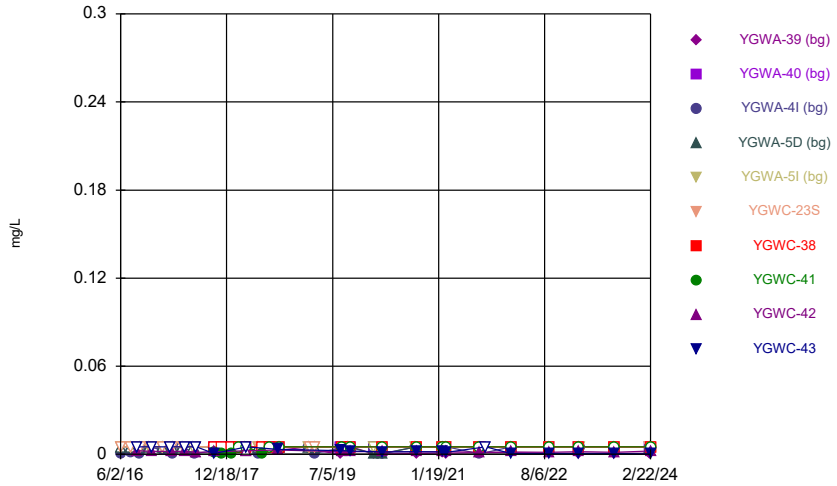

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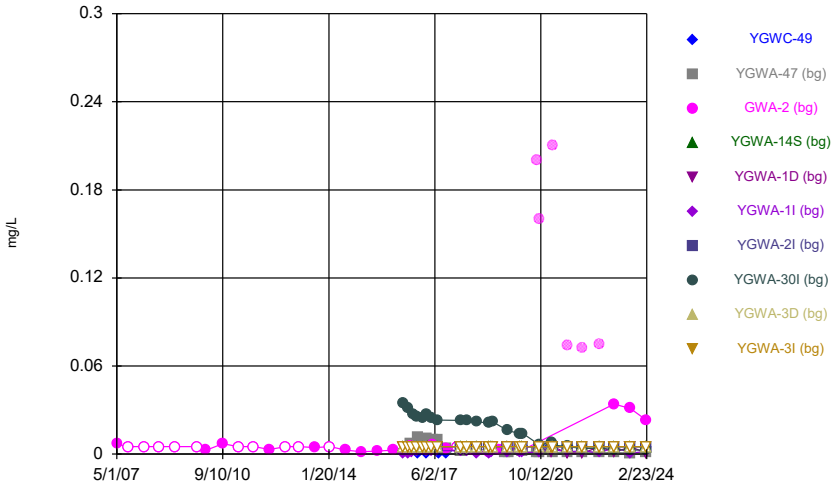

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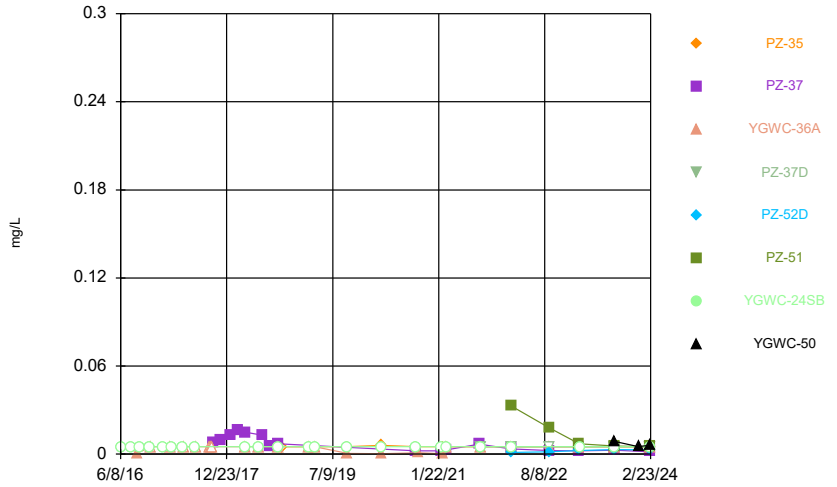

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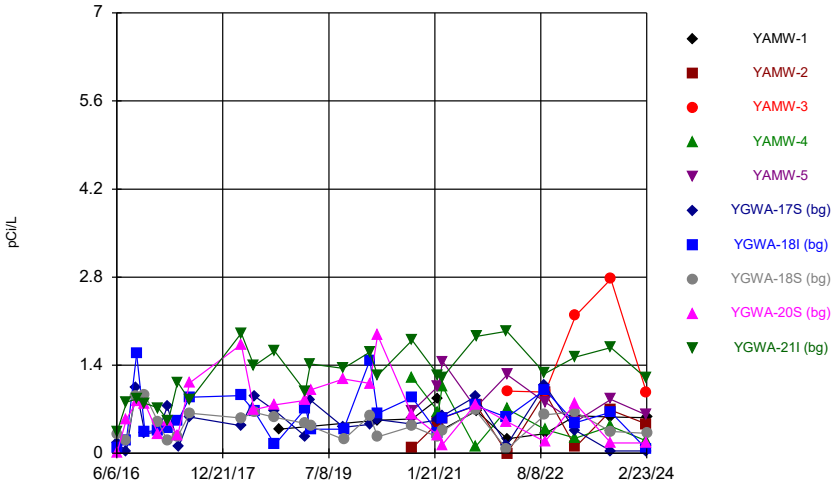
Plant Yates Data: Plant Yates AMA-R6

Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 4/25/2024 2:25 PM
Plant Yates Data: Plant Yates AMA-R6

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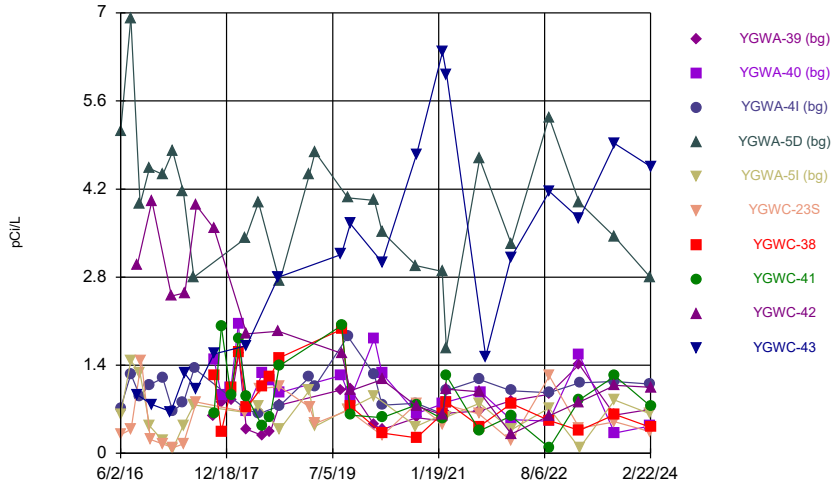
Time Series



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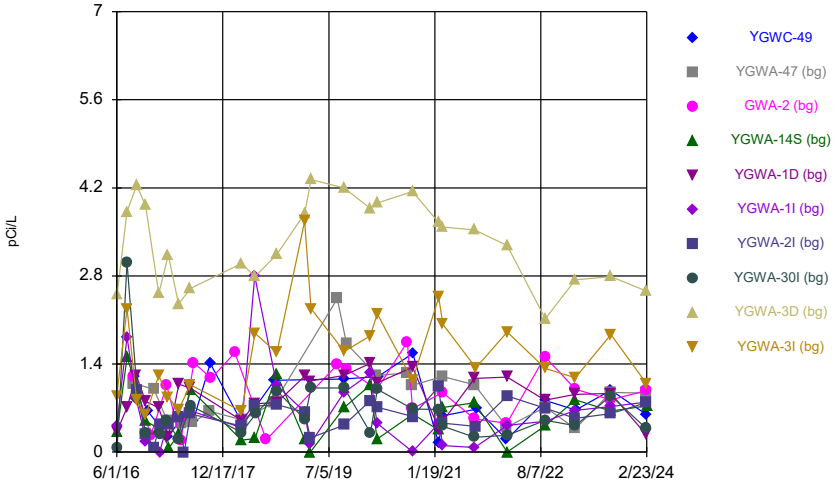
Time Series



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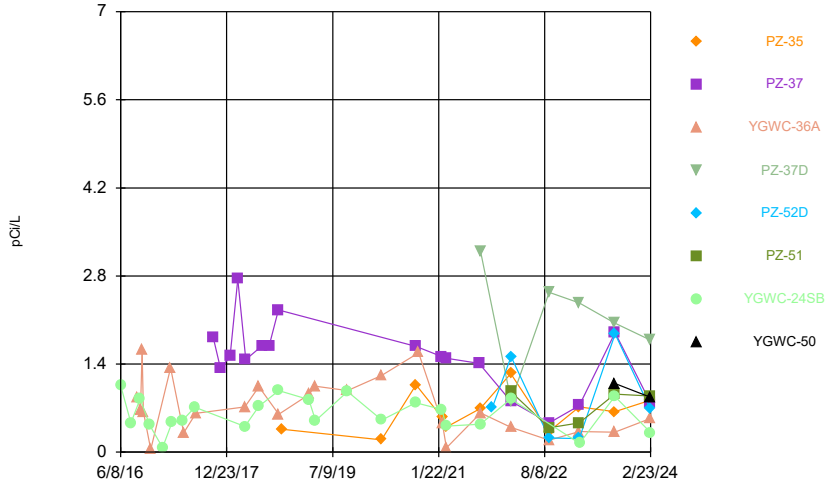
Time Series



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Plant Yates Data: Plant Yates AMA-R6

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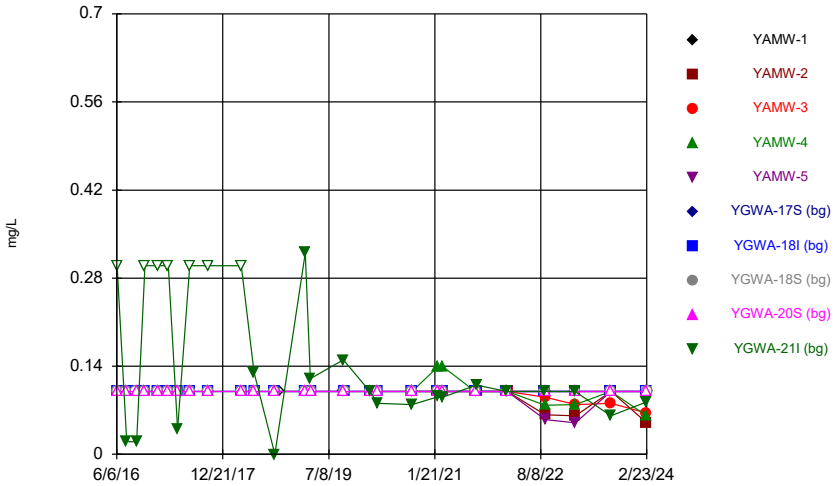
Hollow symbols indicate censored values.

Time Series



Constituent: Fluoride Analysis Run 4/25/2024 2:25 PM
Plant Yates Data: Plant Yates AMA-R6

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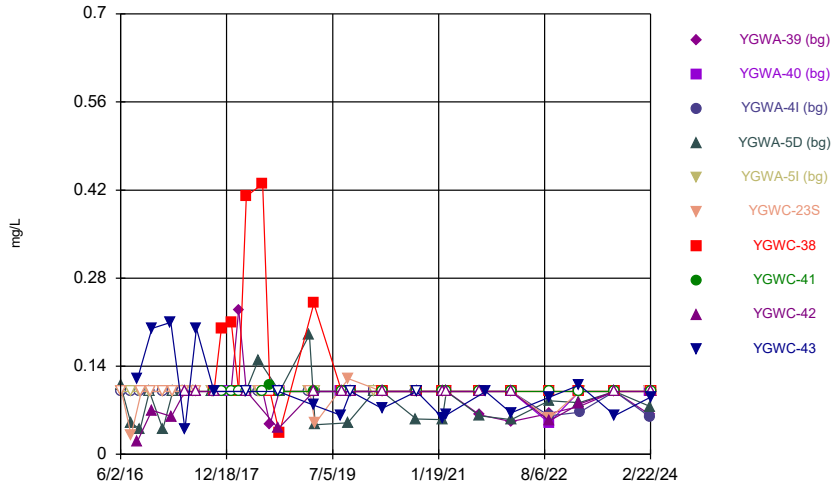
Hollow symbols indicate censored values.

Time Series



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Plant Yates Data: Plant Yates AMA-R6

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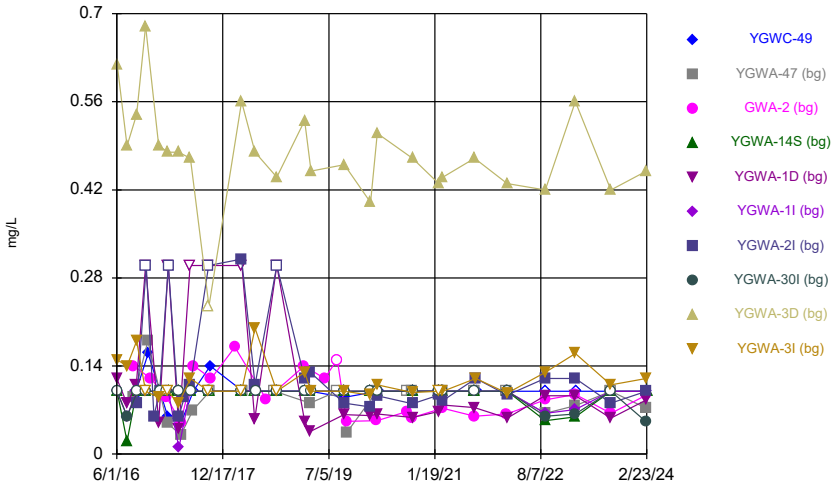
Time Series



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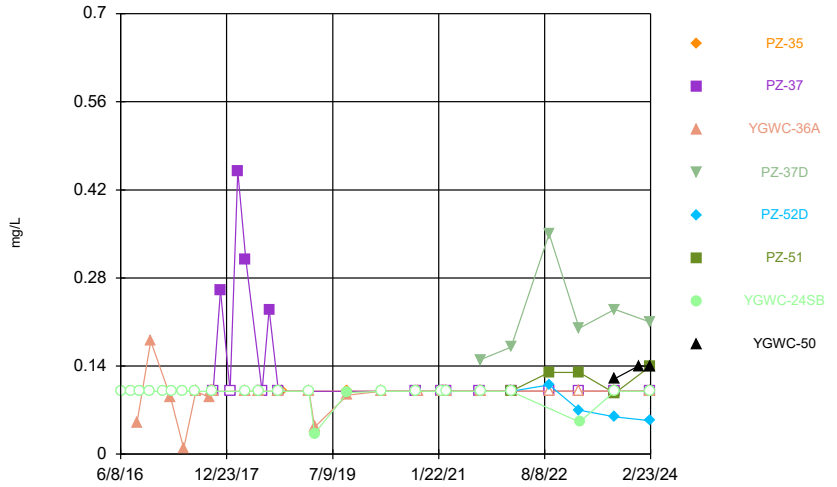
Time Series



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Plant Yates Data: Plant Yates AMA-R6

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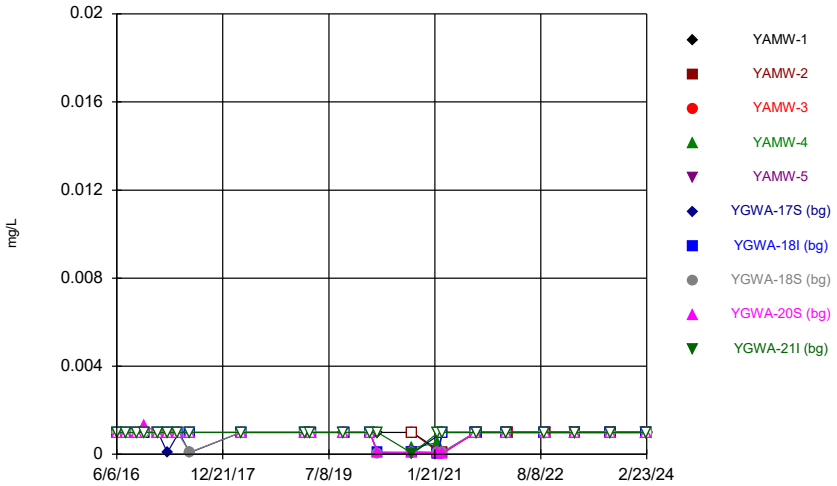
Time Series



Constituent: Lead Analysis Run 4/25/2024 2:25 PM
Plant Yates Data: Plant Yates AMA-R6

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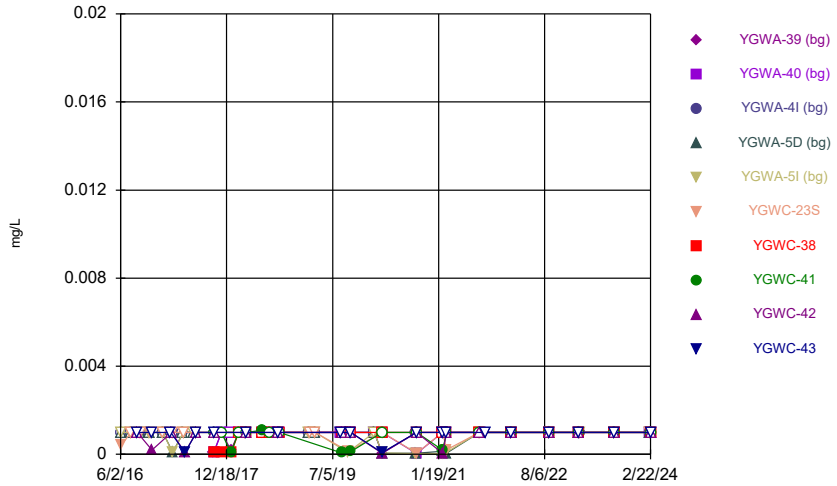
Time Series



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Sanitas™ v.10.0.16e Software licensed to . UG
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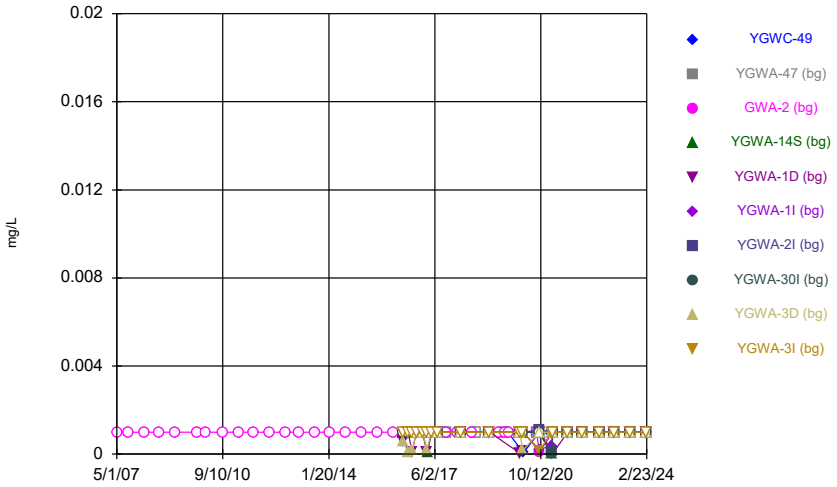
Time Series



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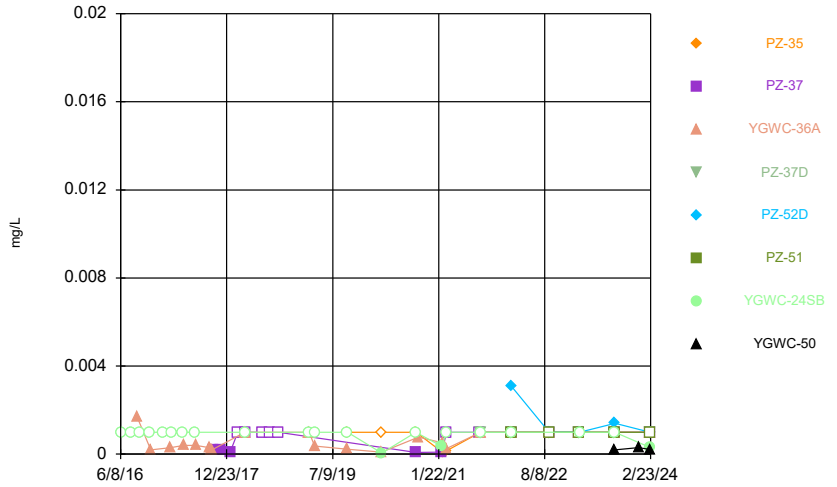

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Plant Yates Data: Plant Yates AMA-R6

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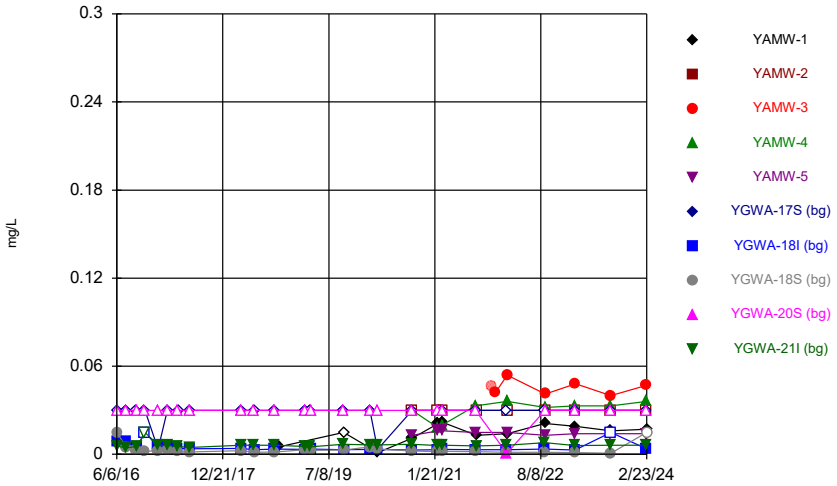
Time Series



Constituent: Lithium Analysis Run 4/25/2024 2:25 PM
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Sanitas™ v.10.0.16e Software licensed to . UG
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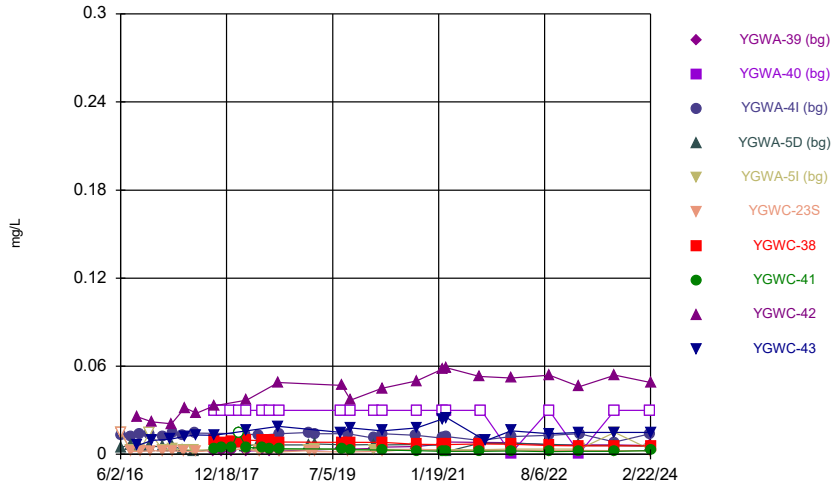

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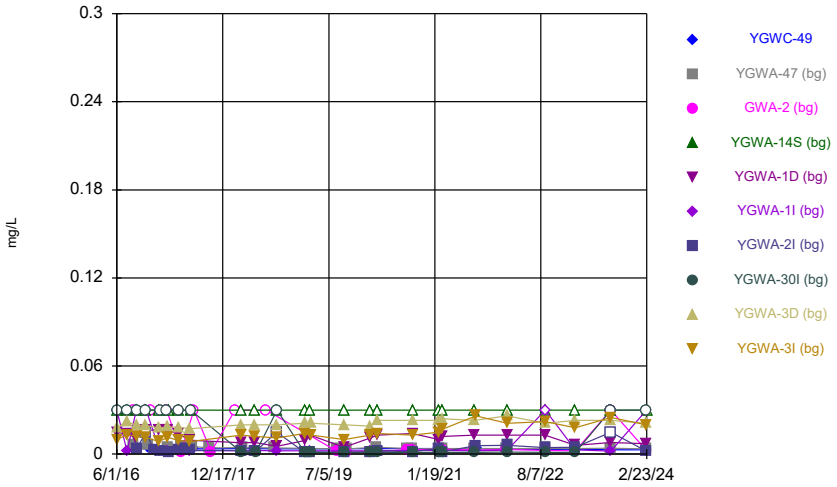
Time Series



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Plant Yates Data: Plant Yates AMA-R6

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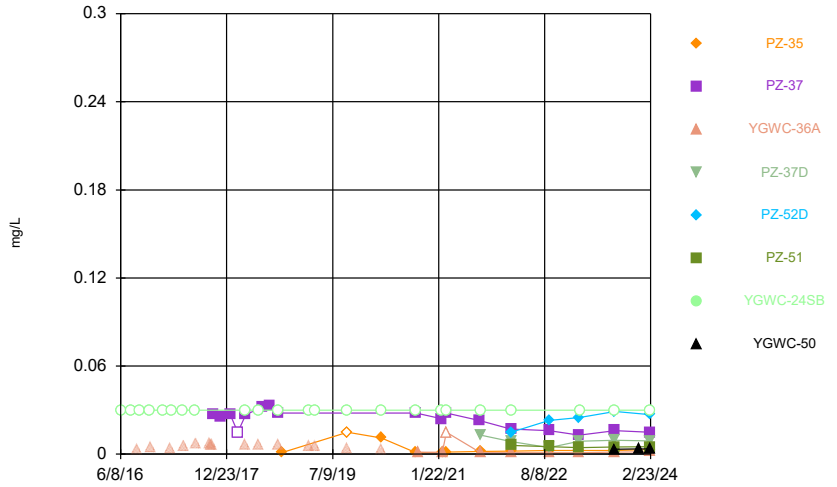

Constituent: Lithium Analysis Run 4/25/2024 2:25 PM
Plant Yates Data: Plant Yates AMA-R6

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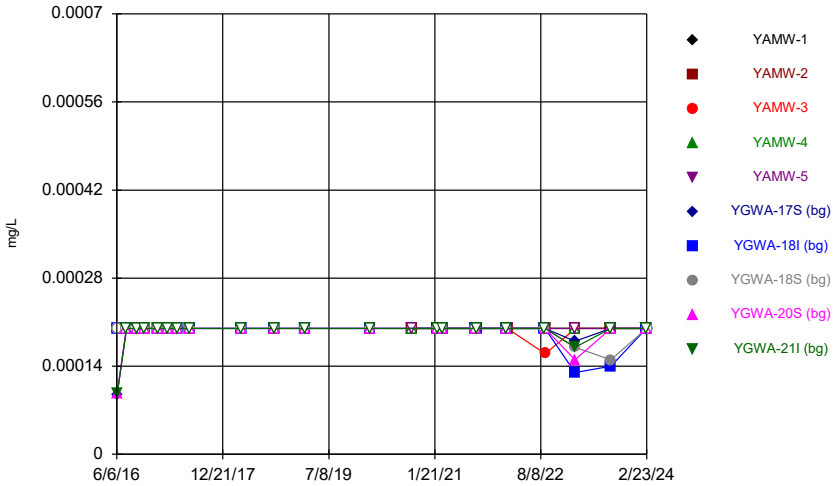
Hollow symbols indicate censored values.

Time Series



Constituent: Mercury Analysis Run 4/25/2024 2:25 PM
Plant Yates Data: Plant Yates AMA-R6

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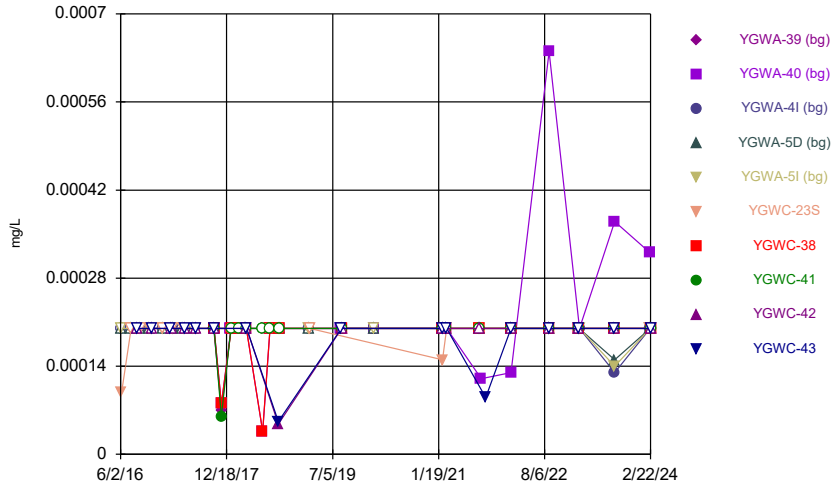
Hollow symbols indicate censored values.

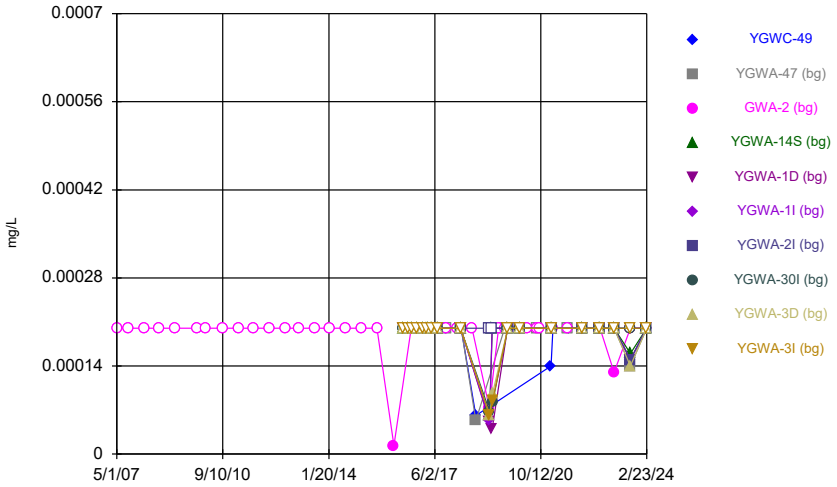
Time Series



Constituent: Mercury Analysis Run 4/25/2024 2:25 PM
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

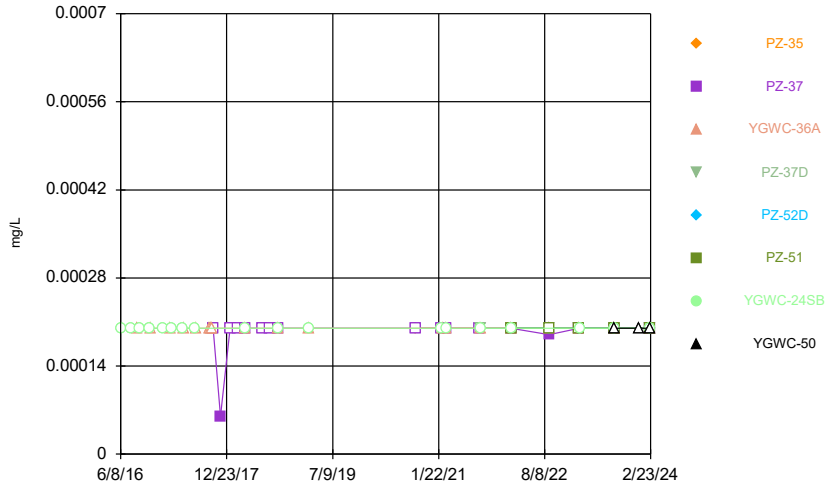
Time Series



Constituent: Mercury Analysis Run 4/25/2024 2:25 PM
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

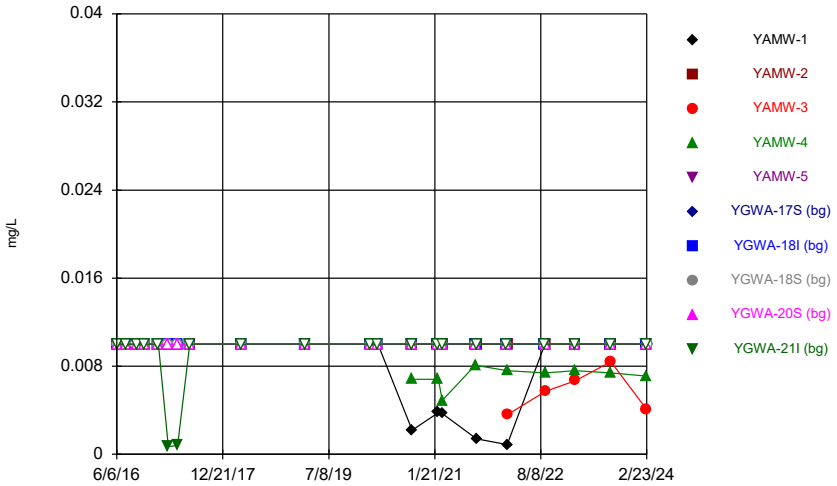
Time Series



Constituent: Mercury Analysis Run 4/25/2024 2:25 PM
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

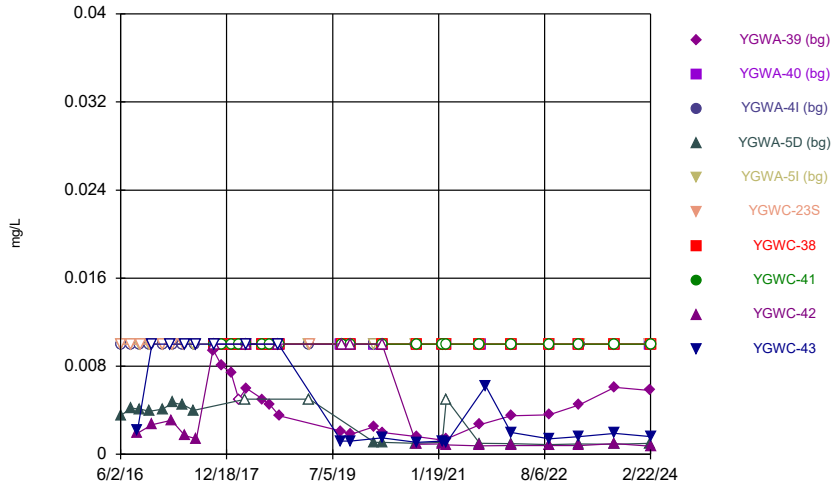
Time Series



Constituent: Molybdenum Analysis Run 4/25/2024 2:25 PM
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

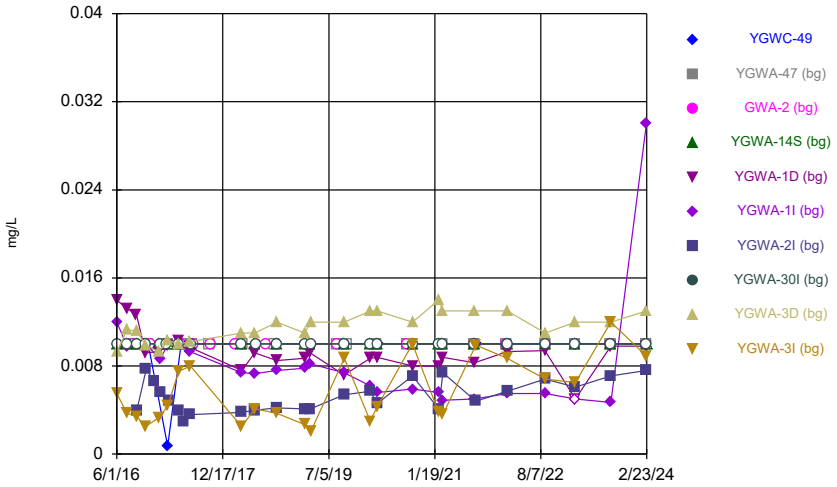
Time Series



Constituent: Molybdenum Analysis Run 4/25/2024 2:25 PM
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

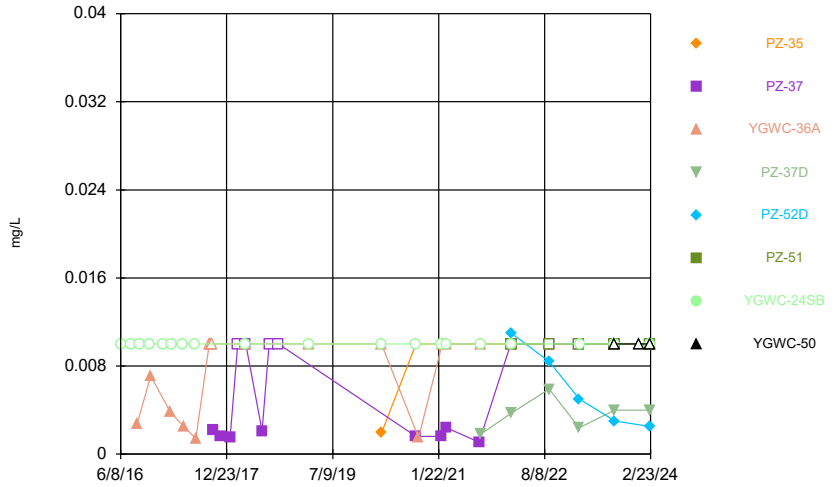
Time Series



Constituent: Molybdenum Analysis Run 4/25/2024 2:25 PM
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

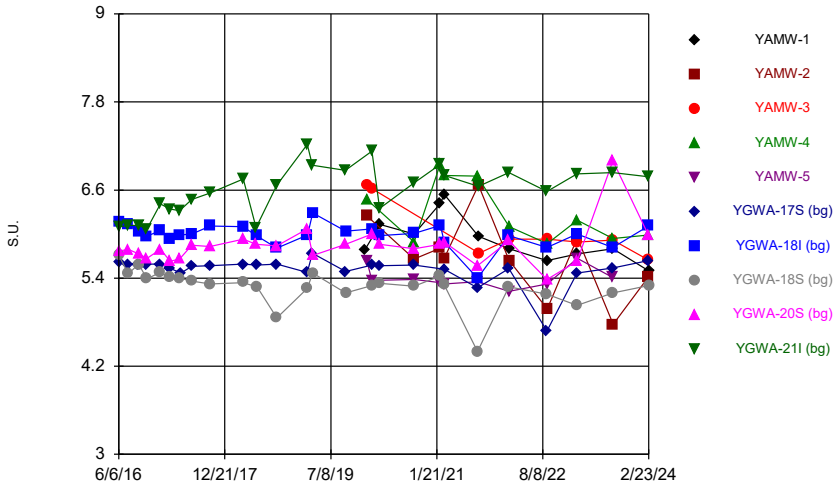
Time Series



Constituent: Molybdenum Analysis Run 4/25/2024 2:25 PM
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG

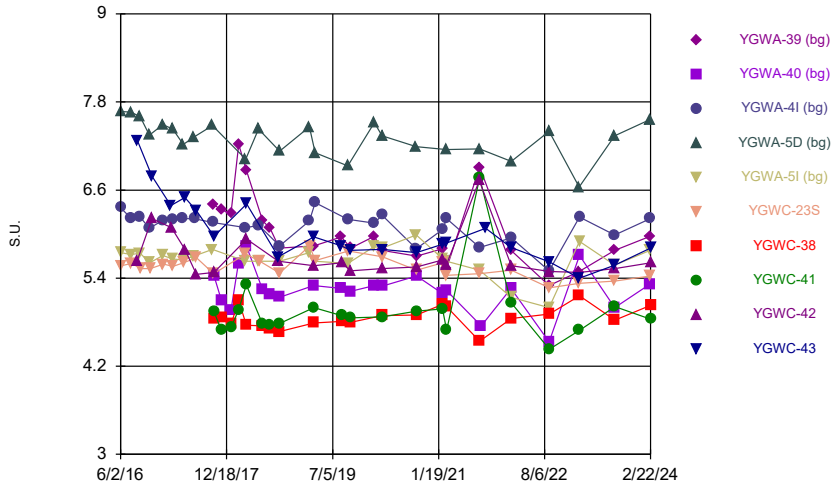
Time Series



Constituent: pH Analysis Run 4/25/2024 2:25 PM
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG

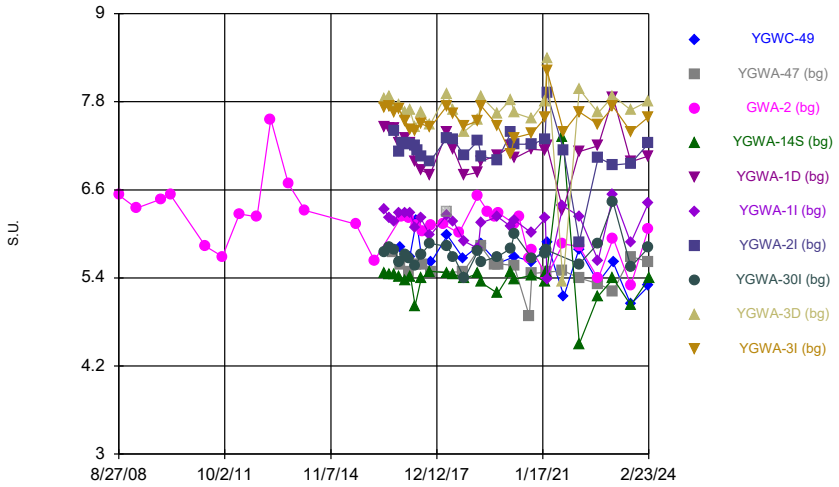
Time Series



Constituent: pH Analysis Run 4/25/2024 2:25 PM
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG

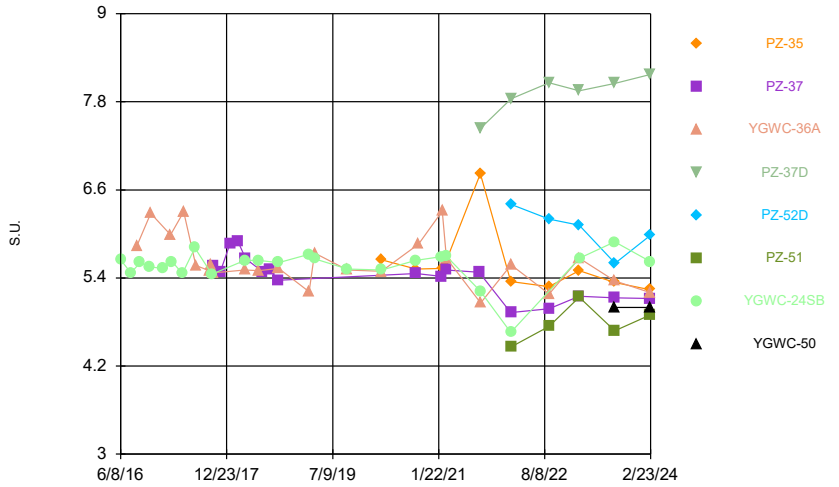
Time Series



Constituent: pH Analysis Run 4/25/2024 2:25 PM
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG

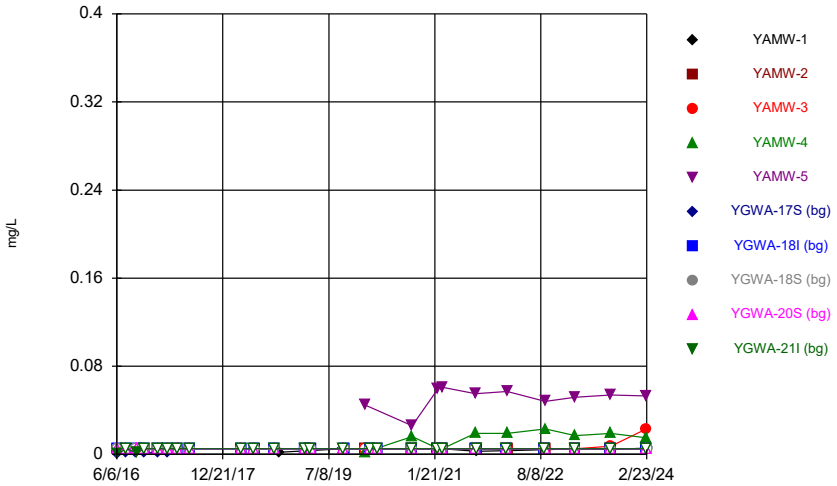
Time Series



Constituent: pH Analysis Run 4/25/2024 2:25 PM
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

Time Series



Constituent: Selenium Analysis Run 4/25/2024 2:25 PM
Plant Yates Data: Plant Yates AMA-R6

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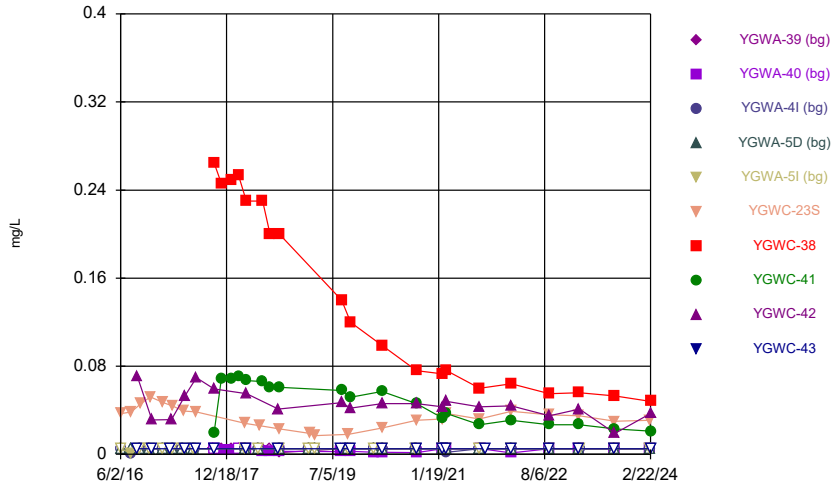
Hollow symbols indicate censored values.

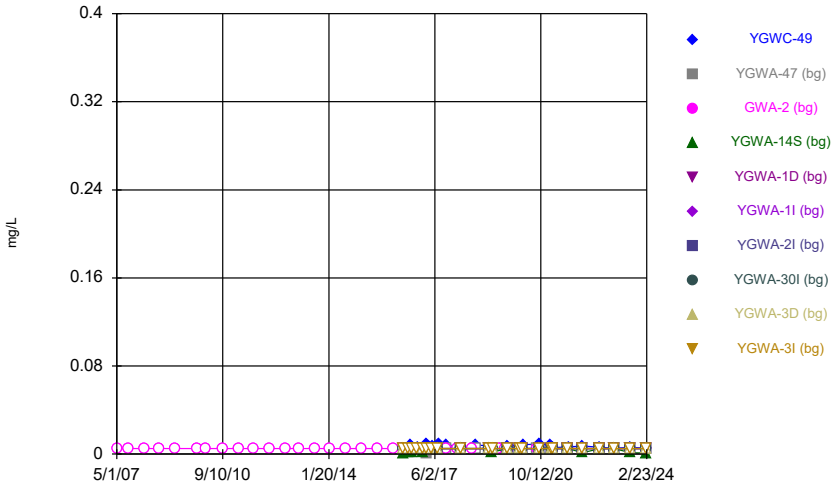
Time Series



Constituent: Selenium Analysis Run 4/25/2024 2:25 PM
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

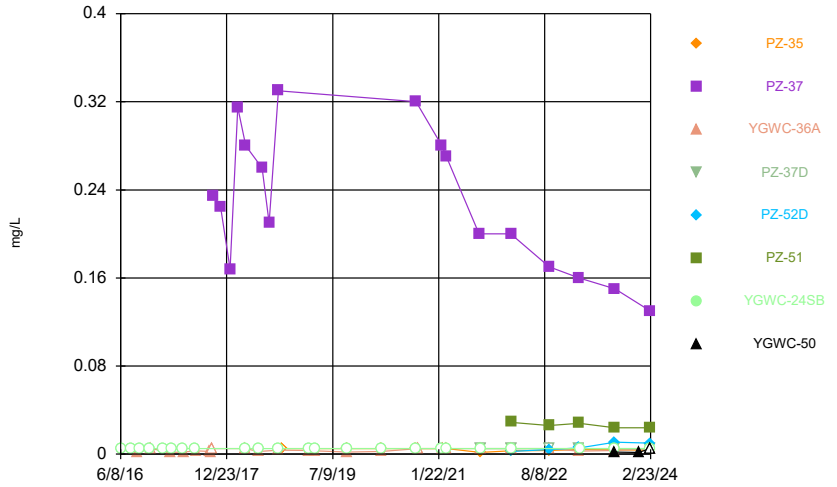
Time Series



Constituent: Selenium Analysis Run 4/25/2024 2:25 PM
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

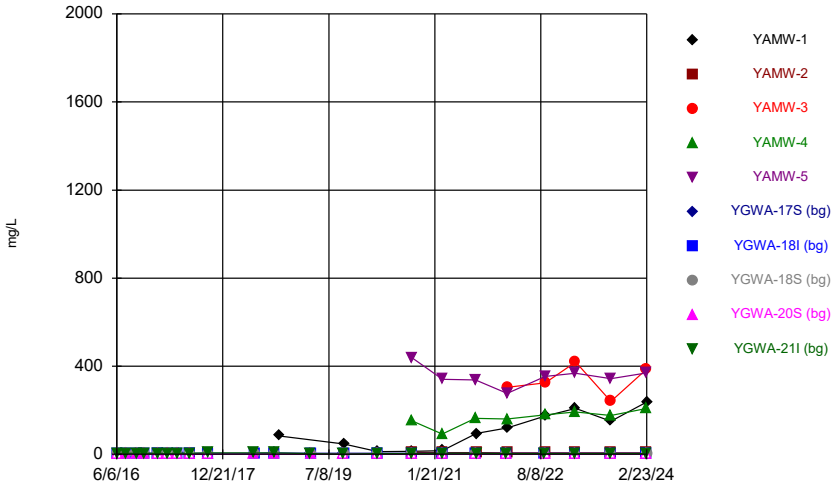
Time Series



Constituent: Selenium Analysis Run 4/25/2024 2:25 PM
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

Time Series



Constituent: Sulfate Analysis Run 4/25/2024 2:25 PM
Plant Yates Data: Plant Yates AMA-R6

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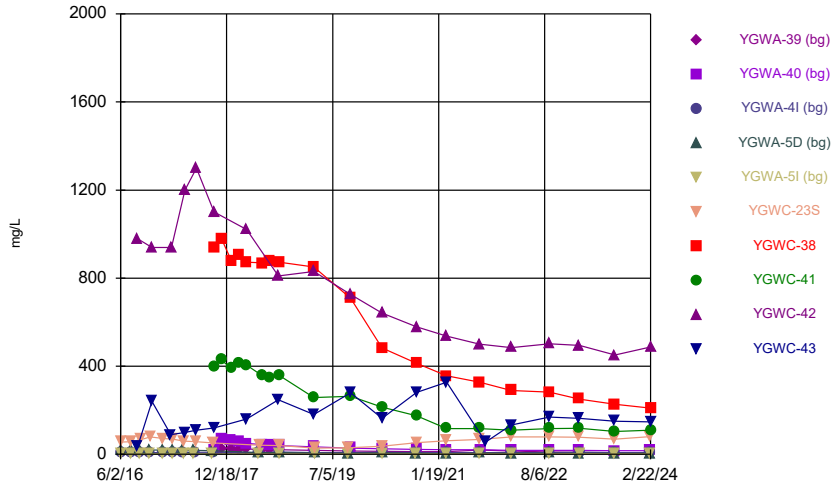
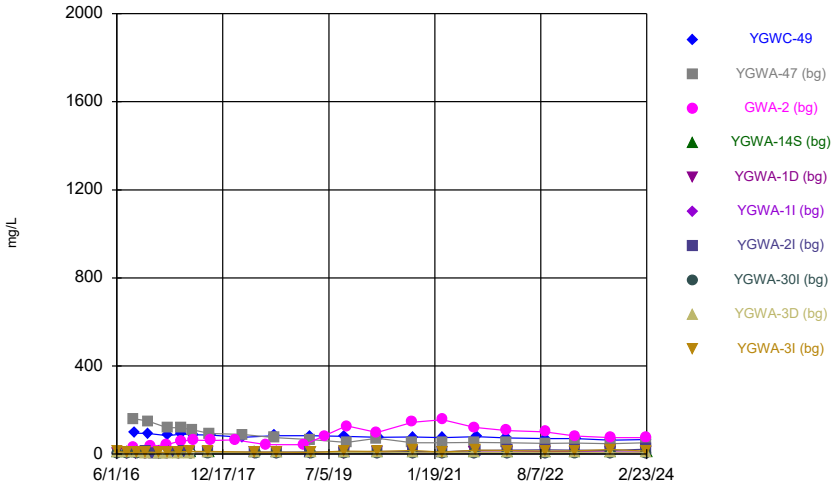
Time Series



Constituent: Sulfate Analysis Run 4/25/2024 2:25 PM
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

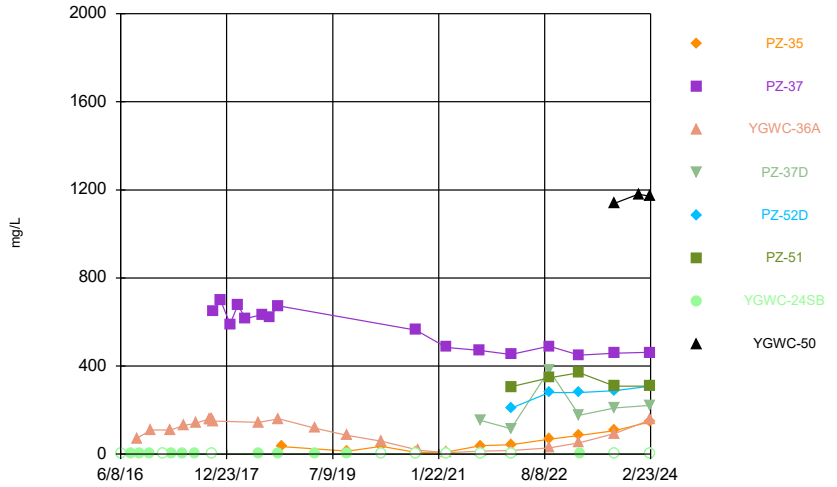
Time Series



Constituent: Sulfate Analysis Run 4/25/2024 2:26 PM
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

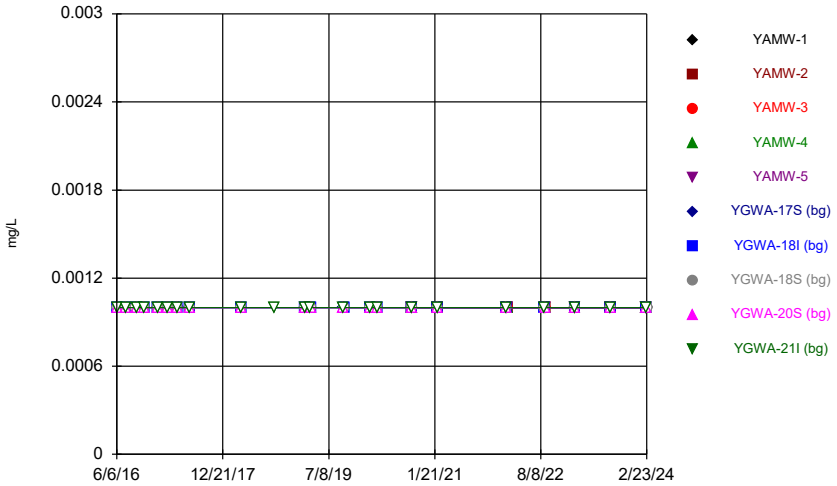
Time Series



Constituent: Sulfate Analysis Run 4/25/2024 2:26 PM
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

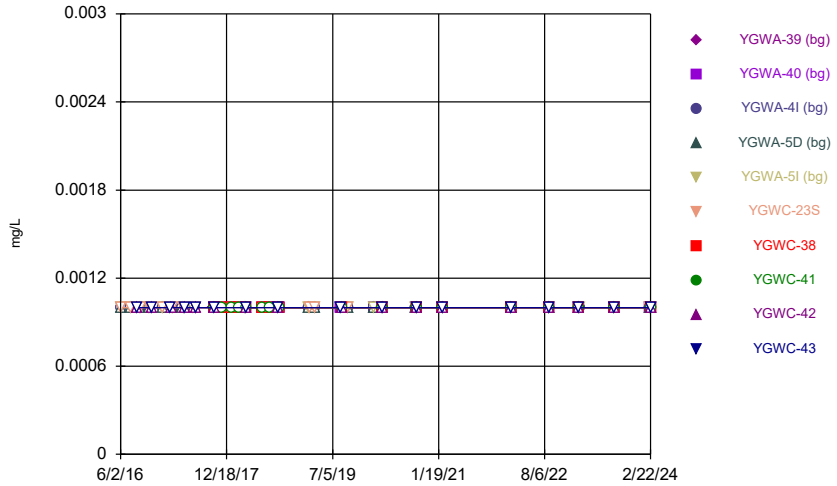
Time Series



Constituent: Thallium Analysis Run 4/25/2024 2:26 PM
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

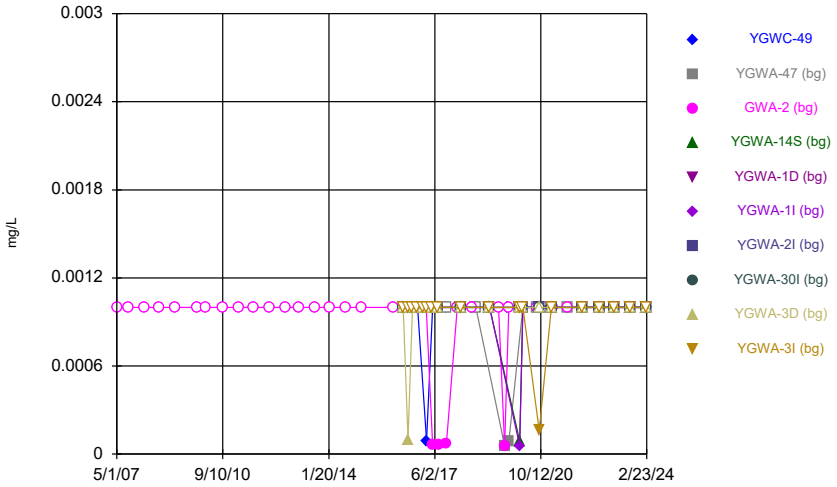
Time Series



Constituent: Thallium Analysis Run 4/25/2024 2:26 PM
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

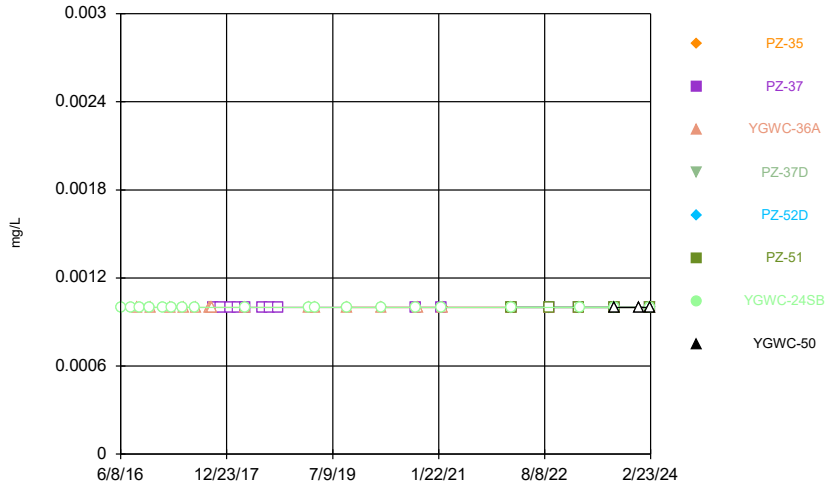
Time Series



Constituent: Thallium Analysis Run 4/25/2024 2:26 PM
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

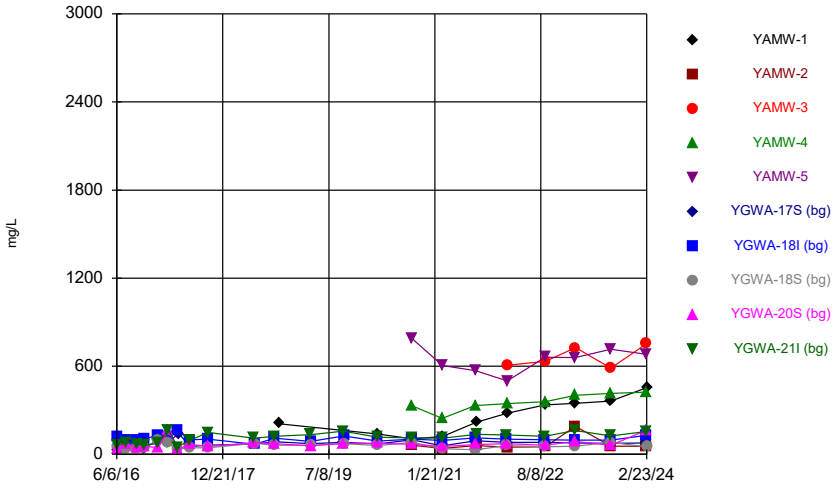
Time Series



Constituent: Thallium Analysis Run 4/25/2024 2:26 PM
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG

Time Series

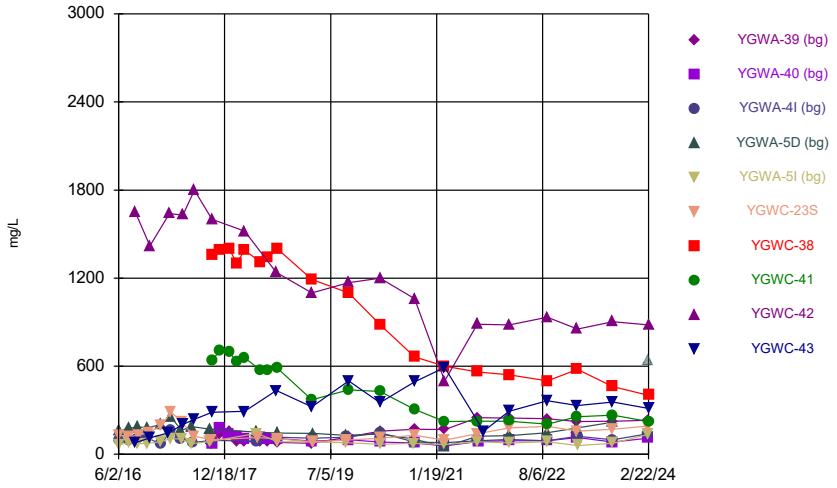


Constituent: Total Dissolved Solids Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG

Time Series

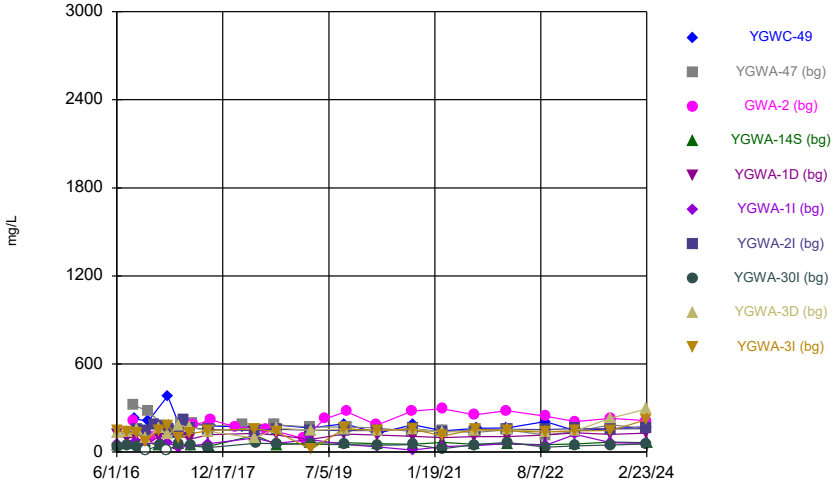


Constituent: Total Dissolved Solids Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

Time Series

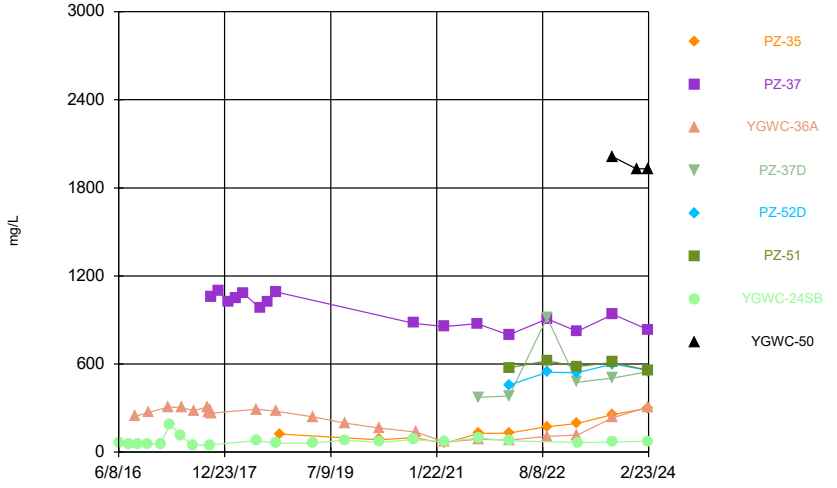


Constituent: Total Dissolved Solids Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG

Time Series



Constituent: Total Dissolved Solids Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							<0.003	<0.003	
6/7/2016						<0.003			<0.003
7/27/2016						<0.003	0.0005 (J)	<0.003	<0.003
7/28/2016									
9/16/2016						<0.003		<0.003	
9/19/2016							<0.003		<0.003
11/2/2016									<0.003
11/3/2016						<0.003	<0.003	<0.003	
1/11/2017						<0.003	<0.003	<0.003	
1/13/2017									<0.003
3/1/2017							<0.003	<0.003	
3/2/2017						<0.003			
3/6/2017									<0.003
4/26/2017							<0.003	<0.003	<0.003
5/2/2017						<0.003			
6/28/2017							<0.003	<0.003	
6/29/2017						<0.003			<0.003
3/28/2018						<0.003	<0.003	<0.003	
3/29/2018									<0.003
3/5/2019						<0.003		<0.003	<0.003
3/6/2019							<0.003		
4/2/2019						<0.003			
4/3/2019							<0.003	<0.003	<0.003
9/24/2019									
9/25/2019						<0.003			<0.003
9/26/2019	<0.003						0.00056 (J)	<0.003	
2/11/2020						<0.003	<0.003	<0.003	
2/12/2020									<0.003
3/24/2020						<0.003	<0.003	<0.003	<0.003
3/25/2020	<0.003								
9/23/2020		<0.003		0.00065 (J)		<0.003	<0.003	<0.003	
9/24/2020	<0.003				0.00033 (J)				<0.003
2/9/2021	0.00037 (J)	<0.003		0.0011 (J)	<0.003		<0.003	<0.003	0.00032 (J)
3/3/2021	0.025	<0.003		0.00062 (J)		<0.003	<0.003	0.00067 (J)	<0.003
3/4/2021					<0.003				
8/25/2021				<0.003					
8/26/2021					<0.003			<0.003	
8/27/2021						<0.003	<0.003		<0.003
9/1/2021	0.0024 (J)	<0.003							
2/9/2022						<0.003	<0.003	<0.003	<0.003
2/10/2022	<0.003	<0.003	<0.003	<0.003	<0.003				
8/30/2022						<0.003	<0.003	<0.003	
8/31/2022	0.0016 (J)								<0.003
9/1/2022		<0.003	<0.003	<0.003	<0.003				
2/7/2023						0.0013 (J)	<0.003	<0.003	<0.003
2/8/2023		<0.003		<0.003	<0.003				
2/9/2023	<0.003		<0.003						
8/15/2023						<0.003	<0.003	<0.003	<0.003
8/16/2023	<0.003		<0.003	<0.003	<0.003				
8/17/2023		<0.003							
2/20/2024						<0.003	<0.003		<0.003
2/21/2024			<0.003						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
2/22/2024		<0.003		<0.003	<0.003				
2/23/2024	0.0023 (J)							<0.003	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	<0.003
7/27/2016	
7/28/2016	<0.003
9/16/2016	
9/19/2016	0.001 (J)
11/2/2016	
11/3/2016	<0.003
1/11/2017	
1/13/2017	<0.003
3/1/2017	
3/2/2017	
3/6/2017	0.0005 (J)
4/26/2017	<0.003
5/2/2017	
6/28/2017	
6/29/2017	<0.003
3/28/2018	
3/29/2018	<0.003
3/5/2019	0.0011 (J)
3/6/2019	
4/2/2019	0.0011 (J)
4/3/2019	
9/24/2019	0.0035
9/25/2019	
9/26/2019	
2/11/2020	
2/12/2020	0.0015 (J)
3/24/2020	0.0017 (J)
3/25/2020	
9/23/2020	
9/24/2020	0.0047
2/9/2021	0.0013 (J)
3/3/2021	
3/4/2021	0.0014 (J)
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	<0.003
2/9/2022	<0.003
2/10/2022	
8/30/2022	0.0046
8/31/2022	
9/1/2022	
2/7/2023	<0.003
2/8/2023	
2/9/2023	
8/15/2023	<0.003
8/16/2023	
8/17/2023	
2/20/2024	0.0013 (J)
2/21/2024	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-21I (bg)
2/22/2024	
2/23/2024	

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.003	<0.003	<0.003				
6/7/2016						<0.003			
7/26/2016			0.0003 (J)	<0.003	<0.003				
7/28/2016						<0.003			
8/30/2016									<0.003
8/31/2016									
9/14/2016			<0.003	<0.003	<0.003				
9/20/2016						<0.003			
11/2/2016			<0.003	<0.003					
11/4/2016					<0.003				
11/8/2016						<0.003			
11/16/2016									<0.003
1/12/2017				<0.003	<0.003				
1/13/2017			<0.003						
1/16/2017						<0.003			
2/24/2017									
2/27/2017									<0.003
3/6/2017			<0.003						
3/7/2017				<0.003	<0.003				
3/9/2017						<0.003			
5/1/2017			<0.003	<0.003					
5/2/2017					<0.003	<0.003			
5/10/2017									<0.003
6/27/2017				<0.003	<0.003				
6/29/2017			<0.003						
7/10/2017						<0.003			
7/11/2017									<0.003
10/11/2017	0.0006 (J)								
10/12/2017		<0.003					<0.003	<0.003	<0.003
11/20/2017	<0.003	<0.003					<0.003		
11/21/2017								<0.003	
1/10/2018		<0.003							
1/11/2018	<0.003							<0.003	
1/12/2018							<0.003		
2/19/2018		<0.003						<0.003	
2/20/2018	<0.003						<0.003		
3/29/2018			<0.003	<0.003	<0.003				
3/30/2018						<0.003			
4/3/2018	<0.003	<0.003					<0.003	<0.003	
4/4/2018									<0.003
6/27/2018								<0.003	
6/28/2018	<0.003	<0.003					<0.003		
8/7/2018	<0.003	<0.003					0.0015 (J)	<0.003	
9/20/2018									<0.003
9/24/2018	<0.003	<0.003					<0.003	<0.003	
3/4/2019			<0.003	<0.003	<0.003				
3/6/2019						<0.003			
4/3/2019			<0.003	<0.003	<0.003				
4/4/2019						<0.003			
8/21/2019	<0.003	<0.003							
8/22/2019							<0.003	<0.003	<0.003
9/24/2019				<0.003	<0.003				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
9/25/2019			<0.003						
9/27/2019						0.00029 (J)			
2/12/2020	<0.003	<0.003	<0.003	<0.003	<0.003				
3/24/2020		<0.003		<0.003	<0.003				
3/25/2020	0.0014 (J)		<0.003				0.00063 (J)	<0.003	<0.003
3/26/2020						<0.003			
9/22/2020			<0.003	<0.003	<0.003				
9/24/2020	<0.003	<0.003				0.00085 (J)			<0.003
9/25/2020							0.00061 (J)	<0.003	
2/8/2021				<0.003	<0.003				
2/9/2021			<0.003			0.00052 (J)	0.00031 (J)		
2/10/2021	<0.003	<0.003						0.0014 (J)	0.00053 (J)
3/2/2021				<0.003	<0.003				
3/3/2021			<0.003						
3/4/2021	<0.003	<0.003				<0.003	<0.003	<0.003	<0.003
8/25/2021						<0.003			<0.003
8/26/2021	<0.003		<0.003	<0.003	<0.003		<0.003	<0.003	
9/3/2021		<0.003							
9/27/2021									
2/8/2022	<0.003	<0.003						<0.003	
2/10/2022				<0.003	<0.003	<0.003	<0.003		<0.003
2/11/2022			<0.003						
8/30/2022				<0.003	<0.003				
8/31/2022	<0.003	<0.003	<0.003						
9/1/2022						<0.003	<0.003	<0.003	<0.003
2/7/2023	<0.003			<0.003					
2/8/2023		<0.003				<0.003	<0.003	<0.003	<0.003
2/9/2023			<0.003		<0.003				
8/15/2023	<0.003	<0.003	<0.003	<0.003	<0.003				
8/16/2023						<0.003	<0.003	<0.003	<0.003
2/20/2024	<0.003	<0.003	0.00061 (J)	<0.003	<0.003				
2/21/2024						<0.003			
2/22/2024							<0.003	<0.003	<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	<0.003
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	<0.003
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	<0.003
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	<0.003
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	<0.003
10/11/2017	
10/12/2017	<0.003
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	<0.003
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	<0.003
9/24/2018	
3/4/2019	
3/6/2019	
4/3/2019	
4/4/2019	
8/21/2019	<0.003
8/22/2019	
9/24/2019	

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-43
9/25/2019	
9/27/2019	
2/12/2020	
3/24/2020	
3/25/2020	0.00031 (J)
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	<0.003
2/8/2021	
2/9/2021	<0.003
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	<0.003
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	<0.003
2/8/2022	<0.003
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	<0.003
2/7/2023	
2/8/2023	<0.003
2/9/2023	
8/15/2023	
8/16/2023	0.0026 (J)
2/20/2024	
2/21/2024	
2/22/2024	<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/1/2007			<0.003						
9/11/2007			<0.003						
3/20/2008			<0.003						
8/27/2008			<0.003						
3/3/2009			<0.003						
11/18/2009			<0.003						
3/3/2010			<0.003						
9/8/2010			<0.003						
3/10/2011			<0.003						
9/8/2011			<0.003						
3/5/2012			<0.003						
9/10/2012			<0.003						
2/6/2013			<0.003						
8/12/2013			<0.003						
2/5/2014			<0.003						
8/5/2014			<0.003						
2/4/2015			<0.003						
8/3/2015			<0.003						
2/16/2016			<0.003						
6/1/2016					<0.003	<0.003			
6/2/2016				<0.003				<0.003	<0.003
7/25/2016						<0.003		<0.003	
7/26/2016				0.0005 (J)	0.001 (J)				0.002 (J)
8/30/2016		0.0028 (J)							
8/31/2016			<0.003						
9/1/2016	<0.003								
9/13/2016					0.001 (J)	<0.003			
9/14/2016							<0.003		
9/15/2016				<0.003					0.0027 (J)
9/19/2016								<0.003	
11/1/2016					0.0015 (J)			<0.003	<0.003
11/2/2016				<0.003					
11/4/2016						<0.003	<0.003		
11/14/2016		<0.003							
11/15/2016	<0.003								
11/28/2016			0.0014 (J)						
12/15/2016							0.0012 (J)		
1/10/2017				<0.003					
1/11/2017					<0.003				<0.003
1/16/2017						<0.003	<0.003	<0.003	
2/21/2017								<0.003	
2/22/2017			<0.003						
2/24/2017		<0.003							
2/27/2017	0.0011 (J)								
3/1/2017									
3/2/2017					0.0004 (J)	<0.003			0.0008 (J)
3/3/2017							<0.003		
3/8/2017				<0.003					
4/26/2017				<0.003				<0.003	<0.003
4/27/2017					0.0004 (J)	0.0017 (J)			
4/28/2017							0.0015 (J)		
5/8/2017		0.0004 (J)	<0.003						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/9/2017	<0.003								
5/26/2017							0.0005 (J)		
6/27/2017					<0.003	<0.003			
6/28/2017							<0.003		<0.003
6/30/2017				<0.003				<0.003	
7/11/2017		0.0006 (J)							
7/13/2017	<0.003								
7/17/2017			<0.003						
10/10/2017		<0.003							
10/11/2017	<0.003								
10/16/2017			<0.003						
2/19/2018			<0.003						
3/27/2018				<0.003		<0.003		<0.003	
3/28/2018							<0.003		<0.003
3/29/2018					<0.003				
4/2/2018		<0.003							
4/4/2018	<0.003								
8/6/2018			<0.003						
9/19/2018		<0.003							
9/20/2018	<0.003								
2/25/2019			<0.003						
2/26/2019				<0.003				<0.003	
2/27/2019					<0.003	<0.003	<0.003		<0.003
6/12/2019			<0.003						
8/19/2019			<0.003						
8/20/2019		<0.003							
9/26/2019	<0.003								
10/8/2019			<0.003						
2/10/2020					0.00088 (J)	<0.003			
2/11/2020							0.00036 (J)		
2/12/2020				<0.003				<0.003	<0.003
3/17/2020			<0.003						
3/18/2020				<0.003		0.0004 (J)			
3/19/2020					<0.003		0.0003 (J)	<0.003	0.00064 (J)
3/25/2020	0.00053 (J)								
8/26/2020			0.00042 (J)						
8/27/2020		0.00048 (J)							
9/22/2020		<0.003	0.00044 (J)						
9/23/2020					<0.003	<0.003	<0.003		<0.003
9/24/2020	<0.003							<0.003	
9/25/2020				<0.003					
2/9/2021	<0.003								
2/10/2021				<0.003			0.0013 (J)		<0.003
2/11/2021								<0.003	
2/12/2021					<0.003	<0.003			
3/1/2021		0.00048 (J)						<0.003	
3/2/2021			<0.003	<0.003					
3/3/2021					<0.003	<0.003	<0.003		<0.003
3/4/2021	<0.003								
8/19/2021		<0.003		<0.003	<0.003	<0.003		<0.003	<0.003
8/20/2021			<0.003						
8/27/2021							<0.003		

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
9/1/2021	<0.003								
2/8/2022	<0.003	<0.003	<0.003						
2/9/2022					<0.003	<0.003	<0.003		0.0018 (J)
2/10/2022				<0.003					
2/11/2022								<0.003	
8/30/2022			<0.003		<0.003		<0.003		
8/31/2022	<0.003	<0.003		<0.003		<0.003		<0.003	<0.003
2/7/2023			<0.003		<0.003	<0.003	<0.003		
2/8/2023		<0.003		<0.003				<0.003	<0.003
2/9/2023	<0.003								
8/15/2023		<0.003	<0.003	<0.003	<0.003	<0.003	<0.003		<0.003
8/16/2023	<0.003							<0.003	
2/20/2024		<0.003	0.0026 (J)		0.0023 (J)	<0.003	0.00067 (J)	<0.003	<0.003
2/21/2024	<0.003								
2/23/2024				<0.003					

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/1/2007	
9/11/2007	
3/20/2008	
8/27/2008	
3/3/2009	
11/18/2009	
3/3/2010	
9/8/2010	
3/10/2011	
9/8/2011	
3/5/2012	
9/10/2012	
2/6/2013	
8/12/2013	
2/5/2014	
8/5/2014	
2/4/2015	
8/3/2015	
2/16/2016	
6/1/2016	<0.003
6/2/2016	
7/25/2016	<0.003
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	<0.003
9/15/2016	
9/19/2016	
11/1/2016	<0.003
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	<0.003
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	<0.003
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	<0.003
4/27/2017	
4/28/2017	
5/8/2017	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	<0.003
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	<0.003
3/29/2018	
4/2/2018	
4/4/2018	
8/6/2018	
9/19/2018	
9/20/2018	
2/25/2019	
2/26/2019	
2/27/2019	<0.003
6/12/2019	
8/19/2019	
8/20/2019	
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	<0.003
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	<0.003
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	<0.003
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	<0.003
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	<0.003
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-3I (bg)
9/1/2021	
2/8/2022	
2/9/2022	<0.003
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	<0.003
2/7/2023	
2/8/2023	<0.003
2/9/2023	
8/15/2023	
8/16/2023	<0.003
2/20/2024	<0.003
2/21/2024	
2/23/2024	

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50
6/8/2016							<0.003	
8/1/2016							<0.003	
9/2/2016			<0.003					
9/20/2016							0.0009 (J)	
11/8/2016							<0.003	
11/14/2016			0.0014 (J)					
1/17/2017							<0.003	
2/28/2017			0.0004 (J)					
3/8/2017							<0.003	
5/2/2017							<0.003	
5/9/2017			<0.003					
7/7/2017							<0.003	
7/13/2017			<0.003					
9/22/2017			<0.003					
9/29/2017			<0.003					
10/6/2017			<0.003					
10/12/2017		<0.003						
11/21/2017		<0.003						
1/11/2018		<0.003						
2/20/2018		<0.003						
3/30/2018			<0.003				<0.003	
4/3/2018		<0.003						
6/29/2018		<0.003						
8/6/2018		<0.003						
9/24/2018		<0.003						
3/5/2019							<0.003	
3/6/2019			0.0011 (J)					
4/4/2019			0.0041				<0.003	
9/26/2019	<0.003		0.0065				<0.003	
3/25/2020	<0.003		0.0011 (J)					
3/26/2020							<0.003	
9/23/2020							<0.003	
9/24/2020	<0.003							
9/25/2020		0.0014 (J)						
10/7/2020			<0.003					
2/9/2021		0.00035 (J)					<0.003	
2/10/2021	<0.003		0.028					
3/3/2021							<0.003	
3/4/2021	0.00039 (J)	<0.003	0.0015 (J)					
8/25/2021		<0.003						
9/1/2021	<0.003						<0.003	
9/3/2021			0.0016 (J)	<0.003				
2/10/2022	<0.003	<0.003				<0.003	<0.003	
2/11/2022			0.0023 (J)	<0.003	<0.003			
8/31/2022	<0.003							
9/1/2022		0.00091 (J)	<0.003	<0.003	<0.003	<0.003		
2/8/2023		<0.003		0.0015 (J)	<0.003			
2/9/2023	<0.003		<0.003			<0.003		
2/10/2023							<0.003	
8/16/2023	<0.003		<0.003	<0.003		<0.003	<0.003	
8/17/2023		<0.003			<0.003			<0.003
12/20/2023								<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50
2/21/2024		<0.003		<0.003	<0.003			
2/22/2024						<0.003		0.00076 (J)
2/23/2024	<0.003		<0.003				<0.003	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							<0.005	<0.005	
6/7/2016						<0.005			<0.005
7/27/2016						<0.005	<0.005	<0.005	<0.005
7/28/2016									
9/16/2016						<0.005		<0.005	
9/19/2016							<0.005		<0.005
11/2/2016									<0.005
11/3/2016						<0.005	<0.005	<0.005	
1/11/2017						<0.005	<0.005	<0.005	
1/13/2017									<0.005
3/1/2017							<0.005	<0.005	
3/2/2017						<0.005			
3/6/2017									<0.005
4/26/2017							<0.005	<0.005	<0.005
5/2/2017						<0.005			
6/28/2017							<0.005	<0.005	
6/29/2017						<0.005			<0.005
3/28/2018						<0.005	<0.005	0.00061 (J)	
3/29/2018									<0.005
6/5/2018									
6/6/2018									<0.005
6/7/2018							0.00066 (J)		
6/11/2018						<0.005		<0.005	
9/25/2018						<0.005	<0.005	<0.005	<0.005
10/16/2018	<0.005								
3/5/2019						<0.005		<0.005	<0.005
3/6/2019							<0.005		
4/2/2019						<0.005			
4/3/2019							<0.005	<0.005	<0.005
9/24/2019									
9/25/2019						<0.005			<0.005
9/26/2019	<0.005						<0.005	<0.005	
2/11/2020						0.0022 (J)	0.0014 (J)	0.0026 (J)	
2/12/2020									<0.005
3/24/2020						<0.005	<0.005	<0.005	<0.005
3/25/2020	<0.005								
9/23/2020		<0.005		<0.005		<0.005	<0.005	<0.005	
9/24/2020	<0.005				0.0015 (J)				<0.005
2/9/2021	<0.005	<0.005		0.001 (J)	0.00095 (J)		<0.005	<0.005	<0.005
3/3/2021	<0.005	<0.005		0.00079 (J)		<0.005	<0.005	<0.005	<0.005
3/4/2021					<0.005				
8/25/2021				<0.005					
8/26/2021					<0.005			<0.005	
8/27/2021						<0.005	<0.005		<0.005
9/1/2021	<0.005	<0.005							
2/9/2022						0.0024 (J)	0.0022 (J)	0.0024 (J)	0.0021 (J)
2/10/2022	0.0023 (J)	<0.005	0.0038 (J)	0.0026 (J)	0.0024 (J)				
8/30/2022						<0.005	<0.005	<0.005	
8/31/2022	<0.005								<0.005
9/1/2022		<0.005	<0.005	<0.005	<0.005				
2/7/2023						<0.005	<0.005	<0.005	<0.005
2/8/2023		<0.005		0.0037 (J)	0.0038 (J)				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
2/9/2023	0.0034 (J)		<0.005						
8/15/2023						<0.005	<0.005	<0.005	<0.005
8/16/2023	<0.005		<0.005	<0.005	<0.005				
8/17/2023		<0.005							
2/20/2024						<0.005	<0.005		<0.005
2/21/2024			0.0015 (J)						
2/22/2024		<0.005		0.001 (J)	0.0011 (J)				
2/23/2024	<0.005							<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	<0.005
7/27/2016	
7/28/2016	<0.005
9/16/2016	
9/19/2016	<0.005
11/2/2016	
11/3/2016	<0.005
1/11/2017	
1/13/2017	<0.005
3/1/2017	
3/2/2017	
3/6/2017	0.0017 (J)
4/26/2017	<0.005
5/2/2017	
6/28/2017	
6/29/2017	<0.005
3/28/2018	
3/29/2018	0.0015 (J)
6/5/2018	0.0013 (J)
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	0.0022 (J)
10/16/2018	
3/5/2019	0.0013 (J)
3/6/2019	
4/2/2019	0.00096 (J)
4/3/2019	
9/24/2019	0.0026 (J)
9/25/2019	
9/26/2019	
2/11/2020	
2/12/2020	0.0025 (J)
3/24/2020	0.0013 (J)
3/25/2020	
9/23/2020	
9/24/2020	0.0014 (J)
2/9/2021	0.001 (J)
3/3/2021	
3/4/2021	0.00078 (J)
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	<0.005
2/9/2022	0.0036 (J)
2/10/2022	
8/30/2022	0.0022 (J)
8/31/2022	
9/1/2022	
2/7/2023	0.0028 (J)
2/8/2023	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-21I (bg)
2/9/2023	
8/15/2023	<0.005
8/16/2023	
8/17/2023	
2/20/2024	<0.005
2/21/2024	
2/22/2024	
2/23/2024	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.005	0.00071 (J)	<0.005				
6/7/2016						<0.005			
7/26/2016			<0.005	0.001 (J)	<0.005				
7/28/2016						<0.005			
8/30/2016									0.0023 (J)
8/31/2016									
9/14/2016			<0.005	<0.005	<0.005				
9/20/2016						<0.005			
11/2/2016			<0.005	<0.005					
11/4/2016					<0.005				
11/8/2016						<0.005			
11/16/2016									0.0017 (J)
1/12/2017				<0.005	<0.005				
1/13/2017			<0.005						
1/16/2017						<0.005			
2/24/2017									
2/27/2017									0.002 (J)
3/6/2017			<0.005						
3/7/2017				0.0012 (J)	<0.005				
3/9/2017						<0.005			
5/1/2017			<0.005	<0.005					
5/2/2017					<0.005	<0.005			
5/10/2017									0.0022 (J)
6/27/2017				0.0019 (J)	<0.005				
6/29/2017			<0.005						
7/10/2017						<0.005			
7/11/2017									0.003 (J)
10/11/2017	0.0009 (J)								
10/12/2017		<0.005					0.0023 (J)	0.0011 (J)	0.0031 (J)
11/20/2017	<0.005	<0.005					0.0008 (J)		
11/21/2017								<0.005	
1/10/2018		<0.005							
1/11/2018	<0.005							<0.005	
1/12/2018							0.001 (J)		
2/19/2018		<0.005						<0.005	
2/20/2018	<0.005						0.00096 (J)		
3/29/2018			<0.005	0.0006 (J)	<0.005				
3/30/2018						<0.005			
4/3/2018	<0.005	<0.005					0.0015 (J)	0.00072 (J)	
4/4/2018									0.0023 (J)
6/6/2018				0.0013 (J)					
6/7/2018			0.00059 (J)		<0.005				
6/12/2018						<0.005			
6/27/2018								0.00062 (J)	
6/28/2018	<0.005	<0.005					0.0017 (J)		
8/7/2018	<0.005	<0.005					0.00072 (J)	<0.005	
9/20/2018									0.0018 (J)
9/24/2018	<0.005	<0.005					0.0017 (J)	0.001 (J)	
9/26/2018			<0.005	0.0014 (J)	<0.005				
9/27/2018						<0.005			
3/4/2019			<0.005	<0.005	<0.005				
3/6/2019						<0.005			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
4/3/2019			<0.005	<0.005	<0.005				
4/4/2019						<0.005			
8/21/2019	0.00058 (J)	<0.005							
8/22/2019							0.00055 (J)	0.00036 (J)	0.00089 (J)
9/24/2019				0.00043 (J)	<0.005				
9/25/2019			<0.005						
9/27/2019						<0.005			
10/9/2019	0.00063 (J)	<0.005					0.00057 (J)	0.00052 (J)	0.00078 (J)
2/12/2020	0.00058 (J)	0.0034 (J)	<0.005	0.0046 (J)	0.002 (J)				
3/24/2020		<0.005		0.00065 (J)	<0.005				
3/25/2020	0.0012 (J)		<0.005				0.00068 (J)	0.001 (J)	0.0013 (J)
3/26/2020						0.0012 (J)			
9/22/2020			<0.005	0.001 (J)	<0.005				
9/24/2020	<0.005	<0.005				<0.005			<0.005
9/25/2020							<0.005	<0.005	
2/8/2021				<0.005	<0.005				
2/9/2021			<0.005			<0.005	0.00098 (J)		
2/10/2021	<0.005	<0.005						<0.005	0.0016 (J)
3/2/2021				<0.005	<0.005				
3/3/2021			<0.005						
3/4/2021	<0.005	<0.005				<0.005	<0.005	<0.005	<0.005
8/25/2021						<0.005			0.0014 (J)
8/26/2021	<0.005		<0.005	0.0016 (J)	<0.005		0.0013 (J)	<0.005	
9/3/2021		<0.005							
9/27/2021									
2/8/2022	0.0034 (J)	0.003 (J)						0.0021 (J)	
2/10/2022				0.004 (J)	0.0016 (J)	0.0025 (J)	0.0017 (J)		0.0026 (J)
2/11/2022			0.0014 (J)						
8/30/2022				0.0031 (J)	<0.005				
8/31/2022	0.0029 (J)	<0.005	<0.005						
9/1/2022						<0.005	<0.005	<0.005	<0.005
2/7/2023	0.0029 (J)			0.003 (J)					
2/8/2023		<0.005				<0.005	<0.005	0.0027 (J)	0.0025 (J)
2/9/2023			<0.005		<0.005				
8/15/2023	<0.005	<0.005	<0.005	<0.005	<0.005				
8/16/2023						<0.005	<0.005	<0.005	<0.005
2/20/2024	0.002 (J)	0.0012 (J)	<0.005	0.003 (J)	<0.005				
2/21/2024						<0.005			
2/22/2024							<0.005	<0.005	0.0014 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	<0.005
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	<0.005
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	<0.005
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	<0.005
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	<0.005
10/11/2017	
10/12/2017	<0.005
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	<0.005
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	0.00099 (J)
9/24/2018	
9/26/2018	
9/27/2018	
3/4/2019	
3/6/2019	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-43
4/3/2019	
4/4/2019	
8/21/2019	<0.005
8/22/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	0.00051 (J)
2/12/2020	
3/24/2020	
3/25/2020	0.0007 (J)
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	<0.005
2/8/2021	
2/9/2021	<0.005
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	<0.005
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	<0.005
2/8/2022	0.0022 (J)
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	<0.005
2/7/2023	
2/8/2023	0.0033 (J)
2/9/2023	
8/15/2023	
8/16/2023	<0.005
2/20/2024	
2/21/2024	
2/22/2024	<0.005

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/1/2007			<0.005						
9/11/2007			<0.005						
3/20/2008			<0.005						
8/27/2008			<0.005						
3/3/2009			<0.005						
11/18/2009			<0.005						
3/3/2010			<0.005						
9/8/2010			<0.005						
3/10/2011			<0.005						
9/8/2011			<0.005						
3/5/2012			<0.005						
9/10/2012			<0.005						
2/6/2013			<0.005						
8/12/2013			<0.005						
2/5/2014			<0.005						
8/5/2014			<0.005						
2/4/2015			<0.005						
8/3/2015			<0.005						
2/16/2016			<0.005						
6/1/2016					0.0021	<0.005			
6/2/2016				<0.005				<0.005	<0.005
7/25/2016						<0.005		<0.005	
7/26/2016				<0.005	0.0016 (J)				<0.005
8/30/2016		<0.005							
8/31/2016			<0.005						
9/1/2016	<0.005								
9/13/2016					<0.005	<0.005			
9/14/2016							<0.005		
9/15/2016				<0.005					<0.005
9/19/2016								<0.005	
11/1/2016					<0.005			<0.005	<0.005
11/2/2016				<0.005					
11/4/2016						<0.005	0.0017 (J)		
11/14/2016		<0.005							
11/15/2016	<0.005								
11/28/2016			<0.005						
12/15/2016							0.0023 (J)		
1/10/2017				<0.005					
1/11/2017					0.0017 (J)				<0.005
1/16/2017						<0.005	0.0018 (J)	<0.005	
2/21/2017								<0.005	
2/22/2017			<0.005						
2/24/2017		<0.005							
2/27/2017	<0.005								
3/1/2017									
3/2/2017					0.0014 (J)	<0.005			<0.005
3/3/2017							0.0016 (J)		
3/8/2017				<0.005					
4/26/2017				<0.005				<0.005	<0.005
4/27/2017					0.0018 (J)	<0.005			
4/28/2017							0.002 (J)		
5/8/2017		<0.005	<0.005						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/9/2017	<0.005								
5/26/2017							0.0005 (J)		
6/27/2017					0.0018 (J)	<0.005			
6/28/2017							0.0016 (J)		0.0007 (J)
6/30/2017				<0.005				<0.005	
7/11/2017		<0.005							
7/13/2017	<0.005								
7/17/2017			<0.005						
10/10/2017		0.0007 (J)							
10/11/2017	0.0006 (J)								
10/16/2017			<0.005						
2/19/2018			<0.005						
3/27/2018				<0.005		<0.005		<0.005	
3/28/2018							0.0013 (J)		<0.005
3/29/2018					0.0017 (J)				
4/2/2018		<0.005							
4/4/2018	<0.005								
6/5/2018					0.0013 (J)				
6/6/2018						<0.005			
6/7/2018							0.00082 (J)		<0.005
6/8/2018				<0.005					
6/11/2018								<0.005	
8/6/2018			<0.005						
9/19/2018		0.00072 (J)							
9/20/2018	0.001 (J)								
10/1/2018				<0.005	0.0016 (J)	<0.005	0.0011 (J)		<0.005
10/2/2018								<0.005	
2/25/2019			<0.005						
2/26/2019				<0.005				<0.005	
2/27/2019					0.0015 (J)	<0.005	0.001 (J)		<0.005
3/28/2019					0.00072 (J)	<0.005			
3/29/2019				<0.005			0.00063 (J)		
4/1/2019								<0.005	<0.005
6/12/2019			0.00038 (J)						
8/19/2019			0.00095 (J)						
8/20/2019		<0.005							
9/24/2019					0.0014 (J)	<0.005	<0.005		
9/25/2019				<0.005				<0.005	<0.005
9/26/2019	<0.005								
10/8/2019		<0.005	<0.005						
2/10/2020					0.0026 (J)	0.0005 (J)			
2/11/2020							0.0044 (J)		
2/12/2020				<0.005				0.0032 (J)	0.0038 (J)
3/17/2020		<0.005	<0.005						
3/18/2020				<0.005		<0.005			
3/19/2020					0.00095 (J)		0.00066 (J)	<0.005	<0.005
3/25/2020	0.00086 (J)								
8/26/2020			<0.005						
8/27/2020		<0.005							
9/22/2020		<0.005	<0.005						
9/23/2020					0.0011 (J)	<0.005	0.001 (J)		<0.005
9/24/2020	<0.005							<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
9/25/2020				<0.005					
2/9/2021	<0.005								
2/10/2021				<0.005			<0.005		0.00094 (J)
2/11/2021								<0.005	
2/12/2021					<0.005	<0.005			
3/1/2021		<0.005						<0.005	
3/2/2021			<0.005	<0.005					
3/3/2021					<0.005	<0.005	0.00098 (J)		<0.005
3/4/2021	<0.005								
8/19/2021		<0.005		<0.005	<0.005	<0.005		<0.005	<0.005
8/20/2021			<0.005						
8/27/2021							<0.005		
9/1/2021	<0.005								
2/8/2022	<0.005	0.0027 (J)	0.0033 (J)						
2/9/2022					0.0031 (J)	0.0033 (J)	0.0037 (J)		0.002 (J)
2/10/2022				0.0016 (J)					
2/11/2022								0.0014 (J)	
8/30/2022			0.0024 (J)		<0.005		0.0027 (J)		
8/31/2022	<0.005	<0.005		<0.005		<0.005		<0.005	0.0028 (J)
2/7/2023			<0.005		<0.005	<0.005	<0.005		
2/8/2023		<0.005		<0.005				<0.005	0.003 (J)
2/9/2023	<0.005								
8/15/2023		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005
8/16/2023	<0.005							<0.005	
2/20/2024		<0.005	0.0015 (J)		<0.005	<0.005	0.0019 (J)	<0.005	0.0027 (J)
2/21/2024	<0.005								
2/23/2024				<0.005					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/1/2007	
9/11/2007	
3/20/2008	
8/27/2008	
3/3/2009	
11/18/2009	
3/3/2010	
9/8/2010	
3/10/2011	
9/8/2011	
3/5/2012	
9/10/2012	
2/6/2013	
8/12/2013	
2/5/2014	
8/5/2014	
2/4/2015	
8/3/2015	
2/16/2016	
6/1/2016	<0.005
6/2/2016	
7/25/2016	<0.005
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	<0.005
9/15/2016	
9/19/2016	
11/1/2016	<0.005
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	<0.005
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	0.0004 (J)
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	<0.005
4/27/2017	
4/28/2017	
5/8/2017	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	0.0011 (J)
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	<0.005
3/29/2018	
4/2/2018	
4/4/2018	
6/5/2018	
6/6/2018	
6/7/2018	
6/8/2018	<0.005
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	<0.005
10/2/2018	
2/25/2019	
2/26/2019	
2/27/2019	<0.005
3/28/2019	
3/29/2019	
4/1/2019	<0.005
6/12/2019	
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	<0.005
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	0.0041 (J)
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	<0.005
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	<0.005
9/24/2020	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-3I (bg)
9/25/2020	
2/9/2021	
2/10/2021	0.00078 (J)
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	<0.005
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	<0.005
9/1/2021	
2/8/2022	
2/9/2022	0.0018 (J)
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	<0.005
2/7/2023	
2/8/2023	0.0024 (J)
2/9/2023	
8/15/2023	
8/16/2023	<0.005
2/20/2024	0.0013 (J)
2/21/2024	
2/23/2024	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50
6/8/2016							<0.005	
8/1/2016							<0.005	
9/2/2016			<0.005					
9/20/2016							<0.005	
11/8/2016							<0.005	
11/14/2016			<0.005					
1/17/2017							<0.005	
2/28/2017			0.0006 (J)					
3/8/2017							<0.005	
5/2/2017							<0.005	
5/9/2017			0.0006 (J)					
7/7/2017							<0.005	
7/13/2017			<0.005					
9/22/2017			<0.005					
9/29/2017			<0.005					
10/6/2017			<0.005					
10/12/2017		0.0014 (J)						
11/21/2017		0.0008 (J)						
1/11/2018		0.0006 (J)						
2/20/2018		<0.005						
3/30/2018			<0.005				<0.005	
4/3/2018		0.0012 (J)						
6/12/2018							<0.005	
6/13/2018			0.00066 (J)					
6/29/2018		0.0011 (J)						
8/6/2018		<0.005						
9/24/2018		0.00094 (J)						
9/26/2018			<0.005				<0.005	
10/16/2018	0.00069 (J)							
3/5/2019							<0.005	
3/6/2019			<0.005					
4/4/2019			<0.005				<0.005	
9/26/2019	<0.005		<0.005				<0.005	
3/25/2020	<0.005		<0.005					
3/26/2020							0.0015 (J)	
9/23/2020							<0.005	
9/24/2020	<0.005							
9/25/2020		<0.005						
10/7/2020			<0.005					
2/9/2021		0.0015 (J)					<0.005	
2/10/2021	0.00096 (J)		0.00088 (J)					
3/3/2021							<0.005	
3/4/2021	<0.005	<0.005	<0.005					
8/25/2021		0.0014 (J)						
9/1/2021	<0.005						<0.005	
9/3/2021			<0.005	<0.005				
2/10/2022	0.0018 (J)	0.0017 (J)				0.0013 (J)	0.0024 (J)	
2/11/2022			0.0014 (J)	<0.005	0.0014 (J)			
8/31/2022	<0.005							
9/1/2022		<0.005	<0.005	<0.005	<0.005	<0.005		
2/8/2023		<0.005		<0.005	0.0032 (J)			
2/9/2023	0.0028 (J)		0.0047 (J)			<0.005		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50
2/10/2023							0.0035 (J)	
8/16/2023	<0.005		<0.005	<0.005		<0.005	<0.005	
8/17/2023		<0.005			<0.005			<0.005
12/20/2023								0.0019 (J)
2/21/2024		0.0023 (J)		0.0014 (J)	0.0013 (J)			
2/22/2024						<0.005		0.0016 (J)
2/23/2024	<0.005		<0.005				<0.005	

Time Series

Constituent: Barium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							0.028	0.019	
6/7/2016						0.012			0.014
7/27/2016						0.0126	0.0294	0.0167	0.0141
7/28/2016									
9/16/2016						0.0127		0.0168	
9/19/2016							0.0247		0.0155
11/2/2016									0.0157
11/3/2016						0.0128	0.0248	0.0159	
1/11/2017						0.0142	0.0266	0.0162	
1/13/2017									0.0158
3/1/2017							0.0275	0.0195	
3/2/2017						0.0155			
3/6/2017									0.0163
4/26/2017							0.024	0.0182	0.0177
5/2/2017						0.0138			
6/28/2017							0.0237	0.018	
6/29/2017						0.0128			0.017
3/28/2018						0.014	0.024	0.021	
3/29/2018									0.014
6/5/2018									
6/6/2018									0.015
6/7/2018							0.023		
6/11/2018						0.013		0.019	
9/25/2018						0.014	0.023	0.019	0.015
10/16/2018	0.048								
3/5/2019						0.015		0.02	0.016
3/6/2019							0.024		
4/2/2019						0.016			
4/3/2019							0.025	0.017	0.018
9/24/2019									
9/25/2019						0.015			0.014
9/26/2019	0.047						0.021	0.017	
2/11/2020						0.015	0.022	0.019	
2/12/2020									0.014
3/24/2020						0.015	0.021	0.017	0.015
3/25/2020	0.04								
9/23/2020		0.0092 (J)		0.0063 (J)		0.015	0.021	0.016	
9/24/2020	0.028				0.057				0.015
2/9/2021	0.039	0.0085 (J)		0.02	0.042		0.023	0.017	0.015
3/3/2021	0.035	0.0082		0.021		0.017	0.023	0.017	0.015
3/4/2021					0.039				
8/25/2021				0.0037 (J)					
8/26/2021					0.036			0.015	
8/27/2021						0.016	0.02		0.013
9/1/2021	0.075	0.0072							
2/9/2022						0.017	0.021	0.014	0.014
2/10/2022	0.084	0.0074	0.038	0.0033 (J)	0.034				
8/30/2022						0.017	0.017	0.012	
8/31/2022	0.085								0.011
9/1/2022		0.0092	0.024	0.003 (J)	0.034				
2/7/2023						0.017	0.019	0.012	0.014
2/8/2023		0.0064		0.003 (J)	0.039				

Time Series

Constituent: Barium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
2/9/2023	0.078		0.045						
8/15/2023						0.016	0.02	0.012	0.012
8/16/2023	0.092		0.026	0.0031 (J)	0.036				
8/17/2023		0.0092							
2/20/2024						0.017	0.02		0.013
2/21/2024			0.032						
2/22/2024		0.0068		0.003 (J)	0.035				
2/23/2024	0.087							0.013	

Time Series

Constituent: Barium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	0.0058
7/27/2016	
7/28/2016	0.0068 (J)
9/16/2016	
9/19/2016	0.0071 (J)
11/2/2016	
11/3/2016	0.0092 (J)
1/11/2017	
1/13/2017	0.0105
3/1/2017	
3/2/2017	
3/6/2017	0.0105
4/26/2017	0.011
5/2/2017	
6/28/2017	
6/29/2017	0.0109
3/28/2018	
3/29/2018	<0.01
6/5/2018	0.011
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	0.011
10/16/2018	
3/5/2019	0.011
3/6/2019	
4/2/2019	0.011
4/3/2019	
9/24/2019	0.011
9/25/2019	
9/26/2019	
2/11/2020	
2/12/2020	0.011
3/24/2020	0.011
3/25/2020	
9/23/2020	
9/24/2020	0.01
2/9/2021	0.011
3/3/2021	
3/4/2021	0.011
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	0.0099
2/9/2022	0.011
2/10/2022	
8/30/2022	0.0085
8/31/2022	
9/1/2022	
2/7/2023	0.01
2/8/2023	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-21I (bg)
2/9/2023	
8/15/2023	0.0075
8/16/2023	
8/17/2023	
2/20/2024	0.0065
2/21/2024	
2/22/2024	
2/23/2024	

Time Series

Constituent: Barium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			0.013	0.0084	0.019				
6/7/2016						0.045			
7/26/2016			0.0158	0.01	0.0179				
7/28/2016						0.0511			
8/30/2016									0.0455
8/31/2016									
9/14/2016			0.0143	0.0085 (J)	0.0181				
9/20/2016						0.0561			
11/2/2016			0.0148	0.0091 (J)					
11/4/2016					0.0165				
11/8/2016						0.054			
11/16/2016									0.0541
1/12/2017				0.0089 (J)	0.0199				
1/13/2017			0.0146						
1/16/2017						0.0528			
2/24/2017									
2/27/2017									0.0573
3/6/2017			0.0141						
3/7/2017				0.009 (J)	0.0196				
3/9/2017						0.0469			
5/1/2017			0.0149	0.0083 (J)					
5/2/2017					0.0202	0.0427			
5/10/2017									0.0517
6/27/2017				0.0074 (J)	0.0184				
6/29/2017			0.0154						
7/10/2017						0.0395			
7/11/2017									0.0451
10/11/2017	0.0092 (J)								
10/12/2017		0.0328					0.0269	0.0394	0.0429
11/20/2017	0.0081 (J)	0.0671					0.0255		
11/21/2017								0.032	
1/10/2018		0.0656							
1/11/2018	0.0077 (J)							0.03	
1/12/2018							0.0236		
2/19/2018		0.0598						0.0308	
2/20/2018	<0.01						0.0255		
3/29/2018			0.014	<0.01	0.021				
3/30/2018						0.03			
4/3/2018	<0.01	0.045					0.023	0.03	
4/4/2018									0.041
6/6/2018				0.008 (J)					
6/7/2018			0.014		0.019				
6/12/2018						0.024			
6/27/2018								0.028	
6/28/2018	0.0078 (J)	0.047					0.024		
8/7/2018	0.0078 (J)	0.048					0.023	0.027	
9/20/2018									0.038
9/24/2018	0.0071 (J)	0.042					0.021	0.026	
9/26/2018			0.02	0.0075 (J)	0.019				
9/27/2018						0.022			
3/4/2019			0.016	0.0077 (J)	0.019				
3/6/2019						0.019			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
4/3/2019			0.017	0.0087 (J)	0.023				
4/4/2019						0.019			
8/21/2019	0.015	0.035							
8/22/2019							0.019	0.021	0.031
9/24/2019				0.0075 (J)	0.019				
9/25/2019			0.015						
9/27/2019						0.018			
10/9/2019	0.013	0.036					0.019	0.021	0.027
2/12/2020	0.011	0.035	0.012	0.0079 (J)	0.021				
3/24/2020		0.033		0.0076 (J)	0.021				
3/25/2020	0.014		0.016				0.018	0.021	0.03
3/26/2020						0.027			
9/22/2020			0.013	0.0076 (J)	0.019				
9/24/2020	0.016	0.028				0.035			0.026
9/25/2020							0.015	0.016	
2/8/2021				0.0079 (J)	0.02				
2/9/2021			0.013			0.042	0.016		
2/10/2021	0.027	0.032						0.017	0.031
3/2/2021				0.014	0.019				
3/3/2021			0.014						
3/4/2021	0.028	0.032				0.043	0.016	0.017	0.03
8/25/2021						0.049			0.027
8/26/2021	0.038		0.012	0.0092	0.019		0.016	0.018	
9/3/2021		0.035							
9/27/2021									
2/8/2022	0.041	0.039						0.021	
2/10/2022				0.0084	0.02	0.058	0.016		0.026
2/11/2022			0.013						
8/30/2022				0.0079	0.017				
8/31/2022	0.035	0.035	0.013						
9/1/2022						0.053	0.014	0.019	0.023
2/7/2023	0.03			0.0075					
2/8/2023		0.037				0.053	0.016	0.022	0.023
2/9/2023			0.014		0.019				
8/15/2023	0.031	0.034	0.011	0.0074	0.018				
8/16/2023						0.052	0.015	0.02	0.024
2/20/2024	0.029	0.033	0.014	0.0078	0.019				
2/21/2024						0.053			
2/22/2024							0.015	0.019	0.021

Time Series

Constituent: Barium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	0.0065 (J)
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	0.0092 (J)
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	0.0144
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	0.0173
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	0.0183
10/11/2017	
10/12/2017	0.0205
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	0.024
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	0.035
9/24/2018	
9/26/2018	
9/27/2018	
3/4/2019	
3/6/2019	

Time Series

Constituent: Barium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-43
4/3/2019	
4/4/2019	
8/21/2019	0.03
8/22/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	0.04
2/12/2020	
3/24/2020	
3/25/2020	0.033
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	0.046
2/8/2021	
2/9/2021	0.041
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	0.039
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	0.0097
2/8/2022	0.029
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	0.029
2/7/2023	
2/8/2023	0.031
2/9/2023	
8/15/2023	
8/16/2023	0.029
2/20/2024	
2/21/2024	
2/22/2024	0.028

Time Series

Constituent: Barium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/1/2007			0.032						
9/11/2007			0.017						
3/20/2008			0.025						
8/27/2008			0.041						
3/3/2009			0.053						
11/18/2009			0.05						
3/3/2010			0.061						
9/8/2010			0.071						
3/10/2011			0.057						
9/8/2011			0.057						
3/5/2012			0.061						
9/10/2012			0.055						
2/6/2013			0.061						
8/12/2013			0.055						
2/5/2014			0.063						
8/5/2014			0.038						
2/4/2015			0.039						
8/3/2015			0.031						
2/16/2016			0.045						
6/1/2016					0.008	0.012			
6/2/2016				0.0081				0.0064	0.01
7/25/2016						0.0091 (J)		0.0071 (J)	
7/26/2016				0.0082 (J)	0.006 (J)				0.0088 (J)
8/30/2016		0.0413							
8/31/2016			0.0542						
9/1/2016	0.077								
9/13/2016					0.0084 (J)	0.008 (J)			
9/14/2016							0.0037 (J)		
9/15/2016				0.0087 (J)					0.009 (J)
9/19/2016								0.0069 (J)	
11/1/2016					0.0062 (J)			0.007 (J)	0.0079 (J)
11/2/2016				0.0082 (J)					
11/4/2016						0.0067 (J)	0.0059 (J)		
11/14/2016		0.0383							
11/15/2016	0.0772								
11/28/2016			0.0529						
12/15/2016							0.0056 (J)		
1/10/2017				0.0086 (J)					
1/11/2017					0.0069 (J)				0.0075 (J)
1/16/2017						0.0096 (J)	0.0049 (J)	0.0071 (J)	
2/21/2017								0.0077 (J)	
2/22/2017			0.0607						
2/24/2017		0.0351							
2/27/2017	0.0888								
3/1/2017									
3/2/2017					0.0071 (J)	0.0112			0.009 (J)
3/3/2017							0.0046 (J)		
3/8/2017				0.0088 (J)					
4/26/2017				0.0085 (J)				0.0074 (J)	0.0078 (J)
4/27/2017					0.0064 (J)	0.0106			
4/28/2017							0.0039 (J)		
5/8/2017		0.0251	0.065						

Time Series

Constituent: Barium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/9/2017	0.0792								
5/26/2017							0.0034 (J)		
6/27/2017					0.0054 (J)	0.0092 (J)			
6/28/2017							0.003 (J)		0.0071 (J)
6/30/2017				0.0081 (J)				0.0076 (J)	
7/11/2017		0.0233							
7/13/2017	0.0839								
7/17/2017			0.06						
10/10/2017		0.0207							
10/11/2017	0.078								
10/16/2017			0.0542						
2/19/2018			0.0533						
3/27/2018				<0.01		<0.01		<0.01	
3/28/2018							<0.01		<0.01
3/29/2018					<0.01				
4/2/2018		0.022							
4/4/2018	0.074								
6/5/2018					0.0069 (J)				
6/6/2018						0.0082 (J)			
6/7/2018							0.0037 (J)		0.0068 (J)
6/8/2018				0.007 (J)					
6/11/2018								0.007 (J)	
8/6/2018			0.044						
9/19/2018		0.023							
9/20/2018	0.074								
10/1/2018				0.007 (J)	0.0062 (J)	0.0084 (J)	0.0038 (J)		0.0065 (J)
10/2/2018								0.0069 (J)	
2/25/2019			0.045						
2/26/2019				0.0067 (J)				0.007 (J)	
2/27/2019					0.0074 (J)	0.008 (J)	0.0035 (J)		0.0059 (J)
3/28/2019					0.0082 (J)	0.0082 (J)			
3/29/2019				0.0066 (J)			0.0039 (J)		
4/1/2019								0.0072 (J)	0.0064 (J)
6/12/2019			0.063						
8/19/2019			0.065						
8/20/2019		0.024							
9/24/2019					0.0072 (J)	0.0086 (J)	0.0038 (J)		
9/25/2019				0.0071 (J)				0.0066 (J)	0.0059 (J)
9/26/2019	0.065								
10/8/2019		0.025	0.058						
2/10/2020					0.0066 (J)	0.0091 (J)			
2/11/2020							0.0036 (J)		
2/12/2020				0.007 (J)				0.0073 (J)	0.0062 (J)
3/17/2020		0.035	0.047						
3/18/2020				0.0076 (J)		0.0084 (J)			
3/19/2020					0.0076 (J)		0.0036 (J)	0.0074 (J)	0.0072 (J)
3/25/2020	0.071								
8/26/2020			0.044						
8/27/2020		0.027							
9/22/2020		0.026	0.045						
9/23/2020					0.0068 (J)	0.0079 (J)	0.0039 (J)		0.0051 (J)
9/24/2020	0.066							0.0062 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
9/25/2020				0.0073 (J)					
2/9/2021	0.071								
2/10/2021				0.0078 (J)			0.0032 (J)		0.0059 (J)
2/11/2021								0.0077 (J)	
2/12/2021					0.0057 (J)	0.009 (J)			
3/1/2021		0.029						0.007	
3/2/2021			0.039	0.0076					
3/3/2021					0.0068	0.0094	0.0041 (J)		0.0064
3/4/2021	0.069								
8/19/2021		0.029		0.0077	0.0065	0.0079		0.0071	0.0052
8/20/2021			0.036						
8/27/2021							0.003 (J)		
9/1/2021	0.066								
2/8/2022	0.07	0.03	0.037						
2/9/2022					0.0067	0.0088	0.0029 (J)		0.0051
2/10/2022				0.0088					
2/11/2022								0.0077	
8/30/2022			0.031		0.0066		0.003 (J)		
8/31/2022	0.058	0.029		0.0075		0.0074		0.0068	0.0048 (J)
2/7/2023			0.034		0.14	0.21	0.0026 (J)		
2/8/2023		0.031		0.0089				0.0066	0.0048 (J)
2/9/2023	0.063								
8/15/2023		0.032	0.03	0.0079	0.0059	0.0078	0.0031 (J)		0.0046 (J)
8/16/2023	0.058							0.0066	
2/20/2024		0.031	0.035		0.0062	0.004 (J)	0.0044 (J)	0.0064	0.0045 (J)
2/21/2024	0.054								
2/23/2024				0.0096					

Time Series

Constituent: Barium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/1/2007	
9/11/2007	
3/20/2008	
8/27/2008	
3/3/2009	
11/18/2009	
3/3/2010	
9/8/2010	
3/10/2011	
9/8/2011	
3/5/2012	
9/10/2012	
2/6/2013	
8/12/2013	
2/5/2014	
8/5/2014	
2/4/2015	
8/3/2015	
2/16/2016	
6/1/2016	0.0038
6/2/2016	
7/25/2016	0.0031 (J)
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	0.0027 (J)
9/15/2016	
9/19/2016	
11/1/2016	0.0027 (J)
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	0.0036 (J)
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	0.0036 (J)
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	0.0038 (J)
4/27/2017	
4/28/2017	
5/8/2017	

Time Series

Constituent: Barium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	0.004 (J)
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	<0.01
3/29/2018	
4/2/2018	
4/4/2018	
6/5/2018	
6/6/2018	
6/7/2018	
6/8/2018	0.0034 (J)
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	0.0034 (J)
10/2/2018	
2/25/2019	
2/26/2019	
2/27/2019	0.0034 (J)
3/28/2019	
3/29/2019	
4/1/2019	0.003 (J)
6/12/2019	
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	0.005 (J)
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	0.0031 (J)
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	0.0029 (J)
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	0.0039 (J)
9/24/2020	

Time Series

Constituent: Barium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-3I (bg)
9/25/2020	
2/9/2021	
2/10/2021	0.0029 (J)
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	0.0031 (J)
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	0.0039 (J)
9/1/2021	
2/8/2022	
2/9/2022	0.0031 (J)
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	0.003 (J)
2/7/2023	
2/8/2023	0.0029 (J)
2/9/2023	
8/15/2023	
8/16/2023	0.0037 (J)
2/20/2024	0.0032 (J)
2/21/2024	
2/23/2024	

Time Series

Constituent: Barium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50
6/8/2016							0.02	
8/1/2016							0.02	
9/2/2016			0.0409					
9/20/2016							0.0203	
11/8/2016							0.0191	
11/14/2016			0.0182					
1/17/2017							0.0192	
2/28/2017			0.023					
3/8/2017							0.0189	
5/2/2017							0.019	
5/9/2017			0.0349					
7/7/2017							0.019	
7/13/2017			0.0484					
9/22/2017			0.0491					
9/29/2017			0.0452					
10/6/2017			0.0508					
10/12/2017		0.064						
11/21/2017		0.0579						
1/11/2018		0.0549						
2/20/2018		0.0593						
3/30/2018			0.043				0.02	
4/3/2018		0.051						
6/12/2018							0.018	
6/13/2018			0.046					
6/29/2018		0.054						
8/6/2018		0.048						
9/24/2018		0.047						
9/26/2018			0.048				0.019	
10/16/2018	0.063							
3/5/2019							0.019	
3/6/2019			0.041					
4/4/2019			0.042				0.02	
9/26/2019	0.039		0.025				0.017	
3/25/2020	0.039		0.025					
3/26/2020							0.019	
9/23/2020							0.026	
9/24/2020	0.034							
9/25/2020		0.034						
10/7/2020			0.04					
2/9/2021		0.036					0.031	
2/10/2021	0.032		0.035					
3/3/2021							0.025	
3/4/2021	0.033	0.036	0.028					
8/25/2021		0.035						
9/1/2021	0.067						0.025	
9/3/2021			0.038	0.015				
2/10/2022	0.074	0.029				0.017	0.026	
2/11/2022			0.044	0.013	0.032			
8/31/2022	0.1							
9/1/2022		0.023	0.059	0.033	0.015	0.013		
2/8/2023		0.022		0.018	0.012			
2/9/2023	0.13		0.097			0.015		

Time Series

Constituent: Barium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50
2/10/2023							0.031	
8/16/2023	0.18		0.19	0.021		0.014	0.025	
8/17/2023		0.023			0.011			0.022
12/20/2023								0.02
2/21/2024		0.021		0.02	0.0091			
2/22/2024						0.015		0.018
2/23/2024	0.21		0.13				0.032	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							<0.0005	<0.0005	
6/7/2016						<0.0005			<0.0005
7/27/2016						<0.0005	<0.0005	<0.0005	<0.0005
7/28/2016									
9/16/2016						<0.0005		<0.0005	
9/19/2016							<0.0005		<0.0005
11/2/2016									<0.0005
11/3/2016						<0.0005	<0.0005	<0.0005	
1/11/2017						<0.0005	<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
4/26/2017							<0.0005	<0.0005	<0.0005
5/2/2017						<0.0005			
6/28/2017							<0.0005	<0.0005	
6/29/2017						<0.0005			<0.0005
3/28/2018						<0.0005	<0.0005	<0.0005	
3/29/2018									<0.0005
6/5/2018									
6/6/2018									8E-05 (J)
6/7/2018							<0.0005		
6/11/2018						9E-05 (J)		5.7E-05 (J)	
9/25/2018						8.9E-05 (J)	<0.0005	8.2E-05 (J)	6.1E-05 (J)
10/16/2018	<0.0005								
3/5/2019						9.1E-05 (J)		7.9E-05 (J)	0.00011 (J)
3/6/2019							<0.0005		
4/2/2019						9E-05 (J)			
4/3/2019							<0.0005	7.5E-05 (J)	6.4E-05 (J)
9/24/2019									
9/25/2019						8.1E-05 (J)			<0.0005
9/26/2019	<0.0005						<0.0005	8.4E-05 (J)	
1/15/2020					0.00017 (J)				
2/11/2020						7.8E-05 (J)	<0.0005	7.6E-05 (J)	
2/12/2020									7.8E-05 (J)
3/24/2020						8E-05 (J)	<0.0005	8.9E-05 (J)	7.6E-05 (J)
3/25/2020	0.00037 (J)								
9/23/2020		<0.0005		<0.0005		8.1E-05 (J)	<0.0005	8.8E-05 (J)	
9/24/2020	5.8E-05 (J)				8.6E-05 (J)				8.3E-05 (J)
2/9/2021	<0.0005	5.1E-05 (J)		<0.0005	0.00015 (J)		<0.0005	9.8E-05 (J)	6.8E-05 (J)
3/3/2021	<0.0005	<0.0005		<0.0005		9.9E-05 (J)	<0.0005	0.00011 (J)	6.8E-05 (J)
3/4/2021					0.00013 (J)				
8/25/2021				<0.0005					
8/26/2021					0.00012 (J)			9.3E-05 (J)	
8/27/2021						0.0001 (J)	<0.0005		5.9E-05 (J)
9/1/2021	9.5E-05 (J)	6.5E-05 (J)							
2/9/2022						0.00011 (J)	<0.0005	8.9E-05 (J)	7.7E-05 (J)
2/10/2022	0.00016 (J)	7.4E-05 (J)	7.8E-05 (J)	<0.0005	0.00013 (J)				
8/30/2022						0.0001 (J)	<0.0005	8.2E-05 (J)	
8/31/2022	0.00011 (J)								<0.0005
9/1/2022		5.7E-05 (J)	0.00011 (J)	<0.0005	0.00011 (J)				
2/7/2023						9.6E-05 (J)	<0.0005	7.1E-05 (J)	7.4E-05 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
2/8/2023		5.5E-05 (J)		<0.0005	0.00013 (J)				
2/9/2023	0.00012 (J)		6.2E-05 (J)						
8/15/2023						<0.0005	<0.0005	5.7E-05 (J)	<0.0005
8/16/2023	0.00028 (J)		0.00017 (J)	<0.0005	0.00011 (J)				
8/17/2023		6.9E-05 (J)							
2/20/2024						0.0001 (J)	<0.0005		<0.0005
2/21/2024			0.00019 (J)						
2/22/2024		<0.0005		<0.0005	0.00013 (J)				
2/23/2024	0.00015 (J)							<0.0005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	<0.0005
7/27/2016	
7/28/2016	<0.0005
9/16/2016	
9/19/2016	<0.0005
11/2/2016	
11/3/2016	<0.0005
1/11/2017	
1/13/2017	<0.0005
3/1/2017	
3/2/2017	
3/6/2017	<0.0005
4/26/2017	<0.0005
5/2/2017	
6/28/2017	
6/29/2017	<0.0005
3/28/2018	
3/29/2018	<0.0005
6/5/2018	<0.0005
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	<0.0005
10/16/2018	
3/5/2019	<0.0005
3/6/2019	
4/2/2019	<0.0005
4/3/2019	
9/24/2019	<0.0005
9/25/2019	
9/26/2019	
1/15/2020	
2/11/2020	
2/12/2020	<0.0005
3/24/2020	<0.0005
3/25/2020	
9/23/2020	
9/24/2020	<0.0005
2/9/2021	<0.0005
3/3/2021	
3/4/2021	<0.0005
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	<0.0005
2/9/2022	<0.0005
2/10/2022	
8/30/2022	<0.0005
8/31/2022	
9/1/2022	
2/7/2023	<0.0005

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-21I (bg)
2/8/2023	
2/9/2023	
8/15/2023	<0.0005
8/16/2023	
8/17/2023	
2/20/2024	<0.0005
2/21/2024	
2/22/2024	
2/23/2024	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.0005	<0.0005	<0.0005				
6/7/2016						<0.0005			
7/26/2016			<0.0005	<0.0005	<0.0005				
7/28/2016						<0.0005			
8/30/2016									9E-05 (J)
8/31/2016									
9/14/2016			<0.0005	<0.0005	<0.0005				
9/20/2016						0.0001 (J)			
11/2/2016			<0.0005	<0.0005					
11/4/2016					<0.0005				
11/8/2016						<0.0005			
11/16/2016									<0.0005
1/12/2017				<0.0005	<0.0005				
1/13/2017			<0.0005						
1/16/2017						0.0001 (J)			
2/24/2017									
2/27/2017									<0.0005
3/6/2017			<0.0005						
3/7/2017				<0.0005	<0.0005				
3/9/2017						0.0001 (J)			
5/1/2017			<0.0005	<0.0005					
5/2/2017					<0.0005	9E-05 (J)			
5/10/2017									9E-05 (J)
6/27/2017				<0.0005	<0.0005				
6/29/2017			<0.0005						
7/10/2017						<0.0005			
7/11/2017									0.0001 (J)
10/11/2017	<0.0005								
10/12/2017		0.0002 (J)					0.0057	0.0036	<0.0005
11/20/2017	<0.0005	0.0003 (J)					0.0053		
11/21/2017								0.0036	
1/10/2018		0.0003 (J)							
1/11/2018	<0.0005							0.0037	
1/12/2018							0.0053		
2/19/2018		<0.0005						0.0039	
2/20/2018	<0.0005						0.0053		
3/29/2018			<0.0005	<0.0005	<0.0005				
3/30/2018						<0.0005			
4/3/2018	<0.0005	<0.0005					0.0056	0.0037	
4/4/2018									<0.0005
6/6/2018				<0.0005					
6/7/2018			<0.0005		<0.0005				
6/12/2018						8.1E-05 (J)			
6/27/2018								0.0038	
6/28/2018	<0.0005	0.00029 (J)					0.0059		
8/7/2018	<0.0005	0.00024 (J)					0.0058	0.0037	
9/20/2018									<0.0005
9/24/2018	<0.0005	0.00019 (J)					0.0051	0.0032	
9/26/2018			<0.0005	<0.0005	<0.0005				
9/27/2018						9E-05 (J)			
3/4/2019			<0.0005	<0.0005	<0.0005				
3/6/2019						6.6E-05 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
4/3/2019			<0.0005	<0.0005	<0.0005				
4/4/2019						7.2E-05 (J)			
8/21/2019	<0.0005	0.0002 (J)							
8/22/2019							0.0049	0.0026 (J)	<0.0005
9/24/2019				<0.0005	<0.0005				
9/25/2019			<0.0005						
9/27/2019						7.7E-05 (J)			
10/9/2019	<0.0005	0.0002 (J)					0.0046	0.0026 (J)	<0.0005
2/12/2020	<0.0005	0.00018 (J)	<0.0005	<0.0005	<0.0005				
3/24/2020		0.00022 (J)		<0.0005	<0.0005				
3/25/2020	<0.0005		<0.0005				0.0038	0.0026 (J)	<0.0005
3/26/2020						9E-05 (J)			
9/22/2020			<0.0005	<0.0005	<0.0005				
9/24/2020	<0.0005	0.0002 (J)				0.00015 (J)			6.7E-05 (J)
9/25/2020							0.0033	0.002 (J)	
2/8/2021				<0.0005	<0.0005				
2/9/2021			<0.0005			0.00015 (J)	0.0029 (J)		
2/10/2021	5.1E-05 (J)	0.00021 (J)						0.0015 (J)	5.7E-05 (J)
3/2/2021				<0.0005	<0.0005				
3/3/2021			<0.0005						
3/4/2021	<0.0005	0.00021 (J)				0.00013 (J)	0.0029	0.0015	<0.0005
8/25/2021						0.00019 (J)			<0.0005
8/26/2021	<0.0005		<0.0005	<0.0005	<0.0005		0.0028	0.0012	
9/3/2021		0.00024 (J)							
9/27/2021									
2/8/2022	<0.0005	0.00028 (J)						0.0016	
2/10/2022				<0.0005	<0.0005	0.00023 (J)	0.0027		6.1E-05 (J)
2/11/2022			<0.0005						
8/30/2022				<0.0005	<0.0005				
8/31/2022	<0.0005	0.00025 (J)	<0.0005						
9/1/2022						0.00019 (J)	0.0022	0.0013	<0.0005
2/7/2023	<0.0005			<0.0005					
2/8/2023		0.00026 (J)				0.00022 (J)	0.002	0.0013	6.2E-05 (J)
2/9/2023			<0.0005		<0.0005				
8/15/2023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005				
8/16/2023						0.0002 (J)	0.0018	0.0012	5.7E-05 (J)
2/20/2024	<0.0005	0.00025 (J)	<0.0005	<0.0005	<0.0005				
2/21/2024						0.00019 (J)			
2/22/2024							0.0019	0.0014	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	<0.0005
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	<0.0005
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	<0.0005
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	<0.0005
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	<0.0005
10/11/2017	
10/12/2017	0.0001 (J)
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	<0.0005
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	0.00029 (J)
9/24/2018	
9/26/2018	
9/27/2018	
3/4/2019	
3/6/2019	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-43
4/3/2019	
4/4/2019	
8/21/2019	0.0003 (J)
8/22/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	0.00034 (J)
2/12/2020	
3/24/2020	
3/25/2020	0.00034 (J)
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	0.00054 (J)
2/8/2021	
2/9/2021	0.00053 (J)
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	0.00056
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	0.00015 (J)
2/8/2022	0.00037 (J)
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	0.00033 (J)
2/7/2023	
2/8/2023	0.00036 (J)
2/9/2023	
8/15/2023	
8/16/2023	0.00034 (J)
2/20/2024	
2/21/2024	
2/22/2024	0.00032 (J)

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/1/2007			<0.0005						
9/11/2007			<0.0005						
3/20/2008			<0.0005						
8/27/2008			<0.0005						
3/3/2009			<0.0005						
11/18/2009			<0.0005						
3/3/2010			<0.0005						
9/8/2010			<0.0005						
3/10/2011			<0.0005						
9/8/2011			<0.0005						
3/5/2012			<0.0005						
9/10/2012			<0.0005						
2/6/2013			<0.0005						
8/12/2013			<0.0005						
2/5/2014			<0.0005						
8/5/2014			<0.0005						
2/4/2015			<0.0005						
8/3/2015			<0.0005						
2/16/2016			<0.0005						
6/1/2016					<0.0005	<0.0005			
6/2/2016				<0.0005				<0.0005	<0.0005
7/25/2016						<0.0005		<0.0005	
7/26/2016				0.0002 (J)	<0.0005				<0.0005
8/30/2016		<0.0005							
8/31/2016			<0.0005						
9/1/2016	0.0001 (J)								
9/13/2016					<0.0005	<0.0005			
9/14/2016							<0.0005		
9/15/2016				0.0002 (J)					<0.0005
9/19/2016								<0.0005	
11/1/2016					<0.0005			<0.0005	<0.0005
11/2/2016				0.0002 (J)					
11/4/2016						<0.0005	<0.0005		
11/14/2016		<0.0005							
11/15/2016	0.0001 (J)								
11/28/2016			<0.0005						
12/15/2016							<0.0005		
1/10/2017				0.0002 (J)					
1/11/2017					<0.0005				<0.0005
1/16/2017						<0.0005	<0.0005	<0.0005	
2/21/2017								<0.0005	
2/22/2017			<0.0005						
2/24/2017		<0.0005							
2/27/2017	0.0001 (J)								
3/1/2017									
3/2/2017					<0.0005	<0.0005			<0.0005
3/3/2017							<0.0005		
3/8/2017				0.0002 (J)					
4/26/2017				0.0002 (J)				<0.0005	<0.0005
4/27/2017					<0.0005	<0.0005			
4/28/2017							<0.0005		
5/8/2017		7E-05 (J)	<0.0005						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/9/2017	0.0001 (J)								
5/26/2017							<0.0005		
6/27/2017					<0.0005	<0.0005			
6/28/2017							<0.0005		<0.0005
6/30/2017				0.0002 (J)				<0.0005	
7/11/2017		<0.0005							
7/13/2017	0.0001 (J)								
7/17/2017			<0.0005						
10/10/2017		<0.0005							
10/11/2017	0.0001 (J)								
10/16/2017			<0.0005						
2/19/2018			<0.0005						
3/27/2018				<0.0005		<0.0005		<0.0005	
3/28/2018							<0.0005		<0.0005
3/29/2018					<0.0005				
4/2/2018		<0.0005							
4/4/2018	<0.0005								
8/6/2018			<0.0005						
9/19/2018		5.7E-05 (J)							
9/20/2018	0.00011 (J)								
2/25/2019			<0.0005						
2/26/2019				0.00016 (J)				7.2E-05 (J)	
2/27/2019					<0.0005	<0.0005	<0.0005		<0.0005
3/28/2019					<0.0005	<0.0005			
3/29/2019				0.00017 (J)			<0.0005		
4/1/2019								<0.0005	<0.0005
6/12/2019			<0.0005						
8/19/2019			<0.0005						
8/20/2019		<0.0005							
9/24/2019					<0.0005	<0.0005	<0.0005		
9/25/2019				0.00018 (J)				<0.0005	<0.0005
9/26/2019	0.00013 (J)								
10/8/2019			<0.0005						
2/10/2020					<0.0005	<0.0005			
2/11/2020							<0.0005		
2/12/2020				0.00019 (J)				<0.0005	<0.0005
3/17/2020			<0.0005						
3/18/2020				0.00021 (J)		<0.0005			
3/19/2020					<0.0005		<0.0005	<0.0005	<0.0005
3/25/2020	0.00013 (J)								
8/26/2020			<0.0005						
8/27/2020		4.7E-05 (J)							
9/22/2020		<0.0005	<0.0005						
9/23/2020					<0.0005	<0.0005	<0.0005		<0.0005
9/24/2020	0.00013 (J)							<0.0005	
9/25/2020				0.00018 (J)					
2/9/2021	0.00013 (J)								
2/10/2021				0.00019 (J)			<0.0005		<0.0005
2/11/2021								4.7E-05 (J)	
2/12/2021					<0.0005	<0.0005			
3/1/2021		5.5E-05 (J)						<0.0005	
3/2/2021			<0.0005	0.00018 (J)					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
3/3/2021					<0.0005	<0.0005	<0.0005		<0.0005
3/4/2021	0.0001 (J)								
8/19/2021		<0.0005		0.00022 (J)	<0.0005	<0.0005		<0.0005	<0.0005
8/20/2021			<0.0005						
8/27/2021							<0.0005		
9/1/2021	0.00012 (J)								
2/8/2022	0.00015 (J)	5.6E-05 (J)	<0.0005						
2/9/2022					<0.0005	<0.0005	<0.0005		<0.0005
2/10/2022				0.00025 (J)					
2/11/2022								<0.0005	
8/30/2022			<0.0005		<0.0005		<0.0005		
8/31/2022	0.00017 (J)	<0.0005		0.0002 (J)		<0.0005		<0.0005	<0.0005
2/7/2023			<0.0005		0.0011	0.00054	<0.0005		
2/8/2023		<0.0005		0.00022 (J)				<0.0005	<0.0005
2/9/2023	0.00012 (J)								
8/15/2023		<0.0005	<0.0005	0.00018 (J)	<0.0005	<0.0005	<0.0005		<0.0005
8/16/2023	0.00011 (J)							<0.0005	
2/20/2024		<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2/21/2024	0.0001 (J)								
2/23/2024				0.00024 (J)					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/1/2007	
9/11/2007	
3/20/2008	
8/27/2008	
3/3/2009	
11/18/2009	
3/3/2010	
9/8/2010	
3/10/2011	
9/8/2011	
3/5/2012	
9/10/2012	
2/6/2013	
8/12/2013	
2/5/2014	
8/5/2014	
2/4/2015	
8/3/2015	
2/16/2016	
6/1/2016	<0.0005
6/2/2016	
7/25/2016	<0.0005
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	<0.0005
9/15/2016	
9/19/2016	
11/1/2016	<0.0005
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	<0.0005
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	<0.0005
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	<0.0005
4/27/2017	
4/28/2017	
5/8/2017	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	<0.0005
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	<0.0005
3/29/2018	
4/2/2018	
4/4/2018	
8/6/2018	
9/19/2018	
9/20/2018	
2/25/2019	
2/26/2019	
2/27/2019	<0.0005
3/28/2019	
3/29/2019	
4/1/2019	<0.0005
6/12/2019	
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	<0.0005
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	<0.0005
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	<0.0005
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	5.9E-05 (J)
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	<0.0005
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-3I (bg)
3/3/2021	<0.0005
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	<0.0005
9/1/2021	
2/8/2022	
2/9/2022	<0.0005
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	<0.0005
2/7/2023	
2/8/2023	<0.0005
2/9/2023	
8/15/2023	
8/16/2023	<0.0005
2/20/2024	<0.0005
2/21/2024	
2/23/2024	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50
6/8/2016							<0.0005	
8/1/2016							0.0001 (J)	
9/2/2016			0.0003 (J)					
9/20/2016							0.0001 (J)	
11/8/2016							<0.0005	
11/14/2016			9E-05 (J)					
1/17/2017							0.0001 (J)	
2/28/2017			0.0001 (J)					
3/8/2017							0.0001 (J)	
5/2/2017							0.0001 (J)	
5/9/2017			0.0002 (J)					
7/7/2017							0.0001 (J)	
7/13/2017			0.0003 (J)					
9/22/2017			0.0003 (J)					
9/29/2017			0.0003 (J)					
10/6/2017			0.0003 (J)					
10/12/2017		0.0004 (J)						
11/21/2017		0.0004 (J)						
1/11/2018		0.0003 (J)						
2/20/2018		<0.0005						
3/30/2018			<0.0005				<0.0005	
4/3/2018		<0.0005						
6/12/2018							0.00012 (J)	
6/13/2018			0.00035 (J)					
6/29/2018		0.00033 (J)						
8/6/2018		0.0002 (J)						
8/30/2018	0.00052 (J)							
9/24/2018		0.00029 (J)						
9/26/2018			0.00032 (J)				0.00014 (J)	
10/16/2018	0.00036 (J)							
3/5/2019							0.00016 (J)	
3/6/2019			0.00029 (J)					
4/4/2019			0.00033 (J)				0.00015 (J)	
9/26/2019	<0.0005		0.00029 (J)				0.00014 (J)	
3/25/2020	<0.0005		0.00022 (J)					
3/26/2020							0.00016 (J)	
9/23/2020							6.1E-05 (J)	
9/24/2020	0.00033 (J)							
9/25/2020		0.00031 (J)						
10/7/2020			0.00014 (J)					
2/9/2021		0.00029 (J)					0.00013 (J)	
2/10/2021	0.00025 (J)		9.9E-05 (J)					
3/3/2021							9.9E-05 (J)	
3/4/2021	0.00025 (J)	0.00017 (J)	0.00016 (J)					
8/25/2021		0.00059						
9/1/2021	0.00045 (J)						0.00014 (J)	
9/3/2021			0.00035 (J)	<0.0005				
2/10/2022	0.00055	0.001				0.0033	0.00016 (J)	
2/11/2022			0.00043 (J)	<0.0005	5.9E-05 (J)			
8/31/2022	0.00061							
9/1/2022		0.0011	0.00053	<0.0005	<0.0005	0.0031		
2/8/2023		0.0011		<0.0005	<0.0005			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50
2/9/2023	0.0008		0.00066			0.0024		
2/10/2023							5.4E-05 (J)	
8/16/2023	0.0011		0.0011	<0.0005		0.0028	9.6E-05 (J)	
8/17/2023		0.0012			8.6E-05 (J)			0.0047
12/20/2023								0.0051
2/21/2024		0.0012		<0.0005	<0.0005			
2/22/2024						0.0029		0.0049
2/23/2024	0.0015		0.0018				0.00015 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							<0.04	<0.04	
6/7/2016						<0.04			<0.04
7/27/2016						0.008 (J)	<0.04	0.0059 (J)	<0.04
7/28/2016									
9/16/2016						0.0086 (J)		0.0079 (J)	
9/19/2016							<0.04		<0.04
11/2/2016									<0.04
11/3/2016						0.0077 (J)	<0.04	0.0082 (J)	
1/11/2017						0.0092 (J)	<0.04	0.0096 (J)	
1/13/2017									<0.04
3/1/2017							<0.04	<0.04	
3/2/2017						0.0095 (J)			
3/6/2017									<0.04
4/26/2017							<0.04	0.0091 (J)	<0.04
5/2/2017						<0.04			
6/28/2017							<0.04	0.0079 (J)	
6/29/2017						0.0074 (J)			<0.04
10/3/2017									
10/4/2017						0.0077 (J)		0.009 (J)	<0.04
10/5/2017							<0.04		
6/5/2018									
6/6/2018									0.0049 (J)
6/7/2018							<0.04		
6/11/2018						0.01 (J)		0.0093 (J)	
9/25/2018						0.0096 (J)	0.0046 (J)	0.007 (J)	<0.04
10/16/2018	0.2								
4/2/2019						0.0066 (J)			
4/3/2019							<0.04	0.0053 (J)	<0.04
9/24/2019									
9/25/2019						0.0081 (J)			<0.04
9/26/2019	0.092						0.0062 (J)	0.0072 (J)	
1/15/2020		0.031 (J)			8.7				
1/16/2020			6.8	1.9					
2/11/2020			4.5		7.8				
3/24/2020						0.0092 (J)	0.0054 (J)	0.01 (J)	<0.04
3/25/2020	0.018 (J)								
9/23/2020		0.026 (J)		2.5		0.0066 (J)	0.021 (J)	0.006 (J)	
9/24/2020	0.076 (J)				8.7				0.0094 (J)
3/3/2021	0.039 (J)	0.032 (J)		0.81		0.01 (J)	<0.04	0.0094 (J)	<0.04
3/4/2021					6.1				
8/25/2021				2.8					
8/26/2021					5.9			<0.04	
8/27/2021						0.011 (J)	<0.04		<0.04
9/1/2021	0.18	0.017 (J)							
2/9/2022						0.0098 (J)	<0.04	<0.04	<0.04
2/10/2022	0.36	0.022 (J)	7.7	3	4.9				
8/30/2022						0.013 (J)	<0.04	0.014 (J)	
8/31/2022	0.58								<0.04
9/1/2022		0.046	7.1	3.2	6.1				
2/7/2023						0.014 (J)	<0.04	<0.04	<0.04
2/8/2023		0.031 (J)		3	6.5				
2/9/2023	0.63		8.1						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
8/15/2023						<0.04	<0.04	<0.04	<0.04
8/16/2023	0.55		5	3.2	6.4				
8/17/2023		0.04							
2/20/2024						<0.04	<0.04		<0.04
2/21/2024			8.6						
2/22/2024		0.019 (J)		3.8	6.7				
2/23/2024	1.5							0.018 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	<0.04
7/27/2016	
7/28/2016	<0.04
9/16/2016	
9/19/2016	<0.04
11/2/2016	
11/3/2016	<0.04
1/11/2017	
1/13/2017	<0.04
3/1/2017	
3/2/2017	
3/6/2017	<0.04
4/26/2017	<0.04
5/2/2017	
6/28/2017	
6/29/2017	<0.04
10/3/2017	<0.04
10/4/2017	
10/5/2017	
6/5/2018	0.0092 (J)
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	0.0054 (J)
10/16/2018	
4/2/2019	0.011 (J)
4/3/2019	
9/24/2019	0.018 (J)
9/25/2019	
9/26/2019	
1/15/2020	
1/16/2020	
2/11/2020	
3/24/2020	0.016 (J)
3/25/2020	
9/23/2020	
9/24/2020	0.013 (J)
3/3/2021	
3/4/2021	0.0079 (J)
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	<0.04
2/9/2022	<0.04
2/10/2022	
8/30/2022	0.012 (J)
8/31/2022	
9/1/2022	
2/7/2023	<0.04
2/8/2023	
2/9/2023	

Time Series

Constituent: Boron (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-21I (bg)
8/15/2023	0.046 (J)
8/16/2023	
8/17/2023	
2/20/2024	<0.04
2/21/2024	
2/22/2024	
2/23/2024	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.04	<0.04	<0.04				
6/7/2016						0.99			
7/26/2016			0.0047 (J)	0.0052 (J)	<0.04				
7/28/2016						1.09			
8/30/2016									24.7
8/31/2016									
9/14/2016			<0.04	0.0071 (J)	0.01 (J)				
9/20/2016						1.35			
11/2/2016			<0.04	<0.04					
11/4/2016					<0.04				
11/8/2016						1.5			
11/16/2016									16.4
1/12/2017				0.0076 (J)	<0.04				
1/13/2017			<0.04						
1/16/2017						1.67			
2/24/2017									
2/27/2017									17.9
3/6/2017			<0.04						
3/7/2017				0.0089 (J)	<0.04				
3/9/2017						1.44			
5/1/2017			<0.04	0.0061 (J)					
5/2/2017					<0.04	1.2			
5/10/2017									20.4
6/27/2017				0.0079 (J)	<0.04				
6/29/2017			<0.04						
7/10/2017						1.12			
7/11/2017									25.2
10/3/2017				0.0094 (J)	<0.04				
10/5/2017			<0.04						
10/11/2017	0.0135 (J)					1.09			
10/12/2017		0.0401					19.3	12	20
11/20/2017	0.0251 (J)	0.156					21.8		
11/21/2017								12.1	
1/10/2018		0.15							
1/11/2018	0.0255 (J)							12.8	
1/12/2018							18.7		
2/19/2018		0.146						15.2	
2/20/2018	<0.04						18.6		
4/3/2018	0.033 (J)	0.12					20.9	14.5	
4/4/2018									22.7
6/6/2018				0.0098 (J)					
6/7/2018			0.0045 (J)		<0.04				
6/12/2018						0.9			
6/27/2018								14.1	
6/28/2018	0.053	0.16					22.7		
8/7/2018	0.024 (J)	0.12					19.1	11.9	
9/20/2018									20.3
9/24/2018	0.028 (J)	0.099					18.4	12.2	
9/26/2018			0.005 (J)	0.01 (J)	0.0057 (J)				
9/27/2018						0.71			
3/26/2019		0.096							
3/27/2019	0.017 (J)						16.7		20.3

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
3/28/2019								7.1	
4/3/2019			0.0055 (J)	0.0076 (J)	0.0044 (J)				
4/4/2019						0.6			
9/24/2019				0.01 (J)	0.0049 (J)				
9/25/2019			<0.04						
9/27/2019						0.58			
10/9/2019	0.017 (J)	0.079					13.5	8.6	16.6
3/24/2020		0.088 (J)		0.011 (J)	0.0068 (J)				
3/25/2020	0.043 (J)		0.011 (J)				9.3	7.9	15.5
3/26/2020						0.94			
9/22/2020			<0.04	0.0079 (J)	0.0053 (J)				
9/24/2020	0.037 (J)	0.087 (J)				1.1			15.2
9/25/2020							8	6	
3/2/2021				0.0068 (J)	0.011 (J)				
3/3/2021			0.0056 (J)						
3/4/2021	0.033 (J)	0.078				1.2	6.4	4	14.8
8/25/2021						1.3			13.5
8/26/2021	0.095		<0.04	0.009 (J)	<0.04		6.1	3.3	
9/3/2021		0.077							
9/27/2021									
2/8/2022	0.13	0.074						4	
2/10/2022				0.011 (J)	<0.04	1.5	5.4		14.4
2/11/2022			<0.04						
8/30/2022				0.0098 (J)	<0.04				
8/31/2022	0.14	0.062	<0.04						
9/1/2022						1.5	4.8	3.6	13.4
2/7/2023	0.13			<0.04					
2/8/2023		0.057				1.6	4.1	3.3	14.5
2/9/2023			<0.04		<0.04				
8/15/2023	0.15 (J)	0.052 (J)	<0.04	<0.04	<0.04				
8/16/2023						1.2	3.7	3.1	7.1
2/20/2024	0.12	0.056	<0.04	<0.04	<0.04				
2/21/2024						1.3			
2/22/2024							3.7	3.5	15.5

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	0.169
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	0.406
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	0.725
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	0.955
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	0.994
10/3/2017	
10/5/2017	
10/11/2017	
10/12/2017	1.15
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
4/3/2018	
4/4/2018	1.2
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	2.1
9/24/2018	
9/26/2018	
9/27/2018	
3/26/2019	
3/27/2019	

Time Series

Constituent: Boron (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-43
3/28/2019	1.8
4/3/2019	
4/4/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	2.7
3/24/2020	
3/25/2020	2.4
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	3.9
3/2/2021	
3/3/2021	
3/4/2021	3.6
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	0.64
2/8/2022	2.3
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	2.6
2/7/2023	
2/8/2023	2.5
2/9/2023	
8/15/2023	
8/16/2023	2.8
2/20/2024	
2/21/2024	
2/22/2024	2.3

Time Series

Constituent: Boron (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/1/2016					<0.04	<0.04			
6/2/2016				<0.04				<0.04	<0.04
7/25/2016						<0.04		<0.04	
7/26/2016				0.0177 (J)	0.0055 (J)				0.0097 (J)
8/30/2016		0.0166 (J)							
8/31/2016			0.0315 (J)						
9/1/2016	0.0113 (J)								
9/13/2016					<0.04	<0.04			
9/14/2016							<0.04		
9/15/2016				0.0214 (J)					0.0102 (J)
9/19/2016								<0.04	
11/1/2016					0.0086 (J)			<0.04	<0.04
11/2/2016				<0.04					
11/4/2016						<0.04	<0.04		
11/14/2016		0.0166 (J)							
11/15/2016	0.0074 (J)								
11/28/2016			0.0095 (J)						
12/15/2016							0.0107 (J)		
1/10/2017				0.0198 (J)					
1/11/2017					0.0074 (J)				<0.04
1/16/2017						<0.04	<0.04	<0.04	
2/21/2017								<0.04	
2/22/2017			<0.04						
2/24/2017		0.0145 (J)							
2/27/2017	<0.04								
3/1/2017									
3/2/2017					0.008 (J)	<0.04			0.0084 (J)
3/3/2017							<0.04		
3/8/2017				0.0189 (J)					
4/26/2017				0.0161 (J)				<0.04	<0.04
4/27/2017					0.0066 (J)	<0.04			
4/28/2017							<0.04		
5/8/2017		0.0141 (J)	0.0084 (J)						
5/9/2017	<0.04								
5/26/2017							<0.04		
6/27/2017					0.0087 (J)	0.006 (J)			
6/28/2017							<0.04		<0.04
6/30/2017				0.0173 (J)				<0.04	
7/11/2017		0.0131 (J)							
7/13/2017	0.0093 (J)								
7/17/2017			0.0092 (J)						
10/3/2017					0.0072 (J)	0.0071 (J)	<0.04		
10/4/2017								<0.04	<0.04
10/5/2017				0.0173 (J)					
10/10/2017		0.0124 (J)							
10/11/2017	<0.04								
10/16/2017			<0.04						
2/19/2018			<0.04						
4/2/2018		0.013 (J)							
4/4/2018	0.0041 (J)								
6/5/2018					0.0052 (J)				
6/6/2018						<0.04			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/7/2018							<0.04		0.004 (J)
6/8/2018				0.013 (J)					
6/11/2018								0.014 (J)	
8/6/2018			<0.04						
9/19/2018		0.012 (J)							
9/20/2018	0.0042 (J)								
10/1/2018				0.015 (J)	0.021 (J)	0.0049 (J)	<0.04		<0.04
10/2/2018								<0.04	
2/25/2019			<0.04						
3/27/2019		0.013 (J)							
3/28/2019	<0.04				0.005 (J)	<0.04			
3/29/2019				0.014 (J)			0.0065 (J)		
4/1/2019								<0.04	<0.04
6/12/2019			<0.04						
9/24/2019					0.0064 (J)	0.0055 (J)	0.0076 (J)		
9/25/2019				0.018 (J)				<0.04	0.0054 (J)
9/26/2019	<0.04								
10/8/2019		0.012 (J)	<0.04						
3/17/2020		0.023 (J)	0.0051 (J)						
3/18/2020				0.02 (J)		0.0087 (J)			
3/19/2020					0.0085 (J)		0.0073 (J)	0.0052 (J)	0.0073 (J)
3/25/2020	0.012 (J)								
9/22/2020		0.0076 (J)	0.0079 (J)						
9/23/2020					<0.04	<0.04	<0.04		0.012 (J)
9/24/2020	0.062 (J)							0.0075 (J)	
9/25/2020				0.02 (J)					
3/1/2021		0.013 (J)						<0.04	
3/2/2021			<0.04	0.017 (J)					
3/3/2021					<0.04	<0.04	<0.04		<0.04
3/4/2021	<0.04								
8/19/2021		0.011 (J)		0.018 (J)	<0.04	<0.04		<0.04	<0.04
8/20/2021			<0.04						
8/27/2021							<0.04		
9/1/2021	<0.04								
2/8/2022	<0.04	0.015 (J)	<0.04						
2/9/2022					<0.04	<0.04	<0.04		0.01 (J)
2/10/2022				0.02 (J)					
2/11/2022								<0.04	
8/30/2022			<0.04		<0.04		<0.04		
8/31/2022	0.011 (J)	0.0091 (J)		0.015 (J)		<0.04		<0.04	<0.04
2/7/2023			<0.04		<0.04	<0.04	<0.04		
2/8/2023		0.011 (J)		0.015 (J)				<0.04	<0.04
2/9/2023	0.014 (J)								
8/15/2023		<0.04	<0.04	0.017 (J)	<0.04	0.0094 (J)	<0.04		<0.04
8/16/2023	0.012 (J)							<0.04	
2/20/2024		0.023 (J)	0.017 (J)		0.015 (J)	0.014 (J)	<0.04	<0.04	<0.04
2/21/2024	<0.04								
2/23/2024				0.037 (J)					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/1/2016	<0.04
6/2/2016	
7/25/2016	<0.04
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	<0.04
9/15/2016	
9/19/2016	
11/1/2016	<0.04
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	<0.04
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	<0.04
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	<0.04
4/27/2017	
4/28/2017	
5/8/2017	
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	<0.04
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/3/2017	
10/4/2017	<0.04
10/5/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
4/2/2018	
4/4/2018	
6/5/2018	
6/6/2018	

Time Series

Constituent: Boron (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/7/2018	
6/8/2018	<0.04
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	<0.04
10/2/2018	
2/25/2019	
3/27/2019	
3/28/2019	
3/29/2019	
4/1/2019	<0.04
6/12/2019	
9/24/2019	
9/25/2019	<0.04
9/26/2019	
10/8/2019	
3/17/2020	
3/18/2020	
3/19/2020	0.0053 (J)
3/25/2020	
9/22/2020	
9/23/2020	0.0073 (J)
9/24/2020	
9/25/2020	
3/1/2021	
3/2/2021	
3/3/2021	<0.04
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	<0.04
9/1/2021	
2/8/2022	
2/9/2022	<0.04
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	<0.04
2/7/2023	
2/8/2023	<0.04
2/9/2023	
8/15/2023	
8/16/2023	<0.04
2/20/2024	<0.04
2/21/2024	
2/23/2024	

Time Series

Constituent: Boron (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50
6/8/2016							<0.04	
8/1/2016							<0.04	
9/2/2016			0.133					
9/20/2016							<0.04	
11/8/2016							<0.04	
11/14/2016			0.287					
1/17/2017							<0.04	
2/28/2017			0.215					
3/8/2017							<0.04	
5/2/2017							0.0099 (J)	
5/9/2017			0.233					
7/7/2017							0.0076 (J)	
7/13/2017			0.262					
9/22/2017			0.238					
9/29/2017			0.235					
10/5/2017							<0.04	
10/6/2017			0.256					
10/11/2017			0.245					
10/12/2017		15.4						
11/21/2017		17.2						
1/11/2018		15.8						
2/20/2018		19.5						
4/3/2018		17.5						
6/12/2018							0.018 (J)	
6/13/2018			0.25					
6/29/2018		20.6						
8/6/2018		15.9						
8/30/2018	0.04							
9/24/2018		16.5						
9/26/2018			0.24				0.0055 (J)	
10/16/2018	0.031 (J)							
4/4/2019			0.22				<0.04	
9/26/2019	<0.04		0.13				0.0068 (J)	
3/25/2020	0.071 (J)		0.11					
3/26/2020							0.033 (J)	
9/23/2020							<0.04	
9/24/2020	0.017 (J)							
9/25/2020		14.1						
10/7/2020			0.018 (J)					
3/3/2021							<0.04	
3/4/2021	0.012 (J)	12.4	0.0088 (J)					
8/25/2021		10.3						
9/1/2021	0.044						<0.04	
9/3/2021			0.012 (J)	1.6				
2/10/2022	0.054	9.5				6.8	<0.04	
2/11/2022			0.019 (J)	0.44	0.84			
8/31/2022	0.052							
9/1/2022		9.9	0.067	0.83	1.2	7.2		
2/8/2023		8.2		0.7	1.2			
2/9/2023	0.076		0.028 (J)			6.9		
2/10/2023							<0.04	
8/16/2023	0.13		0.058	0.75		7.1	<0.04	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50
8/17/2023		9.5			1.9			20.1
12/20/2023								20.8
2/21/2024		7.8		0.57	1.6			
2/22/2024						6.4		22.1
2/23/2024	0.2		0.11				0.016 (J)	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							<0.0005	<0.0005	
6/7/2016						<0.0005			<0.0005
7/27/2016						<0.0005	<0.0005	<0.0005	<0.0005
7/28/2016									
9/16/2016						<0.0005		<0.0005	
9/19/2016							<0.0005		<0.0005
11/2/2016									<0.0005
11/3/2016						<0.0005	<0.0005	<0.0005	
1/11/2017						0.0001 (J)	<0.0005	0.0001 (J)	
1/13/2017									<0.0005
3/1/2017							<0.0005	<0.0005	
3/2/2017						<0.0005			
3/6/2017									<0.0005
4/26/2017							<0.0005	<0.0005	<0.0005
5/2/2017						<0.0005			
6/28/2017							<0.0005	<0.0005	
6/29/2017						<0.0005			<0.0005
3/28/2018						<0.0005	<0.0005	<0.0005	
3/29/2018									<0.0005
6/5/2018									
6/6/2018									<0.0005
6/7/2018							<0.0005		
6/11/2018						<0.0005		<0.0005	
9/25/2018						<0.0005	<0.0005	<0.0005	<0.0005
10/16/2018	0.00014 (J)								
3/5/2019						<0.0005		<0.0005	<0.0005
3/6/2019							<0.0005		
4/2/2019						<0.0005			
4/3/2019							<0.0005	<0.0005	<0.0005
9/24/2019									
9/25/2019						<0.0005			<0.0005
9/26/2019	<0.0005						<0.0005	<0.0005	
2/11/2020						<0.0005	<0.0005	<0.0005	
2/12/2020									<0.0005
3/24/2020						<0.0005	<0.0005	<0.0005	<0.0005
3/25/2020	<0.0005								
9/23/2020		<0.0005		<0.0005		<0.0005	<0.0005	<0.0005	
9/24/2020	0.00017 (J)				0.00018 (J)				<0.0005
2/9/2021	0.00013 (J)	<0.0005		<0.0005	0.00025 (J)		<0.0005	<0.0005	<0.0005
3/3/2021	<0.0005	<0.0005		<0.0005		<0.0005	<0.0005	<0.0005	<0.0005
3/4/2021					0.00018 (J)				
8/25/2021				<0.0005					
8/26/2021					0.00021 (J)			<0.0005	
8/27/2021						<0.0005	<0.0005		<0.0005
9/1/2021	0.00023 (J)	<0.0005							
2/9/2022						<0.0005	<0.0005	<0.0005	<0.0005
2/10/2022	0.00018 (J)	<0.0005	<0.0005	<0.0005	0.00022 (J)				
8/30/2022						<0.0005	<0.0005	<0.0005	
8/31/2022	0.00015 (J)								<0.0005
9/1/2022		0.00015 (J)	<0.0005	<0.0005	0.00023 (J)				
2/7/2023						<0.0005	<0.0005	<0.0005	<0.0005
2/8/2023		<0.0005		<0.0005	0.00046 (J)				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
2/9/2023	<0.0005		<0.0005						
8/15/2023						<0.0005	<0.0005	<0.0005	<0.0005
8/16/2023	0.00021 (J)		0.00048 (J)	<0.0005	0.00022 (J)				
8/17/2023		<0.0005							
2/20/2024						<0.0005	<0.0005		<0.0005
2/21/2024			0.00035 (J)						
2/22/2024		<0.0005		<0.0005	0.00022 (J)				
2/23/2024	0.00023 (J)							<0.0005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	<0.0005
7/27/2016	
7/28/2016	<0.0005
9/16/2016	
9/19/2016	<0.0005
11/2/2016	
11/3/2016	<0.0005
1/11/2017	
1/13/2017	<0.0005
3/1/2017	
3/2/2017	
3/6/2017	<0.0005
4/26/2017	<0.0005
5/2/2017	
6/28/2017	
6/29/2017	<0.0005
3/28/2018	
3/29/2018	<0.0005
6/5/2018	<0.0005
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	9.6E-05 (J)
10/16/2018	
3/5/2019	<0.0005
3/6/2019	
4/2/2019	<0.0005
4/3/2019	
9/24/2019	<0.0005
9/25/2019	
9/26/2019	
2/11/2020	
2/12/2020	<0.0005
3/24/2020	<0.0005
3/25/2020	
9/23/2020	
9/24/2020	<0.0005
2/9/2021	0.00041 (J)
3/3/2021	
3/4/2021	<0.0005
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	<0.0005
2/9/2022	<0.0005
2/10/2022	
8/30/2022	<0.0005
8/31/2022	
9/1/2022	
2/7/2023	0.00012 (J)
2/8/2023	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-21I (bg)
2/9/2023	
8/15/2023	<0.0005
8/16/2023	
8/17/2023	
2/20/2024	<0.0005
2/21/2024	
2/22/2024	
2/23/2024	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.0005	<0.0005	<0.0005				
6/7/2016						<0.0005			
7/26/2016			<0.0005	<0.0005	<0.0005				
7/28/2016						<0.0005			
8/30/2016									<0.0005
8/31/2016									
9/14/2016			<0.0005	<0.0005	<0.0005				
9/20/2016						<0.0005			
11/2/2016			<0.0005	<0.0005					
11/4/2016					<0.0005				
11/8/2016						7E-05 (J)			
11/16/2016									<0.0005
1/12/2017				<0.0005	9E-05 (J)				
1/13/2017			<0.0005						
1/16/2017						<0.0005			
2/24/2017									
2/27/2017									<0.0005
3/6/2017			<0.0005						
3/7/2017				<0.0005	<0.0005				
3/9/2017						<0.0005			
5/1/2017			<0.0005	<0.0005					
5/2/2017					<0.0005	<0.0005			
5/10/2017									0.0002 (J)
6/27/2017				<0.0005	<0.0005				
6/29/2017			<0.0005						
7/10/2017						<0.0005			
7/11/2017									0.0005 (J)
10/11/2017	<0.0005								
10/12/2017		<0.0005					0.003	0.0002 (J)	0.0006 (J)
11/20/2017	<0.0005	<0.0005					0.0027		
11/21/2017								0.0003 (J)	
1/10/2018		<0.0005							
1/11/2018	<0.0005							0.0002 (J)	
1/12/2018							0.0029		
2/19/2018		<0.0005						<0.0005	
2/20/2018	<0.0005						0.0029		
3/29/2018			<0.0005	<0.0005	<0.0005				
3/30/2018						<0.0005			
4/3/2018	<0.0005	<0.0005					0.0027	<0.0005	
4/4/2018									<0.0005
6/6/2018				<0.0005					
6/7/2018			<0.0005		<0.0005				
6/12/2018						<0.0005			
6/27/2018								0.00025 (J)	
6/28/2018	<0.0005	<0.0005					0.0029		
8/7/2018	<0.0005	<0.0005					0.0027	0.00024 (J)	
9/20/2018									0.0002 (J)
9/24/2018	<0.0005	<0.0005					0.0027	0.00021 (J)	
9/26/2018			<0.0005	<0.0005	<0.0005				
9/27/2018						<0.0005			
3/4/2019			<0.0005	<0.0005	<0.0005				
3/6/2019						<0.0005			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
4/3/2019			<0.0005	<0.0005	<0.0005				
4/4/2019						<0.0005			
8/21/2019	<0.0005	<0.0005							
8/22/2019							0.0023 (J)	0.00015 (J)	0.00017 (J)
9/24/2019				<0.0005	<0.0005				
9/25/2019			<0.0005						
9/27/2019						<0.0005			
10/9/2019	<0.0005	<0.0005					0.0021 (J)	0.00017 (J)	0.00025 (J)
2/12/2020	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005				
3/24/2020		<0.0005		<0.0005	<0.0005				
3/25/2020	<0.0005		<0.0005				0.0018 (J)	0.00018 (J)	0.00021 (J)
3/26/2020						<0.0005			
9/22/2020			<0.0005	<0.0005	<0.0005				
9/24/2020	<0.0005	<0.0005				<0.0005			0.00014 (J)
9/25/2020							0.0015 (J)	0.00014 (J)	
2/8/2021				<0.0005	<0.0005				
2/9/2021			<0.0005			<0.0005	0.0014 (J)		
2/10/2021	0.00019 (J)	<0.0005						<0.0005	<0.0005
3/2/2021				<0.0005	<0.0005				
3/3/2021			<0.0005						
3/4/2021	0.0003 (J)	<0.0005				<0.0005	0.0013	<0.0005	<0.0005
8/25/2021						<0.0005			<0.0005
8/26/2021	0.00049 (J)		<0.0005	<0.0005	<0.0005		0.0011	<0.0005	
9/3/2021		<0.0005							
9/27/2021									
2/8/2022	0.00063	<0.0005						0.00012 (J)	
2/10/2022				<0.0005	<0.0005	<0.0005	0.0011		<0.0005
2/11/2022			<0.0005						
8/30/2022				<0.0005	<0.0005				
8/31/2022	0.00044 (J)	<0.0005	<0.0005						
9/1/2022						<0.0005	0.00094	<0.0005	<0.0005
2/7/2023	0.00014 (J)			<0.0005					
2/8/2023		<0.0005				<0.0005	0.00068	<0.0005	0.00014 (J)
2/9/2023			<0.0005		<0.0005				
8/15/2023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005				
8/16/2023						<0.0005	0.00074	<0.0005	<0.0005
2/20/2024	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005				
2/21/2024						<0.0005			
2/22/2024							0.00074	<0.0005	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	<0.0005
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	<0.0005
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	<0.0005
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	<0.0005
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	<0.0005
10/11/2017	
10/12/2017	<0.0005
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	<0.0005
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	<0.0005
9/24/2018	
9/26/2018	
9/27/2018	
3/4/2019	
3/6/2019	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-43
4/3/2019	
4/4/2019	
8/21/2019	<0.0005
8/22/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	<0.0005
2/12/2020	
3/24/2020	
3/25/2020	<0.0005
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	<0.0005
2/8/2021	
2/9/2021	<0.0005
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	<0.0005
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	<0.0005
2/8/2022	<0.0005
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	<0.0005
2/7/2023	
2/8/2023	<0.0005
2/9/2023	
8/15/2023	
8/16/2023	<0.0005
2/20/2024	
2/21/2024	
2/22/2024	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/1/2007			<0.0005						
9/11/2007			<0.0005						
3/20/2008			<0.0005						
8/27/2008			<0.0005						
3/3/2009			<0.0005						
11/18/2009			<0.0005						
3/3/2010			<0.0005						
9/8/2010			<0.0005						
3/10/2011			<0.0005						
9/8/2011			<0.0005						
3/5/2012			<0.0005						
9/10/2012			<0.0005						
2/6/2013			<0.0005						
8/12/2013			<0.0005						
2/5/2014			<0.0005						
8/5/2014			<0.0005						
2/4/2015			<0.0005						
8/3/2015			<0.0005						
2/16/2016			<0.0005						
6/1/2016					<0.0005	<0.0005			
6/2/2016				<0.0005				<0.0005	<0.0005
7/25/2016						<0.0005		<0.0005	
7/26/2016				<0.0005	<0.0005				<0.0005
8/30/2016		0.0001 (J)							
8/31/2016			<0.0005						
9/1/2016	<0.0005								
9/13/2016					<0.0005	<0.0005			
9/14/2016							<0.0005		
9/15/2016				<0.0005					<0.0005
9/19/2016								<0.0005	
11/1/2016					<0.0005			<0.0005	<0.0005
11/2/2016				<0.0005					
11/4/2016						<0.0005	<0.0005		
11/14/2016		0.0001 (J)							
11/15/2016	<0.0005								
11/28/2016			<0.0005						
12/15/2016							<0.0005		
1/10/2017				<0.0005					
1/11/2017					0.0002 (J)				0.0001 (J)
1/16/2017						<0.0005	<0.0005	<0.0005	
2/21/2017								<0.0005	
2/22/2017			<0.0005						
2/24/2017		9E-05 (J)							
2/27/2017	7E-05 (J)								
3/1/2017									
3/2/2017					<0.0005	<0.0005			<0.0005
3/3/2017							<0.0005		
3/8/2017				7E-05 (J)					
4/26/2017				<0.0005				<0.0005	<0.0005
4/27/2017					<0.0005	<0.0005			
4/28/2017							<0.0005		
5/8/2017		0.0001 (J)	<0.0005						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/9/2017	<0.0005								
5/26/2017							<0.0005		
6/27/2017					<0.0005	<0.0005			
6/28/2017							<0.0005		<0.0005
6/30/2017				<0.0005				<0.0005	
7/11/2017		<0.0005							
7/13/2017	<0.0005								
7/17/2017			<0.0005						
10/10/2017		<0.0005							
10/11/2017	<0.0005								
10/16/2017			<0.0005						
2/19/2018			<0.0005						
3/27/2018				<0.0005		<0.0005		<0.0005	
3/28/2018							<0.0005		<0.0005
3/29/2018					<0.0005				
4/2/2018		<0.0005							
4/4/2018	<0.0005								
8/6/2018			<0.0005						
9/19/2018		<0.0005							
9/20/2018	<0.0005								
2/25/2019			<0.0005						
2/26/2019				<0.0005				<0.0005	
2/27/2019					<0.0005	<0.0005	<0.0005		<0.0005
3/28/2019					<0.0005	<0.0005			
3/29/2019				<0.0005			<0.0005		
4/1/2019								<0.0005	<0.0005
6/12/2019			<0.0005						
8/19/2019			<0.0005						
8/20/2019		<0.0005							
9/24/2019					<0.0005	<0.0005	<0.0005		
9/25/2019				<0.0005				<0.0005	<0.0005
9/26/2019	<0.0005								
10/8/2019		<0.0005	<0.0005						
2/10/2020					<0.0005	<0.0005			
2/11/2020							<0.0005		
2/12/2020				<0.0005				<0.0005	<0.0005
3/17/2020		<0.0005	<0.0005						
3/18/2020				<0.0005		<0.0005			
3/19/2020					<0.0005		<0.0005	<0.0005	<0.0005
3/25/2020	<0.0005								
8/26/2020			<0.0005						
8/27/2020		<0.0005							
9/22/2020			<0.0005						
9/23/2020					<0.0005	<0.0005	<0.0005		<0.0005
9/24/2020	<0.0005							<0.0005	
9/25/2020				<0.0005					
2/9/2021	<0.0005								
2/10/2021				<0.0005			<0.0005		<0.0005
2/11/2021								<0.0005	
2/12/2021					<0.0005	<0.0005			
3/1/2021								<0.0005	
3/2/2021			<0.0005	<0.0005					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
3/3/2021					<0.0005	<0.0005	<0.0005		<0.0005
3/4/2021	<0.0005								
8/19/2021		<0.0005		<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
8/20/2021			<0.0005						
8/27/2021							<0.0005		
9/1/2021	<0.0005								
2/8/2022	<0.0005	<0.0005	<0.0005						
2/9/2022					<0.0005	<0.0005	<0.0005		<0.0005
2/10/2022				<0.0005					
2/11/2022								<0.0005	
8/30/2022			<0.0005		<0.0005		<0.0005		
8/31/2022	<0.0005	<0.0005		<0.0005		<0.0005		<0.0005	<0.0005
2/7/2023			0.00012 (J)		<0.0005	<0.0005	<0.0005		
2/8/2023		0.00032 (J)		<0.0005				<0.0005	<0.0005
2/9/2023	<0.0005								
8/15/2023		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
8/16/2023	<0.0005							<0.0005	
2/20/2024		<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2/21/2024	<0.0005								
2/23/2024				<0.0005					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/1/2007	
9/11/2007	
3/20/2008	
8/27/2008	
3/3/2009	
11/18/2009	
3/3/2010	
9/8/2010	
3/10/2011	
9/8/2011	
3/5/2012	
9/10/2012	
2/6/2013	
8/12/2013	
2/5/2014	
8/5/2014	
2/4/2015	
8/3/2015	
2/16/2016	
6/1/2016	<0.0005
6/2/2016	
7/25/2016	<0.0005
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	<0.0005
9/15/2016	
9/19/2016	
11/1/2016	<0.0005
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	8E-05 (J)
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	<0.0005
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	<0.0005
4/27/2017	
4/28/2017	
5/8/2017	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	<0.0005
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	<0.0005
3/29/2018	
4/2/2018	
4/4/2018	
8/6/2018	
9/19/2018	
9/20/2018	
2/25/2019	
2/26/2019	
2/27/2019	<0.0005
3/28/2019	
3/29/2019	
4/1/2019	<0.0005
6/12/2019	
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	<0.0005
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	<0.0005
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	<0.0005
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	<0.0005
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	<0.0005
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-3I (bg)
3/3/2021	<0.0005
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	<0.0005
9/1/2021	
2/8/2022	
2/9/2022	<0.0005
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	<0.0005
2/7/2023	
2/8/2023	0.00013 (J)
2/9/2023	
8/15/2023	
8/16/2023	<0.0005
2/20/2024	<0.0005
2/21/2024	
2/23/2024	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50
6/8/2016							<0.0005	
8/1/2016							<0.0005	
9/2/2016			<0.001					
9/20/2016							<0.0005	
11/8/2016							<0.0005	
11/14/2016			9E-05 (J)					
1/17/2017							<0.0005	
2/28/2017			0.0001 (J)					
3/8/2017							<0.0005	
5/2/2017							<0.0005	
5/9/2017			0.0002 (J)					
7/7/2017							<0.0005	
7/13/2017			0.0002 (J)					
9/22/2017			0.0002 (J)					
9/29/2017			0.0002 (J)					
10/6/2017			0.0002 (J)					
10/12/2017		0.0002 (J)						
11/21/2017		0.0002 (J)						
1/11/2018		0.0004 (J)						
2/20/2018		<0.001						
3/30/2018			<0.001				<0.0005	
4/3/2018		<0.001						
6/12/2018							<0.0005	
6/13/2018			0.00019 (J)					
6/29/2018		0.00099 (J)						
8/6/2018		0.00063 (J)						
9/24/2018		0.00069 (J)						
9/26/2018			0.00018 (J)				<0.0005	
10/16/2018	<0.0005							
3/5/2019							<0.0005	
3/6/2019			0.00015 (J)					
4/4/2019			0.00019 (J)				<0.0005	
9/26/2019	<0.0005		0.00017 (J)				<0.0005	
3/25/2020	0.00016 (J)		0.00019 (J)					
3/26/2020							<0.0005	
9/23/2020							<0.0005	
9/24/2020	<0.0005							
9/25/2020		0.00039 (J)						
10/7/2020			0.00012 (J)					
2/9/2021		0.00042 (J)					<0.0005	
2/10/2021	<0.0005		<0.0005					
3/3/2021							<0.0005	
3/4/2021	<0.0005	0.00028 (J)	<0.0005					
8/25/2021		0.00094						
9/1/2021	<0.0005						<0.0005	
9/3/2021			<0.0005	<0.0005				
2/10/2022	<0.0005	0.00093				0.0019	<0.0005	
2/11/2022			<0.0005	<0.0005	<0.0005			
8/31/2022	0.00011 (J)							
9/1/2022		0.0009	<0.0005	<0.0005	<0.0005	0.0017		
2/8/2023		0.00076		<0.0005	<0.0005			
2/9/2023	0.00025 (J)		<0.0005			0.0018		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50
2/10/2023							<0.0005	
8/16/2023	0.0002 (J)		<0.0005	<0.0005		0.0017	<0.0005	
8/17/2023		0.00085			<0.0005			0.018
12/20/2023								0.012
2/21/2024		0.00086		<0.0005	<0.0005			
2/22/2024						0.0017		0.011
2/23/2024	0.00027 (J)		<0.0005				<0.0005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							6.2	1.4	
6/7/2016						2.2			2.3
7/27/2016						2	4.73	1.19	2.08
7/28/2016									
9/16/2016						1.97		1.5	
9/19/2016							4.76		1.97
11/2/2016									2.13
11/3/2016						1.99	5.25	1.31	
1/11/2017						2.28	4.74	1.25	
1/13/2017									2.45
3/1/2017							5.37	1.26	
3/2/2017						2.15			
3/6/2017									2.48
4/26/2017							4.28	1.05	2.3
5/2/2017						1.95			
6/28/2017							4.95	1.06	
6/29/2017						2.02			2.54
10/3/2017									
10/4/2017						2.03		1.1	2.25
10/5/2017							5.28		
6/5/2018									
6/6/2018									2.3
6/7/2018							4.8		
6/11/2018						2.1		1.4	
9/25/2018						2.1	4.6	1	2.3
10/16/2018	14.5 (J)								
4/2/2019						2.5			
4/3/2019							5.3	1.2	2.9
9/24/2019									
9/25/2019						2.6			2.4
9/26/2019	9.3						4.9	1.1	
3/24/2020						2.7	5.3	1	2.6
3/25/2020	4.5								
9/23/2020		1.7		10.5		2.6	5.2	0.91 (J)	
9/24/2020	4.8				61.3				2.6
3/3/2021	6.9	1.5		20.6		2.5	5.2	0.96 (J)	2.4
3/4/2021					53.8				
8/25/2021				11					
8/26/2021					45			0.98 (J)	
8/27/2021						2.7	5.1		2.4
9/1/2021	16.8	1.4							
9/3/2021			42.5						
2/9/2022						2.8	5.1	0.87 (J)	2.3
2/10/2022	21.5	1.3	29.4	11.6	40.8				
8/30/2022						3	5.7	0.77 (J)	
8/31/2022	27								2.4
9/1/2022		1.4	34.4	11.1	43.7				
2/7/2023						2.9	5.5	0.79 (J)	2.4
2/8/2023		1.2		12	52.3				
2/9/2023	31.7		33						
8/15/2023						2.9	5.1	0.8 (J)	2.2
8/16/2023	28.7		21.4	11.9	51				

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
8/17/2023		1.4							
2/20/2024						3.2	5.6		2.5
2/21/2024			39.7						
2/22/2024		1.2		14.4	52.7				
2/23/2024	46.3							0.84 (J)	

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	3.7
7/27/2016	
7/28/2016	3.15
9/16/2016	
9/19/2016	3.17
11/2/2016	
11/3/2016	3.4
1/11/2017	
1/13/2017	4.98
3/1/2017	
3/2/2017	
3/6/2017	6.28
4/26/2017	6.65
5/2/2017	
6/28/2017	
6/29/2017	6.04
10/3/2017	8.28
10/4/2017	
10/5/2017	
6/5/2018	9.1
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	10.4 (J)
10/16/2018	
4/2/2019	8.8
4/3/2019	
9/24/2019	7.7
9/25/2019	
9/26/2019	
3/24/2020	6
3/25/2020	
9/23/2020	
9/24/2020	7.8
3/3/2021	
3/4/2021	8.7
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	9.5
9/3/2021	
2/9/2022	9.8
2/10/2022	
8/30/2022	7.3
8/31/2022	
9/1/2022	
2/7/2023	7.5
2/8/2023	
2/9/2023	
8/15/2023	6.1
8/16/2023	

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-21I (bg)
8/17/2023	
2/20/2024	7
2/21/2024	
2/22/2024	
2/23/2024	

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			8.8	33	2.4				
6/7/2016						9.6			
7/26/2016			7.69	32.3	2.12				
7/28/2016						7.87			
8/30/2016									133
8/31/2016									
9/14/2016			8.49	31	2.18				
9/20/2016						9.28			
11/2/2016			7.83	30.9					
11/4/2016					2.17 (J)				
11/8/2016						8.6			
11/16/2016									125
1/12/2017				35.7	2.37				
1/13/2017			8.08						
1/16/2017						8.85			
2/24/2017									
2/27/2017									139
3/6/2017			8.64						
3/7/2017				32.7	2.34				
3/9/2017						8.4			
5/1/2017			13.4	37					
5/2/2017					2.17	12.9			
5/10/2017									130
6/27/2017				36.5	2.13				
6/29/2017			8.81						
7/10/2017						8.09			
7/11/2017									172
10/3/2017				30.9	2.15				
10/5/2017			9.29						
10/11/2017	2.74					6.36			
10/12/2017		2.9					190	44.5	144
11/20/2017	1.81	10.4					184		
11/21/2017								44.4	
1/10/2018		10.2							
1/11/2018	1.54							43.9	
1/12/2018							178		
2/19/2018		<25						45.3	
2/20/2018	1.71						184		
4/3/2018	1.4	6.3					174	42.7	
4/4/2018									137
6/6/2018				26.2					
6/7/2018			8.2		2.3				
6/12/2018						4.7			
6/27/2018								42.2	
6/28/2018	1.4	6.7					190		
8/7/2018	1.2	6.3					176	40.7	
9/20/2018									108
9/24/2018	1.1	5.7					172	38.5	
9/26/2018			9.5 (J)	25.8	2.3				
9/27/2018						4.1			
3/26/2019		5.6							
3/27/2019	1.5						155		109

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
3/28/2019								26	
4/3/2019			8.4	24.7 (J)	2.8				
4/4/2019						3.7			
9/24/2019				25.8	2.5				
9/25/2019			9.5						
9/27/2019						3.7			
10/9/2019	2.4	4.9					133	27.6	92
3/24/2020		4.8		26.1	2.5				
3/25/2020	2.7		10.5				124	29.6	107
3/26/2020						5.6			
9/22/2020			9.6	27.2	2.6				
9/24/2020	3.7	4.4				7.9			84.3
9/25/2020							93.7	20.5	
3/2/2021				1.6	2.6				
3/3/2021			7.7						
3/4/2021	8.2	4.6				10.2	87	16.4	90.7
8/25/2021						10.6			79.9
8/26/2021	14.1		7.6	25.2	2.5		73.6	12.8	
9/3/2021		5.6							
9/27/2021									
2/8/2022	15.2	6						15	
2/10/2022				24.8	2.5	11.8	68.9		74.4
2/11/2022			7.5						
8/30/2022				24.8	2.5				
8/31/2022	16.3	6.2	8.9						
9/1/2022						11.2	59.4	12.9	68.5
2/7/2023	16.1			26.6					
2/8/2023		5.9				10.9	55.3	14.4	74.6
2/9/2023			9.6		2.8				
8/15/2023	17.2	5.3	7.8	25	2.6				
8/16/2023						11.2	50.9	13.5	69.2
2/20/2024	16.9	5.6	9.9	27.2	2.7				
2/21/2024						11.1			
2/22/2024							49.7	14.4	73.5

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	3.4
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	3.79
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	6.42
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	7.9
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	6.71
10/3/2017	
10/5/2017	
10/11/2017	
10/12/2017	7.05
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
4/3/2018	
4/4/2018	8.6
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	15.9 (J)
9/24/2018	
9/26/2018	
9/27/2018	
3/26/2019	
3/27/2019	

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-43
3/28/2019	8.9
4/3/2019	
4/4/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	18.2
3/24/2020	
3/25/2020	12.1
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	19.8
3/2/2021	
3/3/2021	
3/4/2021	32.2
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	4.1
2/8/2022	9.9
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	10.7
2/7/2023	
2/8/2023	11
2/9/2023	
8/15/2023	
8/16/2023	10.7
2/20/2024	
2/21/2024	
2/22/2024	10.5

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/1/2016					12	2.5			
6/2/2016				1.3				1.3	28
7/25/2016						2.16		1.17	
7/26/2016				1.24	11				24.5
8/30/2016		20.9							
8/31/2016			9.31						
9/1/2016	13.9								
9/13/2016					11.8	2.21			
9/14/2016							23.5		
9/15/2016				1.17					27
9/19/2016								1.05	
11/1/2016					11			1.14	25.6
11/2/2016				1.23					
11/4/2016						2.67	23.7		
11/14/2016		18.6							
11/15/2016	13.5								
11/28/2016			9.47 (B)						
12/15/2016							23.1		
1/10/2017				1.24					
1/11/2017					11.2				27.5
1/16/2017						2.45	23.3	1.23	
2/21/2017								1.25	
2/22/2017			10.4						
2/24/2017		16.1							
2/27/2017	12.5								
3/1/2017									
3/2/2017					11	2.57			27.5
3/3/2017							25.1		
3/8/2017				1.21					
4/26/2017				1.14				1.03	30.4
4/27/2017					11.1	2.38			
4/28/2017							30.7		
5/8/2017		14.6	14.2						
5/9/2017	14.4								
5/26/2017							26.2		
6/27/2017					13.8	2.36			
6/28/2017							26.1		29.8
6/30/2017				1.24				1.13	
7/11/2017		14.3							
7/13/2017	14.1								
7/17/2017			14.1						
10/3/2017					14	2.21	26.7		
10/4/2017								1.09	29.7
10/5/2017				1.11					
10/10/2017		12.1							
10/11/2017	12.4								
10/16/2017			13.6						
2/19/2018			<25						
4/2/2018		<25							
4/4/2018	<25								
6/5/2018					15.2 (J)				
6/6/2018						2.3			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/7/2018							25		29.1
6/8/2018				1.1					
6/11/2018								1.1	
8/6/2018			11.4 (J)						
9/19/2018		11.1 (J)							
9/20/2018	12 (J)								
10/1/2018				0.99	15.1	1.8	25		26.9
10/2/2018								1.1	
2/25/2019			12.7 (J)						
3/27/2019		10.8 (J)							
3/28/2019	11.3 (J)				13.3 (J)	2.2			
3/29/2019				1.1			23.5 (J)		
4/1/2019								1.3	30.1
6/12/2019			18.9						
9/24/2019					15.8	2.3	26.4		
9/25/2019				1.1				1.1	29.5
9/26/2019	12.1								
10/8/2019		9.7	28.3						
3/17/2020		14.8	24.3						
3/18/2020				1.1		2.1			
3/19/2020					15		27.4	1.2	31.5
3/25/2020	13.2								
9/22/2020		10.1	31						
9/23/2020					14.1	1.8	26.3		28.6
9/24/2020	12							1.1	
9/25/2020				1.3					
3/1/2021		10.3						1.2	
3/2/2021			34.2	1.2					
3/3/2021					14.1	1.8	25.6		29.8
3/4/2021	13								
8/19/2021		9.6		1.2	14.2	2		1.2	28.1
8/20/2021			26.5						
8/27/2021							22.6		
9/1/2021	12.1								
2/8/2022	12.7	9.4	25.6						
2/9/2022					14.9	2.1	23.4		30.3
2/10/2022				1.3					
2/11/2022								1.5	
8/30/2022			23.5		14.9		25.4		
8/31/2022	11.6	9.6		1.3		1.9		1.3	28.7
2/7/2023			22.3		15	2.2	25.6		
2/8/2023		9.2		1.5				1.3	28.9
2/9/2023	11.8								
8/15/2023		9.6	20.3	1.3	13.5	1.8	23.2		27.4
8/16/2023	11.1							1.4	
2/20/2024		10.3	22.8		15.3	2.2	28.2	1.3	30.7
2/21/2024	11.1								
2/23/2024				1.6					

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/1/2016	21
6/2/2016	
7/25/2016	20.3
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	19.7
9/15/2016	
9/19/2016	
11/1/2016	18.4
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	20.3
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	18.6
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	25.6
4/27/2017	
4/28/2017	
5/8/2017	
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	23.9
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/3/2017	
10/4/2017	22.1
10/5/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
4/2/2018	
4/4/2018	
6/5/2018	
6/6/2018	

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/7/2018	
6/8/2018	21.9 (J)
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	19.7
10/2/2018	
2/25/2019	
3/27/2019	
3/28/2019	
3/29/2019	
4/1/2019	20.4 (J)
6/12/2019	
9/24/2019	
9/25/2019	22.4
9/26/2019	
10/8/2019	
3/17/2020	
3/18/2020	
3/19/2020	21.9
3/25/2020	
9/22/2020	
9/23/2020	23.6
9/24/2020	
9/25/2020	
3/1/2021	
3/2/2021	
3/3/2021	20.6
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	24.7
9/1/2021	
2/8/2022	
2/9/2022	23.7
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	23.5
2/7/2023	
2/8/2023	23.3
2/9/2023	
8/15/2023	
8/16/2023	24.9
2/20/2024	23.7
2/21/2024	
2/23/2024	

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50
6/8/2016							1.9	
8/1/2016							1.83	
9/2/2016			11.2					
9/20/2016							1.78	
11/8/2016							1.77	
11/14/2016			7.79					
1/17/2017							1.7	
2/28/2017			8.37					
3/8/2017							1.77	
5/2/2017							1.57	
5/9/2017			13.9					
7/7/2017							1.8	
7/13/2017			16.6					
9/22/2017			18.4					
9/29/2017			16.1					
10/5/2017							1.7	
10/6/2017			16.6					
10/11/2017			18.1					
10/12/2017		122						
11/21/2017		118						
1/11/2018		119						
2/20/2018		124						
4/3/2018		114						
6/12/2018							1.8	
6/13/2018			18.7 (J)					
6/29/2018		129						
8/6/2018		114						
9/24/2018		115						
9/26/2018			19.8 (J)				1.7	
10/16/2018	6.5							
4/4/2019			16.9 (J)				1.9	
9/26/2019	4.7		11.7				1.7	
3/25/2020	7.9		10.6					
3/26/2020							1.7	
9/23/2020							2.4	
9/24/2020	3.6							
9/25/2020		108						
10/7/2020			9.9					
3/3/2021							2.4	
3/4/2021	4.4	118	5.6					
8/25/2021		106						
9/1/2021	7.9						2.3	
9/3/2021			4.1	64				
2/10/2022	8.8	106				54.7	2.2	
2/11/2022			4.6	49	27.3			
8/31/2022	11.8							
9/1/2022		99.9	6.3	67.9	22.8	52.5		
2/8/2023		95.9		55.2	22.9			
2/9/2023	14.5		9.2			54.3		
2/10/2023							2.4	
8/16/2023	21.5		20	67.5		52	2.2	
8/17/2023		101			22.1			229

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50
12/20/2023								272
2/21/2024		103		65.9	24.5			
2/22/2024						54.8		267
2/23/2024	31.1		33.6				2.6	

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							6.8	6.4	
6/7/2016						4.5			1.9
7/27/2016						4.5	6.7	6.2	1.9
7/28/2016									
9/16/2016						4.5		6.1	
9/19/2016							7		1.9
11/2/2016									2.6
11/3/2016						5.4	7.5	7.4	
1/11/2017						4.7	6.5	6.1	
1/13/2017									2.3
3/1/2017							6.9	6	
3/2/2017						4.8			
3/6/2017									1.9
4/26/2017							7	6.5	2
5/2/2017						4.6			
6/28/2017							7	6.4	
6/29/2017						4.5			2.6
10/3/2017									
10/4/2017						4.7		6.8	2.6
10/5/2017							7		
6/5/2018									
6/6/2018									2.7
6/7/2018							6.8		
6/11/2018						4.9		6.8	
9/25/2018						5.6	7.9	7.8	3.6
10/16/2018	12.1								
4/2/2019						4.8			
4/3/2019							6.9	6.3	3.1
9/24/2019									
9/25/2019						5.7			2.8
9/26/2019	6.4						7	7.1	
3/24/2020						5	7	6.8	2.7
3/25/2020	7.7								
9/23/2020		2.7		1.8		6.6	7.2	7.2	
9/24/2020	6.6				3.7				2.7
3/3/2021	6.1	2.5		22.9		7.1	7	7.2	2.7
3/4/2021					3.7				
8/25/2021				1.5					
8/26/2021					3.9			7.3	
8/27/2021						8.5	7.4		2.8
9/1/2021	5.7	2.6							
2/9/2022						10.9	7.5	7	2.8
2/10/2022	5.3	2.5	3.2	1.4	3.9				
8/30/2022						12	7.9	7	
8/31/2022	5.3								2.9
9/1/2022		2.4	10.2	1.4	3.6				
2/7/2023						11.4	7.4	6.4	2.9
2/8/2023		2.5		1.5	3.8				
2/9/2023	5.4		9.6						
8/15/2023						11.6	7.3	6.7	2.8
8/16/2023	4.9		2.2	1.4	3.6				
8/17/2023		2.7							

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
2/20/2024						12.2	7.6		2.9
2/21/2024			3.5						
2/22/2024		2.3		1.5	3.7				
2/23/2024	5.2							6.6	

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	2.8
7/27/2016	
7/28/2016	2.6
9/16/2016	
9/19/2016	2.4
11/2/2016	
11/3/2016	2.9
1/11/2017	
1/13/2017	2.5
3/1/2017	
3/2/2017	
3/6/2017	2.1
4/26/2017	2.1
5/2/2017	
6/28/2017	
6/29/2017	2.8
10/3/2017	2.2
10/4/2017	
10/5/2017	
6/5/2018	1.7
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	2.2
10/16/2018	
4/2/2019	2.5
4/3/2019	
9/24/2019	3.1
9/25/2019	
9/26/2019	
3/24/2020	2.8
3/25/2020	
9/23/2020	
9/24/2020	2
3/3/2021	
3/4/2021	1.8
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	1.8
2/9/2022	1.7
2/10/2022	
8/30/2022	2.4
8/31/2022	
9/1/2022	
2/7/2023	2.4
2/8/2023	
2/9/2023	
8/15/2023	2.3
8/16/2023	
8/17/2023	

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-21I (bg)
2/20/2024	2.3
2/21/2024	
2/22/2024	
2/23/2024	

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			3.7	7.2	4.3				
6/7/2016						2.9			
7/26/2016			3.6	6.6	4.4				
7/28/2016						3.5			
8/30/2016									4.4
8/31/2016									
9/14/2016			3.4	6.6	3.8				
9/20/2016						2.4			
11/2/2016			4.5	7.6					
11/4/2016					4.8				
11/8/2016						2.8			
11/16/2016									4.7
1/12/2017				6.8	3.8				
1/13/2017			4.2						
1/16/2017						1.8			
2/24/2017									
2/27/2017									4.7
3/6/2017			3.6						
3/7/2017				6.8	4.5				
3/9/2017						1.7			
5/1/2017			4.3	7.2					
5/2/2017					4.6	1.8			
5/10/2017									4.4
6/27/2017				7	4.3				
6/29/2017			4.2						
7/10/2017						1.9			
7/11/2017									4.7
10/3/2017				6.5	4.2				
10/5/2017			4.7						
10/11/2017	2.4					2.4			
10/12/2017		3.8					6	3.1	4.3
11/20/2017	1.8	4.4					6.9		
11/21/2017								4.2	
1/10/2018		4.6							
1/11/2018	1.6							3.8	
1/12/2018							6.6		
2/19/2018		4.6						3.5	
2/20/2018	2						6.2		
4/3/2018	3.3	5.9					6.9	4.4	
4/4/2018									3.7
6/6/2018				4.7					
6/7/2018			4.4		4.5				
6/12/2018						1.8			
6/27/2018								3.6	
6/28/2018	2.1	5					6.4		
8/7/2018	1.2	4.3					5.5	3.3	
9/20/2018									3.8
9/24/2018	1.3	4.9					5.9	3.3	
9/26/2018			4.8	4.8	5.1				
9/27/2018						2			
3/26/2019		4.4							
3/27/2019	1.4						6.2		3.9

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
3/28/2019								3.2	
4/3/2019			4.3	4	4.2				
4/4/2019						1.7			
9/24/2019				3.7	4.5				
9/25/2019			4.5						
9/27/2019						1.7			
10/9/2019	2.1	5.1					5	3.3	4.1
3/24/2020		4.7		3.5	4.3				
3/25/2020	1.9		3.9				4	2.7	3.2
3/26/2020						1.6			
9/22/2020			4.5	3.6	4.2				
9/24/2020	2.7	5				2			3.3
9/25/2020							4	3	
3/2/2021				3.2	4.3				
3/3/2021			4.1						
3/4/2021	4.9	4.9				1.8	3.9	3.4	2.7
8/25/2021						2.5			3.4
8/26/2021	7.2		4.4	3.4	4.3		4.1	3.6	
9/3/2021		5.5							
9/27/2021									
2/8/2022	7.4	6.2						3.5	
2/10/2022				3.2	4.4	1.9	4		3.3
2/11/2022			4.1						
8/30/2022				3.5	4.4				
8/31/2022	6.7	6.3	4.4						
9/1/2022						2	4.2	3.8	3.3
2/7/2023	5.6			3.3					
2/8/2023		6.9				2	3.9	4	3.4
2/9/2023			4.5		5				
8/15/2023	4.5	5.6	4.4	3.1	4.1				
8/16/2023						2.7	3.7	3.7	2.8
2/20/2024	4.6	5.7	4.6	3.2	4.8				
2/21/2024						2.4			
2/22/2024							3.7	3.9	3.3

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	1.5
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	1.7
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	1.5
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	1.2
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	1.5
10/3/2017	
10/5/2017	
10/11/2017	
10/12/2017	1.6
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
4/3/2018	
4/4/2018	1.8
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	1.9
9/24/2018	
9/26/2018	
9/27/2018	
3/26/2019	
3/27/2019	

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-43
3/28/2019	1.8
4/3/2019	
4/4/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	2.3
3/24/2020	
3/25/2020	1.8
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	2.3
3/2/2021	
3/3/2021	
3/4/2021	2.1
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	1.1
2/8/2022	2.1
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	2.1
2/7/2023	
2/8/2023	2.4
2/9/2023	
8/15/2023	
8/16/2023	2.3
2/20/2024	
2/21/2024	
2/22/2024	2.3

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/1/2016					1.3	1.6			
6/2/2016				4.1				1.9	1.4
7/25/2016						1.4		1.7	
7/26/2016				4	1.2				1.6
8/30/2016		5.2							
8/31/2016			4						
9/1/2016	5.3								
9/13/2016					1.1	1.3			
9/14/2016							1.1		
9/15/2016				4.2					1.5
9/19/2016								1.6	
11/1/2016					1.3			1.8	1.7
11/2/2016				4.9					
11/4/2016						1.6	1.4		
11/14/2016		6.4							
11/15/2016	5.8								
11/28/2016			4.2						
12/15/2016							2.9		
1/10/2017				4.1					
1/11/2017					1.1				1.2
1/16/2017						1.4	0.98	1.7	
2/21/2017								1.7	
2/22/2017			3.7						
2/24/2017		5.5							
2/27/2017	4.6								
3/1/2017									
3/2/2017					1	1.3			1.2
3/3/2017							1.1		
3/8/2017				4.2					
4/26/2017				4.1				1.7	1.2
4/27/2017					1	1.3			
4/28/2017							0.91		
5/8/2017		5.8	4.2						
5/9/2017	5.3								
5/26/2017							0.93		
6/27/2017					1.1	1.4			
6/28/2017							1		1.3
6/30/2017				3.7				1.8	
7/11/2017		5.8							
7/13/2017	4.7								
7/17/2017			3.8						
10/3/2017					1.1	1.7	1.2		
10/4/2017								1.8	1.5
10/5/2017				3.8					
10/10/2017		5.9							
10/11/2017	5.8								
10/16/2017			4.2						
2/19/2018			4.3						
4/2/2018		4.8							
4/4/2018	4.3								
6/5/2018					1.1				
6/6/2018						1.4			

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/7/2018							1		1.2
6/8/2018				3.4					
6/11/2018								2	
8/6/2018			3.8						
9/19/2018		4							
9/20/2018	4.8								
10/1/2018				3.8	1.1	1.4	1.1		1.5
10/2/2018								1.8	
2/25/2019			4.1						
3/27/2019		4.3							
3/28/2019	4.4				1.4	1.5			
3/29/2019				4.2			1.2		
4/1/2019								1.7	1.2
6/12/2019			4.7						
9/24/2019					1.1	1.3	0.95 (J)		
9/25/2019				4.8				1.6	1.1
9/26/2019	5								
10/8/2019		4.4	5.1						
3/17/2020		4.1	4.8						
3/18/2020				5.2		1.4			
3/19/2020					1.1		0.97 (J)	1.8	1.2
3/25/2020	4.1								
9/22/2020		4.2	4.2						
9/23/2020					0.99 (J)	1.2	0.88 (J)		1.1
9/24/2020	4.6							1.5	
9/25/2020				5.3					
3/1/2021		3.7						1.6	
3/2/2021			4.1	4.9					
3/3/2021					0.96 (J)	1.2	0.86 (J)		1.1
3/4/2021	4.1								
8/19/2021		3.5		5	1.1	1.3		1.6	1.1
8/20/2021			5.2						
8/27/2021							0.99 (J)		
9/1/2021	4.4								
2/8/2022	4.2	3.2	5.7						
2/9/2022					1	1.3	1 (J)		1.1
2/10/2022				4.7					
2/11/2022								2.1	
8/30/2022			6.3		1.3		1.2		
8/31/2022	4.3	3.5		4.6		1.5		1.8	1.3
2/7/2023			6.1		1.3	1.5	1.1		
2/8/2023		3.5		4.9				1.6	1.2
2/9/2023	4.4								
8/15/2023		3.5	5.6	4.1	1.1	1.4	0.93 (J)		1.1
8/16/2023	3.8							1.5	
2/20/2024		3.2	6.1		1	1.2	0.96 (J)	1.4	1.1
2/21/2024	4								
2/23/2024				4.8					

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/1/2016	1.3
6/2/2016	
7/25/2016	1.3
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	1.3
9/15/2016	
9/19/2016	
11/1/2016	1.4
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	1.1
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	1.1
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	1.1
4/27/2017	
4/28/2017	
5/8/2017	
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	1.2
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/3/2017	
10/4/2017	1.2
10/5/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
4/2/2018	
4/4/2018	
6/5/2018	
6/6/2018	

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/7/2018	
6/8/2018	1.2
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	1.2
10/2/2018	
2/25/2019	
3/27/2019	
3/28/2019	
3/29/2019	
4/1/2019	1.1
6/12/2019	
9/24/2019	
9/25/2019	1.1
9/26/2019	
10/8/2019	
3/17/2020	
3/18/2020	
3/19/2020	1.1
3/25/2020	
9/22/2020	
9/23/2020	1
9/24/2020	
9/25/2020	
3/1/2021	
3/2/2021	
3/3/2021	0.99 (J)
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	1.1
9/1/2021	
2/8/2022	
2/9/2022	1.1
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	1.3
2/7/2023	
2/8/2023	1.1
2/9/2023	
8/15/2023	
8/16/2023	1.1
2/20/2024	1.1
2/21/2024	
2/23/2024	

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50
6/8/2016							5.9	
8/1/2016							5.3	
9/2/2016			6.3					
9/20/2016							5.5	
11/8/2016							6.4	
11/14/2016			6.7					
1/17/2017							5.5	
2/28/2017			5.4					
3/8/2017							5.4	
5/2/2017							5.7	
5/9/2017			5.7					
7/7/2017							5.7	
7/13/2017			5.4					
9/22/2017			6.9					
9/29/2017			5.5					
10/5/2017							6	
10/6/2017			5.5					
10/11/2017			6.4					
10/12/2017		5.4						
11/21/2017		6.5						
1/11/2018		5						
2/20/2018		5.2						
4/3/2018		4.8						
6/12/2018							6.2	
6/13/2018			5.6					
6/29/2018		5.7						
8/6/2018		4.8						
9/24/2018		4.9						
9/26/2018			6				6.9	
10/16/2018	8.5							
4/4/2019			5.4				5.9	
9/26/2019	7.5		7.1				6.5	
3/25/2020	6.8		6.3					
3/26/2020							5.4	
9/23/2020							9.3	
9/24/2020	7.5							
9/25/2020		4.3						
10/7/2020			8.7					
3/3/2021							8.6	
3/4/2021	6.7	3.9	6.6					
8/25/2021		7						
9/1/2021	6.3						8.9	
9/3/2021			7	7.1				
2/10/2022	5.6	4.2				4.2	8.7	
2/11/2022			6.6	12.5	6.7			
8/31/2022	5.5							
9/1/2022		4.2	6.2	45.6	3.7	4		
2/8/2023		3.8		33.5	2			
2/9/2023	5.4		5.9			4.7		
2/10/2023							9.1	
8/16/2023	4.9		4.9	14.8		4.1	8.1	
8/17/2023		4.1			1.8			9.4

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50
12/20/2023								9.8
2/21/2024		4.5		18.9	1.6			
2/22/2024						4.3		9.8
2/23/2024	4.8		4.8				8.3	

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							0.0012 (J)	<0.005	
6/7/2016						<0.005			<0.005
7/27/2016						0.0008 (J)	0.0007 (J)	0.0006 (J)	0.0005 (J)
7/28/2016									
9/16/2016						<0.005		<0.005	
9/19/2016							<0.005		<0.005
11/2/2016									<0.005
11/3/2016						<0.005	<0.005	<0.005	
1/11/2017						<0.005	<0.005	<0.005	
1/13/2017									<0.005
3/1/2017							0.0012 (J)	<0.005	
3/2/2017						0.001 (J)			
3/6/2017									<0.005
4/26/2017							0.0005 (J)	0.0003 (J)	0.0007 (J)
5/2/2017						0.0007 (J)			
6/28/2017							0.0006 (J)	<0.005	
6/29/2017						0.0006 (J)			0.0005 (J)
3/28/2018						<0.005	<0.005	<0.005	
3/29/2018									<0.005
3/5/2019						<0.005		<0.005	<0.005
3/6/2019							<0.005		
2/11/2020						0.00087 (J)	0.001 (J)	0.00088 (J)	
2/12/2020									0.00045 (J)
3/24/2020						0.00087 (J)	0.00095 (J)	0.0011 (J)	0.00077 (J)
3/25/2020	0.00058 (J)								
9/23/2020		0.00071 (J)		<0.005		0.00098 (J)	0.00092 (J)	0.0012 (J)	
9/24/2020	0.00074 (J)				<0.005				0.00076 (J)
2/9/2021	0.001 (J)	0.0011 (J)		0.00057 (J)	<0.005		0.00083 (J)	0.0013 (J)	0.00056 (J)
3/3/2021	0.00076 (J)	0.0012 (J)		<0.005		0.00082 (J)	0.00087 (J)	0.001 (J)	<0.005
3/4/2021					<0.005				
8/25/2021				<0.005					
8/26/2021					<0.005			<0.005	
8/27/2021						<0.005	<0.005		<0.005
9/1/2021	<0.005	0.003 (J)							
2/9/2022						<0.005	<0.005	0.0014 (J)	<0.005
2/10/2022	0.0013 (J)	<0.005	0.0011 (J)	<0.005	0.0016 (J)				
8/30/2022						<0.005	<0.005	0.0015 (J)	
8/31/2022	<0.005								<0.005
9/1/2022		<0.005	<0.005	<0.005	<0.005				
2/7/2023						<0.005	<0.005	0.0016 (J)	<0.005
2/8/2023		<0.005		<0.005	<0.005				
2/9/2023	<0.005		<0.005						
8/15/2023						<0.005	<0.005	0.0013 (J)	<0.005
8/16/2023	<0.005		<0.005	<0.005	<0.005				
8/17/2023		<0.005							
2/20/2024						<0.005	<0.005		<0.005
2/21/2024			<0.005						
2/22/2024		<0.005		<0.005	<0.005				
2/23/2024	<0.005							<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	<0.005
7/27/2016	
7/28/2016	<0.005
9/16/2016	
9/19/2016	<0.005
11/2/2016	
11/3/2016	<0.005
1/11/2017	
1/13/2017	<0.005
3/1/2017	
3/2/2017	
3/6/2017	<0.005
4/26/2017	<0.005
5/2/2017	
6/28/2017	
6/29/2017	<0.005
3/28/2018	
3/29/2018	<0.005
3/5/2019	<0.005
3/6/2019	
2/11/2020	
2/12/2020	<0.005
3/24/2020	<0.005
3/25/2020	
9/23/2020	
9/24/2020	<0.005
2/9/2021	<0.005
3/3/2021	
3/4/2021	<0.005
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	<0.005
2/9/2022	<0.005
2/10/2022	
8/30/2022	<0.005
8/31/2022	
9/1/2022	
2/7/2023	<0.005
2/8/2023	
2/9/2023	
8/15/2023	<0.005
8/16/2023	
8/17/2023	
2/20/2024	<0.005
2/21/2024	
2/22/2024	
2/23/2024	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.005	<0.005	<0.005				
6/7/2016						<0.005			
7/26/2016			<0.005	<0.005	<0.005				
7/28/2016						0.0008 (J)			
8/30/2016									<0.005
8/31/2016									
9/14/2016			<0.005	<0.005	<0.005				
9/20/2016						<0.005			
11/2/2016			<0.005	<0.005					
11/4/2016					<0.005				
11/8/2016						<0.005			
11/16/2016									<0.005
1/12/2017				<0.005	<0.005				
1/13/2017			<0.005						
1/16/2017						<0.005			
2/24/2017									
2/27/2017									<0.005
3/6/2017			<0.005						
3/7/2017				<0.005	<0.005				
3/9/2017						<0.005			
5/1/2017			<0.005	0.0004 (J)					
5/2/2017					<0.005	0.0007 (J)			
5/10/2017									0.0006 (J)
6/27/2017				<0.005	<0.005				
6/29/2017			<0.005						
7/10/2017						<0.005			
7/11/2017									<0.005
10/11/2017	<0.005								
10/12/2017		<0.005					0.0005 (J)	<0.005	<0.005
11/20/2017	<0.005	<0.005					<0.005		
11/21/2017								<0.005	
1/10/2018		<0.005							
1/11/2018	<0.005							<0.005	
1/12/2018							<0.005		
2/19/2018		<0.005						<0.005	
2/20/2018	<0.005						<0.005		
3/29/2018			<0.005	<0.005	<0.005				
3/30/2018						<0.005			
4/3/2018	<0.005	<0.005					<0.005	<0.005	
4/4/2018									<0.005
6/27/2018								<0.005	
6/28/2018	<0.005	<0.005					<0.005		
8/7/2018	<0.005	<0.005					<0.005	<0.005	
9/20/2018									<0.005
9/24/2018	<0.005	<0.005					<0.005	<0.005	
3/4/2019			<0.005	<0.005	<0.005				
3/6/2019						<0.005			
8/21/2019	<0.005	0.00053 (J)							
8/22/2019							<0.005	<0.005	<0.005
10/9/2019	<0.005	0.0012 (J)					<0.005	<0.005	0.00043 (J)
2/12/2020	<0.005	0.00065 (J)	<0.005	<0.005	0.00043 (J)				
3/24/2020		0.00055 (J)		<0.005	0.0014 (J)				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
3/25/2020	<0.005		0.00058 (J)				0.00065 (J)	0.00039 (J)	0.0013 (J)
3/26/2020						0.0019 (J)			
9/22/2020			<0.005	0.0011 (J)	<0.005				
9/24/2020	<0.005	<0.005				0.0011 (J)			<0.005
9/25/2020							<0.005	<0.005	
2/8/2021				<0.005	<0.005				
2/9/2021			<0.005			0.00086 (J)	<0.005		
2/10/2021	<0.005	<0.005						<0.005	<0.005
3/2/2021				<0.005	<0.005				
3/3/2021			0.0013 (J)						
3/4/2021	<0.005	<0.005				0.00078 (J)	<0.005	<0.005	<0.005
8/25/2021						<0.005			<0.005
8/26/2021	<0.005		<0.005	<0.005	<0.005		<0.005	<0.005	
9/3/2021		<0.005							
9/27/2021									
2/8/2022	<0.005	<0.005						<0.005	
2/10/2022				<0.005	<0.005	<0.005	<0.005		<0.005
2/11/2022			<0.005						
8/30/2022				<0.005	<0.005				
8/31/2022	<0.005	<0.005	<0.005						
9/1/2022						<0.005	<0.005	<0.005	<0.005
2/7/2023	<0.005			<0.005					
2/8/2023		<0.005				0.0014 (J)	<0.005	<0.005	<0.005
2/9/2023			<0.005		0.0012 (J)				
8/15/2023	<0.005	<0.005	<0.005	<0.005	<0.005				
8/16/2023						<0.005	<0.005	<0.005	<0.005
2/20/2024	<0.005	<0.005	<0.005	<0.005	<0.005				
2/21/2024						<0.005			
2/22/2024							<0.005	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	<0.005
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	<0.005
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	<0.005
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	0.0005 (J)
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	<0.005
10/11/2017	
10/12/2017	<0.005
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	<0.005
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	<0.005
9/24/2018	
3/4/2019	
3/6/2019	
8/21/2019	0.00062 (J)
8/22/2019	
10/9/2019	0.00074 (J)
2/12/2020	
3/24/2020	

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-43
3/25/2020	<0.005
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	0.00071 (J)
2/8/2021	
2/9/2021	<0.005
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	<0.005
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	<0.005
2/8/2022	<0.005
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	<0.005
2/7/2023	
2/8/2023	<0.005
2/9/2023	
8/15/2023	
8/16/2023	<0.005
2/20/2024	
2/21/2024	
2/22/2024	<0.005

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/1/2007			0.0029						
9/11/2007			0.0084						
3/20/2008			0.0027						
8/27/2008			0.0026						
3/3/2009			0.0022						
11/18/2009			0.0036						
3/3/2010			<0.005						
9/8/2010			<0.005						
3/10/2011			<0.005						
9/8/2011			<0.005						
3/5/2012			<0.005						
9/10/2012			<0.005						
2/6/2013			<0.005						
8/12/2013			<0.005						
2/5/2014			0.0059						
8/5/2014			<0.005						
2/4/2015			<0.005						
8/3/2015			0.0011 (J)						
2/16/2016			<0.005						
6/1/2016					0.0035	<0.005			
6/2/2016				<0.005				<0.005	0.0013 (J)
7/25/2016						<0.005		<0.005	
7/26/2016				<0.005	<0.005				<0.005
8/30/2016		<0.005							
8/31/2016			<0.005						
9/1/2016	0.0013 (J)								
9/13/2016					<0.005	<0.005			
9/14/2016							<0.005		
9/15/2016				<0.005					<0.005
9/19/2016								<0.005	
11/1/2016					<0.005			<0.005	<0.005
11/2/2016				<0.005					
11/4/2016						<0.005	<0.005		
11/14/2016		0.0093 (J)							
11/15/2016	0.0014 (J)								
11/28/2016			<0.005						
12/15/2016							<0.005		
1/10/2017				<0.005					
1/11/2017					<0.005				<0.005
1/16/2017						<0.005	<0.005	<0.005	
2/21/2017								<0.005	
2/22/2017			<0.005						
2/24/2017		<0.005							
2/27/2017	0.0016 (J)								
3/1/2017									
3/2/2017					0.0009 (J)	0.0004 (J)			0.0006 (J)
3/3/2017							0.0005 (J)		
3/8/2017				<0.005					
4/26/2017				<0.005				0.0016 (J)	<0.005
4/27/2017					<0.005	<0.005			
4/28/2017							0.0004 (J)		
5/8/2017		<0.005	<0.005						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/9/2017	0.0017 (J)								
5/26/2017							<0.005		
6/27/2017					<0.005	<0.005			
6/28/2017							<0.005		<0.005
6/30/2017				<0.005				<0.005	
7/11/2017		<0.005							
7/13/2017	0.0019 (J)								
7/17/2017			<0.005						
10/10/2017		<0.005							
10/11/2017	0.0014 (J)								
10/16/2017			<0.005						
2/19/2018			<0.005						
3/27/2018				<0.005		<0.005		<0.005	
3/28/2018							<0.005		<0.005
3/29/2018					<0.005				
4/2/2018		<0.005							
4/4/2018	<0.01								
8/6/2018			<0.005						
9/19/2018		<0.005							
9/20/2018	0.0017 (J)								
2/25/2019			<0.005						
2/26/2019				<0.005				<0.005	
2/27/2019					<0.005	<0.005	<0.005		<0.005
3/28/2019					<0.005	0.0021 (J)			
3/29/2019				<0.005			<0.005		
4/1/2019								<0.005	<0.005
6/12/2019			<0.005						
8/19/2019			<0.005						
8/20/2019		<0.005							
9/24/2019					0.00072 (J)	0.0028 (J)	<0.005		
9/25/2019				<0.005				<0.005	0.0014 (J)
10/8/2019			<0.005						
2/10/2020					0.00042 (J)	<0.005			
2/11/2020							<0.005		
2/12/2020				<0.005				<0.005	<0.005
3/17/2020			<0.005						
3/18/2020				<0.005		0.00044 (J)			
3/19/2020					0.00084 (J)		0.00048 (J)	<0.005	<0.005
3/25/2020	0.0019 (J)								
8/26/2020			<0.005						
8/27/2020		<0.005							
9/22/2020		<0.005	<0.005						
9/23/2020					0.00062 (J)	0.00058 (J)	<0.005		<0.005
9/24/2020	0.0019 (J)							<0.005	
9/25/2020				<0.005					
2/9/2021	0.002 (J)								
2/10/2021				<0.005			<0.005		<0.005
2/11/2021								<0.005	
2/12/2021					<0.005	<0.005			
3/1/2021		<0.005						<0.005	
3/2/2021			<0.005	<0.005					
3/3/2021					<0.005	<0.005	<0.005		<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
3/4/2021	0.0017 (J)								
8/19/2021		<0.005		<0.005	<0.005	<0.005		<0.005	<0.005
8/20/2021			<0.005						
8/27/2021							<0.005		
9/1/2021	0.002 (J)								
2/8/2022	0.0021 (J)	<0.005	<0.005						
2/9/2022					<0.005	<0.005	<0.005		<0.005
2/10/2022				<0.005					
2/11/2022								<0.005	
8/30/2022			<0.005		0.0011 (J)		<0.005		
8/31/2022	0.002 (J)	<0.005		<0.005		<0.005		<0.005	<0.005
2/7/2023			<0.005		<0.005	0.0013 (J)	<0.005		
2/8/2023		<0.005		<0.005				0.0021 (J)	<0.005
2/9/2023	0.002 (J)								
8/15/2023		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005
8/16/2023	0.0017 (J)							<0.005	
2/20/2024		<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005
2/21/2024	0.0021 (J)								
2/23/2024				<0.005					

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/1/2007	
9/11/2007	
3/20/2008	
8/27/2008	
3/3/2009	
11/18/2009	
3/3/2010	
9/8/2010	
3/10/2011	
9/8/2011	
3/5/2012	
9/10/2012	
2/6/2013	
8/12/2013	
2/5/2014	
8/5/2014	
2/4/2015	
8/3/2015	
2/16/2016	
6/1/2016	<0.005
6/2/2016	
7/25/2016	<0.005
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	<0.005
9/15/2016	
9/19/2016	
11/1/2016	<0.005
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	<0.005
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	0.0004 (J)
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	<0.005
4/27/2017	
4/28/2017	
5/8/2017	

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	<0.005
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	<0.005
3/29/2018	
4/2/2018	
4/4/2018	
8/6/2018	
9/19/2018	
9/20/2018	
2/25/2019	
2/26/2019	
2/27/2019	<0.005
3/28/2019	
3/29/2019	
4/1/2019	<0.005
6/12/2019	
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	0.0019 (J)
10/8/2019	
2/10/2020	
2/11/2020	<0.005
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	<0.005
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	<0.005
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	<0.005
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	<0.005

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-3I (bg)
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	<0.005
9/1/2021	
2/8/2022	
2/9/2022	<0.005
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	<0.005
2/7/2023	
2/8/2023	<0.005
2/9/2023	
8/15/2023	
8/16/2023	<0.005
2/20/2024	<0.005
2/21/2024	
2/23/2024	

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50
6/8/2016							<0.005	
8/1/2016							<0.005	
9/2/2016			<0.005					
9/20/2016							<0.005	
11/8/2016							<0.005	
11/14/2016			0.0035					
1/17/2017							<0.005	
2/28/2017			<0.005					
3/8/2017							<0.005	
5/2/2017							0.0011 (J)	
5/9/2017			<0.005					
7/7/2017							<0.005	
7/13/2017			<0.005					
9/22/2017			<0.005					
9/29/2017			<0.005					
10/6/2017			<0.005					
10/12/2017		0.0019 (J)						
11/21/2017		0.0017 (J)						
1/11/2018		0.001 (J)						
2/20/2018		<0.005						
3/30/2018			<0.005				<0.005	
4/3/2018		<0.005						
6/29/2018		<0.005						
8/6/2018		<0.005						
9/24/2018		<0.005						
3/5/2019							<0.005	
3/6/2019			<0.005					
3/25/2020	0.0012 (J)		0.00074 (J)					
3/26/2020							0.00094 (J)	
9/23/2020							<0.005	
9/24/2020	0.00061 (J)							
9/25/2020		<0.005						
10/7/2020			0.0013 (J)					
2/9/2021		<0.005					0.0011 (J)	
2/10/2021	0.0006 (J)		0.00094 (J)					
3/3/2021							<0.005	
3/4/2021	0.0007 (J)	<0.005	<0.005					
8/25/2021		<0.005						
9/1/2021	<0.005						<0.005	
9/3/2021			<0.005	<0.005				
2/10/2022	<0.005	<0.005				<0.005	<0.005	
2/11/2022			<0.005	<0.005	0.0011 (J)			
8/31/2022	<0.005							
9/1/2022		<0.005	<0.005	<0.005	<0.005	<0.005		
2/8/2023		<0.005		<0.005	<0.005			
2/9/2023	0.0016 (J)		<0.005			<0.005		
2/10/2023							<0.005	
8/16/2023	<0.005		<0.005	<0.005		<0.005	<0.005	
8/17/2023		<0.005			<0.005			<0.005
12/20/2023								<0.005
2/21/2024		<0.005		<0.005	<0.005			
2/22/2024						<0.005		<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50
2/23/2024	<0.005		<0.005				<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							<0.005	0.00061 (J)	
6/7/2016						<0.005			<0.005
7/27/2016						<0.005	<0.005	0.0004 (J)	<0.005
7/28/2016									
9/16/2016						<0.005		0.0008 (J)	
9/19/2016							<0.005		<0.005
11/2/2016									<0.005
11/3/2016						<0.005	<0.005	<0.005	
1/11/2017						<0.005	<0.005	<0.005	
1/13/2017									<0.005
3/1/2017							<0.005	<0.005	
3/2/2017						<0.005			
3/6/2017									<0.005
4/26/2017							<0.005	<0.005	<0.005
5/2/2017						<0.005			
6/28/2017							<0.005	<0.005	
6/29/2017						<0.005			<0.005
3/28/2018						<0.005	<0.005	<0.005	
3/29/2018									<0.005
6/5/2018									
6/6/2018									<0.005
6/7/2018							<0.005		
6/11/2018						<0.005		<0.005	
9/25/2018						<0.005	<0.005	<0.005	<0.005
10/16/2018	0.032								
3/5/2019						<0.005		<0.005	<0.005
3/6/2019							<0.005		
4/2/2019						<0.005			
4/3/2019							<0.005	<0.005	<0.005
9/24/2019									
9/25/2019						<0.005			<0.005
9/26/2019	0.015						<0.005	<0.005	
1/3/2020	<0.005								
2/11/2020						<0.005	<0.005	<0.005	
2/12/2020									<0.005
3/24/2020						<0.005	<0.005	<0.005	<0.005
3/25/2020	<0.005								
9/23/2020		0.0025 (J)		0.00052 (J)		<0.005	<0.005	<0.005	
9/24/2020	0.01				0.00077 (J)				<0.005
2/9/2021	0.03	0.001 (J)		0.00063 (J)	<0.005		<0.005	<0.005	<0.005
3/3/2021	0.018	0.00082 (J)		0.001 (J)		<0.005	<0.005	<0.005	<0.005
3/4/2021					<0.005				
8/25/2021				0.00041 (J)					
8/26/2021					<0.005			<0.005	
8/27/2021						<0.005	<0.005		<0.005
9/1/2021	0.022	0.00093 (J)							
2/9/2022						<0.005	<0.005	<0.005	<0.005
2/10/2022	0.011	0.00052 (J)	0.16	0.00044 (J)	<0.005				
8/30/2022						<0.005	<0.005	<0.005	
8/31/2022	0.0041 (J)								<0.005
9/1/2022		0.0068	0.058	0.00048 (J)	<0.005				
2/7/2023						<0.005	<0.005	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
2/8/2023		<0.005		0.00085 (J)	<0.005				
2/9/2023	0.0045 (J)		0.066						
8/15/2023						<0.005	<0.005	<0.005	<0.005
8/16/2023	0.0027 (J)		0.14	<0.005	<0.005				
8/17/2023		0.0053							
2/20/2024						<0.005	<0.005		<0.005
2/21/2024			0.051						
2/22/2024		0.00044 (J)		<0.005	<0.005				
2/23/2024	0.0044 (J)							<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	0.0056
7/27/2016	
7/28/2016	0.0032 (J)
9/16/2016	
9/19/2016	0.0047 (J)
11/2/2016	
11/3/2016	0.013
1/11/2017	
1/13/2017	0.011
3/1/2017	
3/2/2017	
3/6/2017	0.011
4/26/2017	0.009 (J)
5/2/2017	
6/28/2017	
6/29/2017	0.0093 (J)
3/28/2018	
3/29/2018	<0.005
6/5/2018	0.0041 (J)
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	0.0044 (J)
10/16/2018	
3/5/2019	0.0039 (J)
3/6/2019	
4/2/2019	0.0039 (J)
4/3/2019	
9/24/2019	0.0032 (J)
9/25/2019	
9/26/2019	
1/3/2020	
2/11/2020	
2/12/2020	0.0081
3/24/2020	0.0061
3/25/2020	
9/23/2020	
9/24/2020	0.0079
2/9/2021	0.009
3/3/2021	
3/4/2021	0.0065
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	0.0068
2/9/2022	0.0078
2/10/2022	
8/30/2022	0.0066
8/31/2022	
9/1/2022	
2/7/2023	0.014

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-21I (bg)
2/8/2023	
2/9/2023	
8/15/2023	0.011
8/16/2023	
8/17/2023	
2/20/2024	0.02
2/21/2024	
2/22/2024	
2/23/2024	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			0.00082 (J)	<0.005	<0.005				
6/7/2016						<0.005			
7/26/2016			0.0012 (J)	<0.005	<0.005				
7/28/2016						<0.005			
8/30/2016									0.0025 (J)
8/31/2016									
9/14/2016			0.0006 (J)	<0.005	<0.005				
9/20/2016						<0.005			
11/2/2016			<0.005	<0.005					
11/4/2016					<0.005				
11/8/2016						<0.005			
11/16/2016									0.002 (J)
1/12/2017				<0.005	<0.005				
1/13/2017			0.0029 (J)						
1/16/2017						<0.005			
2/24/2017									
2/27/2017									0.0021 (J)
3/6/2017			0.0006 (J)						
3/7/2017				<0.005	<0.005				
3/9/2017						<0.005			
5/1/2017			<0.005	<0.005					
5/2/2017					<0.005	<0.005			
5/10/2017									0.0021 (J)
6/27/2017				<0.005	<0.005				
6/29/2017			0.0005 (J)						
7/10/2017						<0.005			
7/11/2017									0.0014 (J)
10/11/2017	<0.005								
10/12/2017		<0.005					<0.005	0.0011 (J)	0.0017 (J)
11/20/2017	<0.005	<0.005					<0.005		
11/21/2017								0.0003 (J)	
1/10/2018		<0.005							
1/11/2018	<0.005							0.0003 (J)	
1/12/2018							<0.005		
2/19/2018		<0.005						<0.005	
2/20/2018	<0.005						<0.005		
3/29/2018			<0.005	<0.005	<0.005				
3/30/2018						<0.005			
4/3/2018	<0.005	<0.005					<0.005	<0.005	
4/4/2018									<0.005
6/6/2018				<0.005					
6/7/2018			0.00058 (J)		<0.005				
6/12/2018						<0.005			
6/27/2018								0.00069 (J)	
6/28/2018	<0.005	<0.005					<0.005		
8/7/2018	<0.005	<0.005					<0.005	<0.005	
9/20/2018									0.003 (J)
9/24/2018	<0.005	<0.005					<0.005	<0.005	
9/26/2018			<0.005	<0.005	<0.005				
9/27/2018						<0.005			
3/4/2019			<0.005	<0.005	<0.005				
3/6/2019						<0.005			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
4/3/2019			0.00083 (J)	<0.005	<0.005				
4/4/2019						<0.005			
8/21/2019	0.00034 (J)	<0.005							
8/22/2019							<0.005	<0.005	0.0019 (J)
9/24/2019				<0.005	<0.005				
9/25/2019			<0.005						
9/27/2019						<0.005			
10/9/2019	<0.005	<0.005					<0.005	<0.005	0.0019 (J)
2/12/2020	0.00034 (J)	<0.005	<0.005	0.00037 (J)	<0.005				
3/24/2020		<0.005		0.00035 (J)	<0.005				
3/25/2020	0.00034 (J)		0.00056 (J)				<0.005	<0.005	0.0018 (J)
3/26/2020						<0.005			
9/22/2020			<0.005	<0.005	<0.005				
9/24/2020	0.00053 (J)	<0.005				<0.005			0.0017 (J)
9/25/2020							<0.005	<0.005	
2/8/2021				<0.005	<0.005				
2/9/2021			<0.005			<0.005	<0.005		
2/10/2021	0.00098 (J)	<0.005						<0.005	0.0019 (J)
3/2/2021				<0.005	<0.005				
3/3/2021			<0.005						
3/4/2021	0.00071 (J)	<0.005				<0.005	<0.005	<0.005	0.0018 (J)
8/25/2021						<0.005			0.0014 (J)
8/26/2021	0.0011 (J)		0.00042 (J)	<0.005	<0.005		<0.005	<0.005	
9/3/2021		<0.005							
9/27/2021									
2/8/2022	0.0012 (J)	<0.005						<0.005	
2/10/2022				<0.005	<0.005	<0.005	<0.005		0.0017 (J)
2/11/2022			<0.005						
8/30/2022				<0.005	<0.005				
8/31/2022	0.00085 (J)	<0.005	<0.005						
9/1/2022						<0.005	<0.005	<0.005	0.0015 (J)
2/7/2023	0.00066 (J)			<0.005					
2/8/2023		<0.005				<0.005	<0.005	<0.005	0.0018 (J)
2/9/2023			<0.005		<0.005				
8/15/2023	0.00072 (J)	<0.005	<0.005	<0.005	<0.005				
8/16/2023						<0.005	<0.005	<0.005	0.0014 (J)
2/20/2024	0.00073 (J)	<0.005	<0.005	<0.005	<0.005				
2/21/2024						<0.005			
2/22/2024							<0.005	<0.005	0.0023 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	<0.005
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	<0.005
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	<0.005
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	<0.005
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	<0.005
10/11/2017	
10/12/2017	0.0006 (J)
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	<0.005
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	0.0034 (J)
9/24/2018	
9/26/2018	
9/27/2018	
3/4/2019	
3/6/2019	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-43
4/3/2019	
4/4/2019	
8/21/2019	0.0026 (J)
8/22/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	0.0023 (J)
2/12/2020	
3/24/2020	
3/25/2020	0.0016 (J)
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	0.0018 (J)
2/8/2021	
2/9/2021	0.0017 (J)
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	0.0015 (J)
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	<0.005
2/8/2022	0.00045 (J)
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	0.0005 (J)
2/7/2023	
2/8/2023	0.00049 (J)
2/9/2023	
8/15/2023	
8/16/2023	0.00046 (J)
2/20/2024	
2/21/2024	
2/22/2024	0.00038 (J)

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/1/2007			0.0067						
9/11/2007			<0.005						
3/20/2008			<0.005						
8/27/2008			<0.005						
3/3/2009			<0.005						
11/18/2009			<0.005						
3/3/2010			0.0027						
9/8/2010			0.007						
3/10/2011			<0.005						
9/8/2011			<0.005						
3/5/2012			0.0032						
9/10/2012			<0.005						
2/6/2013			<0.005						
8/12/2013			0.0045						
2/5/2014			<0.005						
8/5/2014			0.0027						
2/4/2015			0.0016						
8/3/2015			0.002						
2/16/2016			0.0027						
6/1/2016					<0.005	0.00082 (J)			
6/2/2016				<0.005				0.035	<0.005
7/25/2016						0.0008 (J)		0.0312	
7/26/2016				<0.005	<0.005				<0.005
8/30/2016		0.0073 (J)							
8/31/2016			0.0053 (J)						
9/1/2016	<0.005								
9/13/2016					<0.005	0.0009 (J)			
9/14/2016							<0.005		
9/15/2016				<0.005					<0.005
9/19/2016								0.0275	
11/1/2016					<0.005			0.0255	<0.005
11/2/2016				<0.005					
11/4/2016						0.0025 (J)	<0.005		
11/14/2016		0.0115							
11/15/2016	0.0006 (J)								
11/28/2016			0.0036 (J)						
12/15/2016							<0.005		
1/10/2017				<0.005					
1/11/2017					<0.005				<0.005
1/16/2017						0.0027 (J)	<0.005	0.0245	
2/21/2017								0.0272	
2/22/2017			0.0049 (J)						
2/24/2017		0.0106							
2/27/2017	0.0008 (J)								
3/1/2017									
3/2/2017					<0.005	0.0022 (J)			<0.005
3/3/2017							<0.005		
3/8/2017				<0.005					
4/26/2017				<0.005				0.0244	<0.005
4/27/2017					<0.005	0.0018 (J)			
4/28/2017							<0.005		
5/8/2017		0.0099 (J)	0.0059 (J)						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/9/2017	<0.005								
5/26/2017							<0.005		
6/27/2017					<0.005	0.0023 (J)			
6/28/2017							<0.005		<0.005
6/30/2017				<0.005				0.0233	
7/11/2017		0.0096 (J)							
7/13/2017	0.0005 (J)								
7/17/2017			0.0046 (J)						
10/10/2017		0.0036 (J)							
10/11/2017	0.0006 (J)								
10/16/2017			0.0034 (J)						
2/19/2018			<0.005						
3/27/2018				<0.005		<0.005		0.023	
3/28/2018							<0.005		<0.005
3/29/2018					<0.005				
4/2/2018		<0.005							
4/4/2018	<0.005								
6/5/2018					<0.005				
6/6/2018						<0.005			
6/7/2018							<0.005		<0.005
6/8/2018				<0.005					
6/11/2018								0.023	
8/6/2018			0.003 (J)						
9/19/2018		0.0036 (J)							
9/20/2018	<0.005								
10/1/2018				<0.005	<0.005	0.00059 (J)	<0.005		<0.005
10/2/2018								0.022	
2/25/2019			0.001 (J)						
2/26/2019				<0.005				0.021	
2/27/2019					<0.005	0.00064 (J)	<0.005		<0.005
3/28/2019					<0.005	0.00091 (J)			
3/29/2019				<0.005			<0.005		
4/1/2019								0.022	<0.005
6/12/2019			0.003 (J)						
8/19/2019			0.0035 (J)						
8/20/2019		0.00092 (J)							
9/24/2019					<0.005	0.0013 (J)	<0.005		
9/25/2019				<0.005				0.016	<0.005
9/26/2019	<0.005								
10/8/2019		0.0014 (J)	0.0039 (J)						
2/10/2020					<0.005	0.0016 (J)			
2/11/2020							<0.005		
2/12/2020				<0.005				0.014	<0.005
3/17/2020		0.0017 (J)	0.003 (J)						
3/18/2020				<0.005		0.00087 (J)			
3/19/2020					<0.005		<0.005	0.014	<0.005
3/25/2020	<0.005								
8/26/2020			0.2 (O)						
8/27/2020		0.0011 (J)							
9/22/2020		0.00097 (J)	0.16 (O)						
9/23/2020					<0.005	0.0013 (J)	<0.005		<0.005
9/24/2020	<0.005							0.0064	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
9/25/2020				<0.005					
2/9/2021	<0.005								
2/10/2021				<0.005			<0.005		<0.005
2/11/2021								0.0078	
2/12/2021					0.00086 (J)	0.0028 (J)			
3/1/2021		0.001 (J)						0.0061	
3/2/2021			0.21 (O)	<0.005					
3/3/2021					<0.005	0.003 (J)	<0.005		<0.005
3/4/2021	<0.005								
8/19/2021		0.00099 (J)		<0.005	0.00055 (J)	0.0017 (J)		0.0052	<0.005
8/20/2021			0.074 (O)						
8/27/2021							<0.005		
9/1/2021	<0.005								
2/8/2022	<0.005	0.0013 (J)	0.072 (o)						
2/9/2022					0.00072 (J)	0.0023 (J)	<0.005		<0.005
2/10/2022				<0.005					
2/11/2022								0.0038 (J)	
8/30/2022			0.075 (o)		<0.005		<0.005		
8/31/2022	<0.005	0.00096 (J)		<0.005		0.00085 (J)		0.004 (J)	<0.005
2/7/2023			0.034		0.00097 (J)	0.0048 (J)	<0.005		
2/8/2023		0.0011 (J)		<0.005				0.0031 (J)	<0.005
2/9/2023	<0.005								
8/15/2023		0.00072 (J)	0.031	<0.005	<0.005	0.00072 (J)	<0.005		<0.005
8/16/2023	<0.005							0.0028 (J)	
2/20/2024		0.0011 (J)	0.023		0.00055 (J)	0.0018 (J)	<0.005	0.0029 (J)	<0.005
2/21/2024	<0.005								
2/23/2024				<0.005					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/1/2007	
9/11/2007	
3/20/2008	
8/27/2008	
3/3/2009	
11/18/2009	
3/3/2010	
9/8/2010	
3/10/2011	
9/8/2011	
3/5/2012	
9/10/2012	
2/6/2013	
8/12/2013	
2/5/2014	
8/5/2014	
2/4/2015	
8/3/2015	
2/16/2016	
6/1/2016	<0.005
6/2/2016	
7/25/2016	<0.005
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	<0.005
9/15/2016	
9/19/2016	
11/1/2016	<0.005
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	<0.005
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	<0.005
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	<0.005
4/27/2017	
4/28/2017	
5/8/2017	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	<0.005
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	<0.005
3/29/2018	
4/2/2018	
4/4/2018	
6/5/2018	
6/6/2018	
6/7/2018	
6/8/2018	<0.005
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	<0.005
10/2/2018	
2/25/2019	
2/26/2019	
2/27/2019	<0.005
3/28/2019	
3/29/2019	
4/1/2019	<0.005
6/12/2019	
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	<0.005
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	<0.005
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	<0.005
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	<0.005
9/24/2020	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-3I (bg)
9/25/2020	
2/9/2021	
2/10/2021	<0.005
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	<0.005
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	<0.005
9/1/2021	
2/8/2022	
2/9/2022	<0.005
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	<0.005
2/7/2023	
2/8/2023	<0.005
2/9/2023	
8/15/2023	
8/16/2023	<0.005
2/20/2024	<0.005
2/21/2024	
2/23/2024	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50
6/8/2016							<0.005	
8/1/2016							<0.005	
9/2/2016			0.0006 (J)					
9/20/2016							<0.005	
11/8/2016							<0.005	
11/14/2016			<0.005					
1/17/2017							<0.005	
2/28/2017			<0.005					
3/8/2017							<0.005	
5/2/2017							<0.005	
5/9/2017			<0.005					
7/7/2017							<0.005	
7/13/2017			<0.005					
9/22/2017			<0.005					
9/29/2017			<0.005					
10/6/2017			<0.005					
10/12/2017		0.0078 (J)						
11/21/2017		0.0097 (J)						
1/11/2018		0.0131						
2/20/2018		0.0162						
3/30/2018			<0.005				<0.005	
4/3/2018		0.015						
6/12/2018							<0.005	
6/13/2018			<0.005					
6/29/2018		0.013						
8/6/2018		0.0053 (J)						
9/24/2018		0.0071 (J)						
9/26/2018			<0.005				<0.005	
10/16/2018	<0.005							
3/5/2019							<0.005	
3/6/2019			<0.005					
4/4/2019			<0.005				<0.005	
9/26/2019	<0.005		0.00048 (J)				<0.005	
3/25/2020	0.0059		0.00038 (J)					
3/26/2020							<0.005	
9/23/2020							<0.005	
9/24/2020	<0.005							
9/25/2020		0.0023 (J)						
10/7/2020			0.00086 (J)					
2/9/2021		0.0023 (J)					<0.005	
2/10/2021	<0.005		0.00038 (J)					
3/3/2021							<0.005	
3/4/2021	<0.005	0.003 (J)	<0.005					
8/25/2021		0.0068						
9/1/2021	<0.005						<0.005	
9/3/2021			<0.005	<0.005				
2/10/2022	<0.005	0.0036 (J)				0.033	<0.005	
2/11/2022			<0.005	<0.005	0.0011 (J)			
8/31/2022	<0.005							
9/1/2022		0.0025 (J)	<0.005	<0.005	0.0016 (J)	0.018		
2/8/2023		0.0022 (J)		<0.005	0.0026 (J)			
2/9/2023	<0.005		<0.005			0.0071		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50
2/10/2023							<0.005	
8/16/2023	<0.005		<0.005	<0.005		0.0056	<0.005	
8/17/2023		0.0027 (J)			0.0031 (J)			0.0086
12/20/2023								0.0052
2/21/2024		0.0017 (J)		<0.005	0.0029 (J)			
2/22/2024						0.0051		0.0063
2/23/2024	<0.005		<0.005				<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							0.0804 (U)	0.301 (U)	
6/7/2016						0.158 (U)			0.0191 (U)
7/27/2016						0.0354 (U)	0.206 (U)	0.196 (U)	0.541 (U)
7/28/2016									
9/16/2016						1.04		0.915 (U)	
9/19/2016							1.58		0.826 (U)
11/2/2016									0.791 (U)
11/3/2016						0.314 (U)	0.342 (U)	0.928 (U)	
1/11/2017						0.34 (U)	0.365 (U)	0.502 (U)	
1/13/2017									0.296 (U)
3/1/2017							0.395 (U)	0.202 (U)	
3/2/2017						0.746 (U)			
3/6/2017									0.518 (U)
4/26/2017							0.507 (U)	0.264 (U)	0.282 (U)
5/2/2017						0.111 (U)			
6/28/2017							0.892	0.636 (U)	
6/29/2017						0.576 (U)			1.12
3/28/2018						0.438 (U)	0.92 (U)	0.56 (U)	
3/29/2018									1.73
6/5/2018									
6/6/2018									0.694 (U)
6/7/2018							0.668 (U)		
6/11/2018						0.901 (U)		0.649 (U)	
9/25/2018						0.68 (U)	0.141 (U)	0.574 (U)	0.772 (U)
10/16/2018	0.384 (U)								
3/5/2019						0.272 (U)		0.474 (U)	0.84 (U)
3/6/2019							0.714 (U)		
4/2/2019						0.847 (U)			
4/3/2019							0.385 (U)	0.429 (U)	1.01
9/24/2019									
9/25/2019						0.412 (U)			1.18 (U)
9/26/2019							0.386 (U)	0.222 (U)	
2/11/2020						0.461 (U)	1.48	0.597 (U)	
2/12/2020									1.11 (U)
3/24/2020						0.534 (U)	0.632 (U)	0.262 (U)	1.88
3/25/2020	0.525 (U)								
9/23/2020		0.0813 (U)		1.2 (U)		0.466 (U)	0.887 (U)	0.43 (U)	
9/24/2020	0.547 (U)				0.668 (U)				0.611 (U)
2/9/2021	0.866 (U)	0.492 (U)		0.659 (U)	1.07 (U)	0.529 (U)	0.314 (U)	0.259 (U)	0.284 (U)
3/3/2021	0.377 (U)	0.563 (U)		1.07		0.59 (U)	0.565 (U)	0.352 (U)	0.133 (U)
3/4/2021					1.46				
8/25/2021				0.0991 (U)					
8/26/2021					0.724 (U)			0.686 (U)	
8/27/2021						0.9 (U)	0.761 (U)		0.779 (U)
9/1/2021	0.676 (U)	0.761 (U)							
2/9/2022						0.133 (U)	0.571 (U)	0.0618 (U)	0.504 (U)
2/10/2022	0.233 (U)	0 (U)	0.988 (U)	0.702 (U)	1.25 (U)				
8/30/2022						1.08	1.01	0.611 (U)	
8/31/2022	0.313 (U)								0.184 (U)
9/1/2022		0.959 (U)	0.975 (U)	0.381 (U)	0.811 (U)				
2/7/2023						0.367 (U)	0.485 (U)	0.656 (U)	0.794 (U)
2/8/2023		0.0994 (U)		0.239 (U)	0.502 (U)				

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
2/9/2023	0.595 (U)		2.19						
8/15/2023						0.0388 (U)	0.655 (U)	0.347 (U)	0.165 (U)
8/16/2023	0.575 (U)		2.77	0.431 (U)	0.858 (U)				
8/17/2023		0.686 (U)							
2/20/2024						0.0387 (U)	0.068 (U)		0.165 (U)
2/21/2024			0.973 (U)						
2/22/2024		0.463 (U)		0.196 (U)	0.606 (U)				
2/23/2024	0.566 (U)							0.318 (U)	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	0.347
7/27/2016	
7/28/2016	0.815 (U)
9/16/2016	
9/19/2016	0.862 (U)
11/2/2016	
11/3/2016	0.797 (U)
1/11/2017	
1/13/2017	0.72 (U)
3/1/2017	
3/2/2017	
3/6/2017	0.518 (U)
4/26/2017	1.13 (U)
5/2/2017	
6/28/2017	
6/29/2017	0.841 (U)
3/28/2018	
3/29/2018	1.91
6/5/2018	1.39
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	1.62
10/16/2018	
3/5/2019	0.985 (U)
3/6/2019	
4/2/2019	1.42
4/3/2019	
9/24/2019	1.35
9/25/2019	
9/26/2019	
2/11/2020	
2/12/2020	1.61
3/24/2020	1.24 (U)
3/25/2020	
9/23/2020	
9/24/2020	1.8
2/9/2021	1.24
3/3/2021	1.2
3/4/2021	
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	1.86
2/9/2022	1.94
2/10/2022	
8/30/2022	1.27
8/31/2022	
9/1/2022	
2/7/2023	1.53
2/8/2023	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-21I (bg)
2/9/2023	
8/15/2023	1.68
8/16/2023	
8/17/2023	
2/20/2024	1.19
2/21/2024	
2/22/2024	
2/23/2024	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			0.721	5.11	0.614				
6/7/2016						0.303 (U)			
7/26/2016			1.26	6.92	1.47				
7/28/2016						0.386 (U)			
8/30/2016									2.99
8/31/2016									
9/14/2016			0.901 (U)	3.96	1.27				
9/20/2016						1.47			
11/2/2016			1.09 (U)	4.53					
11/4/2016					0.434 (U)				
11/8/2016						0.22 (U)			
11/16/2016									4.01
1/12/2017				4.43	0.202 (U)				
1/13/2017			1.19						
1/16/2017						0.147 (U)			
2/24/2017									
2/27/2017									2.5
3/6/2017			0.669 (U)						
3/7/2017				4.8	0.0674 (U)				
3/9/2017						0.0892 (U)			
5/1/2017			0.803 (U)	4.16					
5/2/2017					0.444 (U)	0.149 (U)			
5/10/2017									2.55
6/27/2017				2.8	0.77 (U)				
6/29/2017			1.35						
7/10/2017						0.815 (U)			
7/11/2017									3.94
10/11/2017	0.586 (U)								
10/12/2017		1.49					1.24	0.641 (U)	3.57
11/20/2017	0.816 (U)	0.918 (U)					0.342 (U)		
11/21/2017								2.01	
1/10/2018		1.05							
1/11/2018	0.841 (U)							0.919 (U)	
1/12/2018							1.04		
2/19/2018		2.05						1.82	
2/20/2018	1.58						1.6 (U)		
3/29/2018			0.703 (U)	3.42	0.648 (U)				
3/30/2018						0.659 (U)			
4/3/2018	0.385 (U)	0.68 (U)					0.726 (U)	0.911 (U)	
4/4/2018									1.9
6/6/2018				3.99					
6/7/2018			0.628 (U)		0.745 (U)				
6/12/2018						1.03 (U)			
6/27/2018								0.429 (U)	
6/28/2018	0.283 (U)	1.28					1.06 (U)		
8/7/2018	0.332 (U)	1.16					1.21	0.579 (U)	
9/20/2018									1.94
9/24/2018	0.767 (U)	0.965 (U)					1.52	1.39	
9/26/2018			0.756 (U)	2.73	0.377 (U)				
9/27/2018						1.06 (U)			
3/4/2019			1.21 (U)	4.43	1 (U)				
3/6/2019						0.736 (U)			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
4/3/2019			1.07 (U)	4.79	0.43 (U)				
4/4/2019						0.474 (U)			
8/21/2019	1.01 (U)	1.24 (U)							
8/22/2019							1.97	2.03	1.59
9/24/2019				4.06	0.699 (U)				
9/25/2019			1.86						
9/27/2019						0.684 (U)			
10/8/2019	1.02 (U)	0.866 (U)					0.751 (U)	0.609 (U)	0.995 (U)
2/12/2020	0.45 (U)	1.83	1.25	4.02	0.913 (U)				
3/24/2020		1.27 (U)		3.52					
3/25/2020	0.377 (U)		0.766 (U)				0.321 (U)	0.568 (U)	1.17 (U)
3/26/2020						0.281 (U)			
9/22/2020			0.795 (U)	2.98	0.428 (U)				
9/24/2020	0.568 (U)	0.634 (U)				0.788 (U)			0.751 (U)
9/25/2020							0.246 (U)	0.769 (U)	
2/8/2021				2.89	0.613 (U)				
2/9/2021			0.626 (U)			0.464 (U)	0.626 (U)		
2/10/2021	0.518 (U)	0.783 (U)						0.548 (U)	0.612 (U)
3/2/2021				1.67	0.579 (U)				
3/3/2021			1						
3/4/2021	0.636 (U)	0.818 (U)				0.771 (U)	0.816 (U)	1.23	1.02
8/25/2021						0.624 (U)			0.978 (U)
8/26/2021	0.674 (U)		1.17 (U)	4.68	0.798 (U)		0.427 (U)	0.356 (U)	
9/3/2021		0.971 (U)							
9/27/2021									
2/8/2022	0.834	0.534 (U)						0.594 (U)	
2/10/2022				3.33	0.375 (U)	0.197 (U)	0.791 (U)		0.307 (U)
2/11/2022			0.996						
8/30/2022				5.34	0.72 (U)				
8/31/2022	0.937	0.513 (U)	0.962						
9/1/2022						1.23 (U)	0.52 (U)	0.0906 (U)	0.596 (U)
2/7/2023	1.41			3.99					
2/8/2023		1.56				0.4 (U)	0.361 (U)	0.852 (U)	0.817
2/9/2023			1.12		0.0815 (U)				
8/15/2023	0.608 (U)	0.325 (U)	1.14	3.44	0.846 (U)				
8/16/2023						0.502 (U)	0.617 (U)	1.23	1.08 (U)
2/20/2024	0.701 (U)	0.437 (U)	1.1 (U)	2.8	0.63 (U)				
2/21/2024						0.345 (U)			
2/22/2024							0.416 (U)	0.752 (U)	1.05 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	0.926 (U)
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	0.773 (U)
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	0.661 (U)
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	1.27
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	1.02
10/11/2017	
10/12/2017	1.58
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	1.71
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	2.8
9/24/2018	
9/26/2018	
9/27/2018	
3/4/2019	
3/6/2019	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-43
4/3/2019	
4/4/2019	
8/21/2019	3.16
8/22/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/8/2019	3.65
2/12/2020	
3/24/2020	
3/25/2020	3.04
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	4.75
2/8/2021	
2/9/2021	6.38
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	6.02
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	1.54
2/8/2022	3.11
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	4.16
2/7/2023	
2/8/2023	3.73
2/9/2023	
8/15/2023	
8/16/2023	4.92
2/20/2024	
2/21/2024	
2/22/2024	4.56

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/1/2016					0.321 (U)	0.42			
6/2/2016				0.329 (U)				0.0652 (U)	2.51
7/25/2016						1.83		3.01	
7/26/2016				1.51	0.707 (U)				3.82
8/30/2016		1.09							
8/31/2016			1.2						
9/1/2016	1.2								
9/13/2016					1.22	0.841			
9/14/2016							0.98 (U)		
9/15/2016				1.04 (U)					4.24
9/19/2016								0.871 (U)	
11/1/2016					0.805 (U)			0.307 (U)	3.92
11/2/2016				0.496 (U)					
11/4/2016						0.166 (U)	0.277 (U)		
11/15/2016	0.645 (U)								
11/28/2016			0.264 (U)						
12/15/2016		1 (U)					0.071 (U)		
1/10/2017				0.376 (U)					
1/11/2017					0.705 (U)				2.52
1/16/2017						0	0.44 (U)	0.284 (U)	
2/21/2017								0.503 (U)	
2/22/2017			1.06 (U)						
2/24/2017		0.504 (U)							
2/27/2017	0.244 (U)								
3/1/2017									
3/2/2017					0.251 (U)	0.504 (U)			3.13
3/3/2017							0.448 (U)		
3/8/2017				0.0745 (U)					
4/26/2017				0.282 (U)				0.204 (U)	2.35
4/27/2017					1.08	0.593 (U)			
4/28/2017							0.548 (U)		
5/8/2017		0.455 (U)	0.187 (U)						
5/9/2017	0.519 (U)								
5/26/2017							0 (U)		
6/27/2017					1.02 (U)	0.657 (U)			
6/28/2017							0.608 (U)		2.6
6/30/2017				0.994				0.738 (U)	
7/11/2017		0.471 (U)							
7/13/2017	0.5 (U)								
7/17/2017			1.42						
10/10/2017		0.649 (U)							
10/11/2017	1.41								
10/16/2017			1.17						
2/19/2018			1.58 (D)						
3/27/2018				0.189 (U)		0.39 (U)		0.31 (U)	
3/28/2018							0.412 (U)		3
3/29/2018					0.503 (U)				
4/2/2018		0.512 (U)							
4/4/2018	0.442 (U)								
6/5/2018					0.771 (U)				
6/6/2018						2.8			
6/7/2018							0.73 (U)		2.79

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/8/2018				0.218 (U)					
6/11/2018								0.608 (U)	
8/6/2018			0.196 (U)						
9/19/2018		0.789 (U)							
9/20/2018	1.14 (U)								
10/1/2018				1.24	0.783 (U)	1.06 (U)	0.756 (U)		3.14
10/2/2018								0.97 (U)	
2/26/2019				0.202 (U)				0.524 (U)	
2/27/2019					1.21 (U)	0.637 (U)	0.635 (U)		3.79
3/28/2019					1.13 (U)	0.125 (U)			
3/29/2019				0 (U)			0.224 (U)		
4/1/2019								1.02 (U)	4.33
8/19/2019			1.39						
8/20/2019		2.44							
9/24/2019					1.22 (U)	0.949 (U)	0.429 (U)		
9/25/2019				0.707 (U)				1.02 (U)	4.2
9/26/2019	1.16 (U)								
10/8/2019		1.72	1.32 (U)						
2/10/2020					1.41	1.25 (U)			
2/11/2020							0.817 (U)		3.87
2/12/2020				1.07 (U)				0.301 (U)	
3/17/2020		1.22 (U)	1 (U)						
3/18/2020				0.207 (U)		0.458 (U)			
3/19/2020					1.1		0.715 (U)	1	3.96
3/25/2020	1.2 (U)								
8/26/2020			1.75						
8/27/2020		1.26 (U)							
9/22/2020		1.06 (U)	0.688 (U)						
9/23/2020					1.35 (U)	0.00884 (U)	0.565 (U)		4.14
9/24/2020	1.57 (U)							0.684 (U)	
9/25/2020				0.603 (U)					
2/9/2021	0.137 (U)								
2/10/2021				0.353 (U)			1.04 (U)		3.65
2/11/2021								0.678 (U)	
2/12/2021					0.366 (U)	0.458 (U)			
3/1/2021		1.2						0.412 (U)	
3/2/2021			0.948 (U)	0.71 (U)					
3/3/2021					0.492 (U)	0.105 (U)	0.459 (U)		3.58
3/4/2021	0.579 (U)								
8/19/2021		1.07 (U)		0.786 (U)	1.17 (U)	0.0732 (U)		0.234 (U)	3.53
8/20/2021			0.528 (U)						
8/27/2021							0.409 (U)		
9/1/2021	0.686 (U)								
2/8/2022	0.201 (U)	0.4 (U)	0.462 (U)						
2/9/2022					1.19	0.422 (U)	0.894 (U)		3.28
2/10/2022				0 (U)				0.268 (U)	
8/30/2022			1.52		0.827		0.699 (U)		
8/31/2022	0.823 (U)	0.714 (U)		0.421 (U)		0.49 (U)		0.506 (U)	2.12
2/7/2023			1		0.92 (U)	0.661 (U)	0.536 (U)		
2/8/2023		0.375 (U)		0.83 (U)				0.417 (U)	2.74
2/9/2023	0.667 (U)								
8/15/2023		0.947 (U)	0.833 (U)	0.652 (U)	0.935 (U)	0.726 (U)	0.611 (U)		2.79

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
8/16/2023	0.982 (U)							0.895 (U)	
2/20/2024		0.939 (U)	0.978 (U)		0.274 (U)	0.798 (U)	0.784 (U)	0.375 (U)	2.56
2/21/2024	0.595 (U)								
2/23/2024				0.736 (U)					

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/1/2016	0.896
6/2/2016	
7/25/2016	2.28
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	0.821 (U)
9/15/2016	
9/19/2016	
11/1/2016	0.585 (U)
11/2/2016	
11/4/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	1.22
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	0.877 (U)
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	0.672 (U)
4/27/2017	
4/28/2017	
5/8/2017	
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	1.07 (U)
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	0.65 (U)
3/29/2018	
4/2/2018	
4/4/2018	
6/5/2018	
6/6/2018	
6/7/2018	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/8/2018	1.89
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	1.58
10/2/2018	
2/26/2019	
2/27/2019	3.67
3/28/2019	
3/29/2019	
4/1/2019	2.28
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	1.6
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	1.85
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	2.2
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	1.14 (U)
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	2.46
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	2.03
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	1.34
9/1/2021	
2/8/2022	
2/9/2022	1.91
2/10/2022	
8/30/2022	
8/31/2022	1.33
2/7/2023	
2/8/2023	1.18
2/9/2023	
8/15/2023	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-3I (bg)
8/16/2023	1.87
2/20/2024	1.09 (U)
2/21/2024	
2/23/2024	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50
6/8/2016							1.06	
8/1/2016							0.467 (U)	
9/2/2016			0.873 (U)					
9/20/2016							0.853 (U)	
9/22/2016			0.667 (U)					
9/29/2016			1.63					
10/6/2016			0.641 (U)					
11/8/2016							0.433 (U)	
11/14/2016			0.0451 (U)					
1/17/2017							0.0759 (U)	
2/28/2017			1.34 (U)					
3/8/2017							0.479 (U)	
5/2/2017							0.506 (U)	
5/9/2017			0.309 (U)					
7/7/2017							0.713 (U)	
7/13/2017			0.618 (U)					
10/12/2017		1.83						
11/21/2017		1.33						
1/11/2018		1.53						
2/20/2018		2.75						
3/30/2018			0.721 (U)				0.409 (U)	
4/3/2018		1.47						
6/12/2018							0.728 (U)	
6/13/2018			1.04 (U)					
6/29/2018		1.69						
8/6/2018		1.69						
9/24/2018		2.26						
9/26/2018			0.604 (U)				0.981	
10/16/2018	0.363 (U)							
3/5/2019							0.837 (U)	
3/6/2019			0.919 (U)					
4/4/2019			1.05 (U)					
4/9/2019							0.502 (U)	
9/26/2019			0.979 (U)				0.964 (U)	
3/25/2020	0.197 (U)		1.22 (U)					
3/26/2020							0.511 (U)	
9/23/2020							0.786 (U)	
9/24/2020	1.07 (U)							
9/25/2020		1.68 (U)						
10/7/2020			1.58					
2/9/2021		1.52					0.678 (U)	
2/10/2021	0.546 (U)		0.466 (U)					
3/3/2021							0.415 (U)	
3/4/2021	0.397 (U)	1.49	0.0671 (U)					
8/25/2021		1.41						
9/1/2021	0.696 (U)						0.444 (U)	
9/3/2021			0.622 (U)	3.18				
11/4/2021					0.721 (U)			
2/10/2022	1.25 (U)	0.81 (U)				0.964 (U)	0.846 (U)	
2/11/2022			0.395 (U)	0.815 (U)	1.52			
8/31/2022	0.326 (U)							
9/1/2022		0.463 (U)	0.189 (U)	2.54	0.225 (U)	0.389 (U)		

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50
2/8/2023		0.742 (U)		2.37	0.218 (U)			
2/9/2023	0.718 (U)		0.326 (U)			0.467 (U)		
2/10/2023							0.137 (U)	
8/16/2023	0.643 (U)		0.319 (U)	2.05		0.924 (U)	0.889 (U)	
8/17/2023		1.9			1.88			1.09 (U)
2/21/2024		0.789 (U)		1.78	0.689 (U)			
2/22/2024						0.894 (U)		0.871 (U)
2/23/2024	0.824 (U)		0.536 (U)				0.311 (U)	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							<0.1	<0.1	
6/7/2016						<0.1			<0.1
7/27/2016						<0.1	<0.1	<0.1	<0.1
7/28/2016									
9/16/2016						<0.1		<0.1	
9/19/2016							<0.1		<0.1
11/2/2016									<0.1
11/3/2016						<0.1	<0.1	<0.1	
1/11/2017						<0.1	<0.1	<0.1	
1/13/2017									<0.1
3/1/2017							<0.1	<0.1	
3/2/2017						<0.1			
3/6/2017									<0.1
4/26/2017							<0.1	<0.1	<0.1
5/2/2017						<0.1			
6/28/2017							<0.1	<0.1	
6/29/2017						<0.1			<0.1
10/3/2017									
10/4/2017						<0.1		<0.1	<0.1
10/5/2017							<0.1		
3/28/2018						<0.1	<0.1	<0.1	
3/29/2018									<0.1
6/5/2018									
6/6/2018									<0.1
6/7/2018							<0.1		
6/11/2018						<0.1		<0.1	
9/25/2018						<0.1	<0.1	<0.1	<0.1
10/16/2018	<0.1								
3/5/2019						<0.1		<0.1	<0.1
3/6/2019							<0.1		
4/2/2019						<0.1			
4/3/2019							<0.1	<0.1	<0.1
9/24/2019									
9/25/2019						<0.1			<0.1
9/26/2019	<0.1						<0.1	<0.1	
2/11/2020						<0.1	<0.1	<0.1	
2/12/2020									<0.1
3/24/2020						<0.1	<0.1	<0.1	<0.1
3/25/2020	<0.1								
9/23/2020		<0.1		<0.1		<0.1	<0.1	<0.1	
9/24/2020	<0.1				<0.1				<0.1
2/9/2021	<0.1	<0.1		0.14	<0.1		<0.1	<0.1	<0.1
3/3/2021	<0.1	<0.1		0.14		<0.1	<0.1	<0.1	<0.1
3/4/2021					<0.1				
8/25/2021				<0.1					
8/26/2021					<0.1			<0.1	
8/27/2021						<0.1	<0.1		<0.1
9/1/2021	<0.1	<0.1							
2/9/2022						<0.1	<0.1	<0.1	<0.1
2/10/2022	<0.1	<0.1	<0.1	<0.1	<0.1				
8/30/2022						<0.1	<0.1	<0.1	
8/31/2022	<0.1								<0.1

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
9/1/2022		0.063 (J)	0.091 (J)	0.078 (J)	0.055 (J)				
2/7/2023						<0.1	<0.1	<0.1	<0.1
2/8/2023		0.061 (J)		0.079 (J)	0.05 (J)				
2/9/2023	<0.1		0.079 (J)						
8/15/2023						<0.1	<0.1	<0.1	<0.1
8/16/2023	<0.1		0.081 (J)	<0.1	<0.1				
8/17/2023		<0.1							
2/20/2024						<0.1	<0.1		<0.1
2/21/2024			0.066 (J)						
2/22/2024		0.05 (J)		0.061 (J)	<0.1				
2/23/2024	<0.1							<0.1	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	<0.3
7/27/2016	
7/28/2016	0.02 (J)
9/16/2016	
9/19/2016	0.02 (J)
11/2/2016	
11/3/2016	<0.3
1/11/2017	
1/13/2017	<0.3
3/1/2017	
3/2/2017	
3/6/2017	<0.3
4/26/2017	0.04 (J)
5/2/2017	
6/28/2017	
6/29/2017	<0.3
10/3/2017	<0.3
10/4/2017	
10/5/2017	
3/28/2018	
3/29/2018	<0.3
6/5/2018	0.13 (J)
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	0 (J)
10/16/2018	
3/5/2019	0.32
3/6/2019	
4/2/2019	0.12 (J)
4/3/2019	
9/24/2019	0.15 (J)
9/25/2019	
9/26/2019	
2/11/2020	
2/12/2020	0.1 (J)
3/24/2020	0.081 (J)
3/25/2020	
9/23/2020	
9/24/2020	0.079 (J)
2/9/2021	0.092 (J)
3/3/2021	
3/4/2021	0.091 (J)
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	0.11
2/9/2022	0.1
2/10/2022	
8/30/2022	0.1
8/31/2022	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-21I (bg)
9/1/2022	
2/7/2023	0.1
2/8/2023	
2/9/2023	
8/15/2023	0.061 (J)
8/16/2023	
8/17/2023	
2/20/2024	0.083 (J)
2/21/2024	
2/22/2024	
2/23/2024	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.1	0.11 (J)	<0.1				
6/7/2016						<0.1			
7/26/2016			<0.1	0.05 (J)	<0.1				
7/28/2016						0.03 (J)			
8/30/2016									0.02 (J)
8/31/2016									
9/14/2016			<0.1	0.04 (J)	<0.1				
9/20/2016						<0.1			
11/2/2016			<0.1	<0.1					
11/4/2016					<0.1				
11/8/2016						<0.1			
11/16/2016									0.07 (J)
1/12/2017				0.04 (J)	<0.1				
1/13/2017			<0.1						
1/16/2017						<0.1			
2/24/2017									
2/27/2017									0.06 (J)
3/6/2017			<0.1						
3/7/2017				<0.1	<0.1				
3/9/2017						<0.1			
5/1/2017			<0.1	<0.1					
5/2/2017					<0.1	<0.1			
5/10/2017									<0.1
6/27/2017				<0.1	<0.1				
6/29/2017			<0.1						
7/10/2017						<0.1			
7/11/2017									<0.1
10/3/2017				<0.1	<0.1				
10/5/2017			<0.1						
10/11/2017	<0.1					<0.1			
10/12/2017		<0.1					<0.1	<0.1	<0.1
11/20/2017	<0.1	<0.1					0.2 (J)		
11/21/2017								<0.1	
1/10/2018		<0.1							
1/11/2018	<0.1							<0.1	
1/12/2018							0.21 (J)		
2/19/2018		<0.1						<0.1	
2/20/2018	0.23						<0.1		
3/29/2018			<0.1	<0.1	<0.1				
3/30/2018						<0.1			
4/3/2018	<0.1	<0.1					0.41	<0.1	
4/4/2018									<0.1
6/6/2018				0.15 (J)					
6/7/2018			<0.1		<0.1				
6/12/2018						<0.1			
6/27/2018								<0.1	
6/28/2018	<0.1	<0.1					0.43		
8/7/2018	0.048 (J)	<0.1					<0.1	0.11 (J)	
9/20/2018									0.041 (J)
9/24/2018	<0.1	<0.1					0.034 (J)	<0.1	
9/26/2018			<0.1	<0.1	<0.1				
9/27/2018						<0.1			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
3/4/2019			<0.1	0.19 (J)	<0.1				
3/6/2019						<0.1			
3/26/2019		<0.1							
3/27/2019	<0.1						0.24 (J)		<0.1
3/28/2019								0.1 (J)	
4/3/2019			<0.1	0.047 (J)	<0.1				
4/4/2019						0.049 (J)			
8/21/2019	<0.1	<0.1							
8/22/2019							<0.1	<0.1	<0.1
9/24/2019				0.05 (J)	<0.1				
9/25/2019			<0.1						
9/27/2019						0.12 (J)			
10/9/2019	<0.1	<0.1					<0.1	<0.1	<0.1
2/12/2020	<0.1	<0.1	<0.1	<0.1	<0.1				
3/24/2020		<0.1		<0.1	<0.1				
3/25/2020	<0.1		<0.1				<0.1	<0.1	<0.1
3/26/2020						<0.1			
9/22/2020			<0.1	0.056 (J)	<0.1				
9/24/2020	<0.1	<0.1				<0.1			<0.1
9/25/2020							<0.1	<0.1	
2/8/2021				0.055 (J)	<0.1				
2/9/2021			<0.1			<0.1	<0.1		
2/10/2021	<0.1	<0.1						<0.1	<0.1
3/2/2021				<0.1	<0.1				
3/3/2021			<0.1						
3/4/2021	<0.1	<0.1				<0.1	<0.1	<0.1	<0.1
8/25/2021						<0.1			<0.1
8/26/2021	0.063 (J)		<0.1	0.061 (J)	<0.1		<0.1	<0.1	
9/3/2021		<0.1							
9/27/2021									
2/8/2022	0.052 (J)	<0.1						<0.1	
2/10/2022				0.055 (J)	<0.1	<0.1	<0.1		<0.1
2/11/2022			<0.1						
8/30/2022				0.085 (J)	<0.1				
8/31/2022	0.065 (J)	0.05 (J)	0.061 (J)						
9/1/2022						0.057 (J)	<0.1	<0.1	0.053 (J)
2/7/2023	0.076 (J)			0.082 (J)					
2/8/2023		<0.1				<0.1	<0.1	<0.1	0.08 (J)
2/9/2023			0.067 (J)		<0.1				
8/15/2023	<0.1	<0.1	<0.1	<0.1	<0.1				
8/16/2023						<0.1	<0.1	<0.1	<0.1
2/20/2024	0.063 (J)	<0.1	0.059 (J)	0.076 (J)	<0.1				
2/21/2024						<0.1			
2/22/2024							<0.1	<0.1	<0.1

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	0.12 (J)
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	0.2 (J)
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	0.21 (J)
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	0.04 (J)
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	0.2 (J)
10/3/2017	
10/5/2017	
10/11/2017	
10/12/2017	0.1 (J)
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	<0.1
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	<0.1
9/24/2018	
9/26/2018	
9/27/2018	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-43
3/4/2019	
3/6/2019	
3/26/2019	
3/27/2019	
3/28/2019	0.078 (J)
4/3/2019	
4/4/2019	
8/21/2019	0.062 (J)
8/22/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	<0.1
2/12/2020	
3/24/2020	
3/25/2020	0.073 (J)
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	<0.1
2/8/2021	
2/9/2021	0.058 (J)
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	0.063 (J)
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	0.1
2/8/2022	0.066 (J)
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	0.091 (J)
2/7/2023	
2/8/2023	0.11
2/9/2023	
8/15/2023	
8/16/2023	0.062 (J)
2/20/2024	
2/21/2024	
2/22/2024	0.091 (J)

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/1/2016					0.12 (J)	<0.1			
6/2/2016				<0.1				<0.1	0.62
7/25/2016						0.06 (J)		0.06 (J)	
7/26/2016				0.02 (J)	0.08 (J)				0.49
8/30/2016		0.09 (J)							
8/31/2016			0.14 (J)						
9/1/2016	0.09 (J)								
9/13/2016					0.11 (J)	<0.1			
9/14/2016							0.08 (J)		
9/15/2016				<0.1					0.54
9/19/2016								<0.1	
11/1/2016					<0.3			<0.1	0.68
11/2/2016				<0.1					
11/4/2016						<0.1	<0.3		
11/14/2016		0.18 (J)							
11/15/2016	0.16 (J)								
11/28/2016			0.12 (J)						
12/15/2016							0.06 (J)		
1/10/2017				<0.1					
1/11/2017					0.05 (J)				0.49
1/16/2017						<0.1	0.1 (J)	<0.1	
2/21/2017								<0.1	
2/22/2017			0.09 (J)						
2/24/2017		0.05 (J)							
2/27/2017	0.06 (J)								
3/1/2017									
3/2/2017					<0.3	<0.1			0.48
3/3/2017							<0.3		
3/8/2017				<0.1					
4/26/2017				<0.1				<0.1	0.48
4/27/2017					0.04 (J)	0.01 (J)			
4/28/2017							0.06 (J)		
5/8/2017		0.03 (J)	0.05 (J)						
5/9/2017	0.05 (J)								
5/26/2017							0.09 (J)		
6/27/2017					<0.3	<0.1			
6/28/2017							0.11 (J)		0.47
6/30/2017				<0.1				<0.1	
7/11/2017		0.07 (J)							
7/13/2017	<0.1								
7/17/2017			0.14 (J)						
10/3/2017					<0.3	<0.1	<0.3		
10/4/2017								<0.1	<0.47
10/5/2017				<0.1					
10/10/2017		<0.1							
10/11/2017	0.14 (J)								
10/16/2017			0.12 (J)						
2/19/2018			0.17						
3/27/2018				<0.1		<0.1		<0.1	
3/28/2018							0.31		0.56
3/29/2018					<0.3				
4/2/2018		<0.1							

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
4/4/2018	<0.1								
6/5/2018					0.055 (J)				
6/6/2018						<0.1			
6/7/2018							0.11 (J)		0.48
6/8/2018				<0.1					
6/11/2018								<0.1	
8/6/2018			0.087 (J)						
9/19/2018		<0.1							
9/20/2018	<0.1								
10/1/2018				<0.1	<0.3	<0.1	<0.3		0.44
10/2/2018								<0.1	
2/25/2019			0.14 (J)						
2/26/2019				<0.1				<0.1	
2/27/2019					0.052 (J)	<0.1	0.12 (J)		0.53
3/27/2019		0.081 (J)							
3/28/2019	<0.1				0.036 (J)	<0.1			
3/29/2019				<0.1			0.13 (J)		
4/1/2019								<0.1	0.45
6/12/2019			0.12 (J)						
8/19/2019			<0.3						
8/20/2019		<0.1							
9/24/2019					0.063 (J)	<0.1	0.081 (J)		
9/25/2019				<0.1				<0.1	0.46
9/26/2019	0.09 (J)								
10/8/2019		0.034 (J)	0.052 (J)						
2/10/2020					0.061 (J)	<0.1			
2/11/2020							0.075 (J)		
2/12/2020				<0.1				<0.1	0.4
3/17/2020		<0.1	0.053 (J)						
3/18/2020				<0.1		<0.1			
3/19/2020					0.064 (J)		0.093 (J)	<0.1	0.51
3/25/2020	<0.1								
8/26/2020			0.068 (J)						
8/27/2020		<0.1							
9/22/2020		<0.1	0.058 (J)						
9/23/2020					0.058 (J)	<0.1	0.08 (J)		0.47
9/24/2020	<0.1							<0.1	
9/25/2020				<0.1					
2/9/2021	<0.1								
2/10/2021				<0.1			0.094 (J)		0.43
2/11/2021								<0.1	
2/12/2021					0.068 (J)	<0.1			
3/1/2021		<0.1						<0.1	
3/2/2021			0.073 (J)	<0.1					
3/3/2021					0.078 (J)	<0.1	0.085 (J)		0.44
3/4/2021	<0.1								
8/19/2021		<0.1		<0.1	0.074 (J)	<0.1		<0.1	0.47
8/20/2021			0.06 (J)						
8/27/2021							0.12		
9/1/2021	<0.1								
2/8/2022	<0.1	<0.1	0.064 (J)						
2/9/2022					0.057 (J)	<0.1	0.094 (J)		0.43

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
2/10/2022				<0.1					
2/11/2022								<0.1	
8/30/2022			0.086 (J)		0.093 (J)		0.12		
8/31/2022	<0.1	0.065 (J)		0.053 (J)		0.065 (J)		0.06 (J)	0.42
2/7/2023			0.095 (J)		0.093 (J)	0.071 (J)	0.12		
2/8/2023		0.077 (J)		0.059 (J)				0.064 (J)	0.56
2/9/2023	<0.1								
8/15/2023		<0.1	0.065 (J)	<0.1	0.057 (J)	<0.1	0.081 (J)		0.42
8/16/2023	<0.1							<0.1	
2/20/2024		0.073 (J)	0.094 (J)		0.086 (J)	<0.1	0.1	0.051 (J)	0.45
2/21/2024	<0.1								
2/23/2024				<0.1					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/1/2016	0.15 (J)
6/2/2016	
7/25/2016	0.14 (J)
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	0.18 (J)
9/15/2016	
9/19/2016	
11/1/2016	<0.1
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	0.09 (J)
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	<0.1
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	0.08 (J)
4/27/2017	
4/28/2017	
5/8/2017	
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	0.12 (J)
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/3/2017	
10/4/2017	<0.1
10/5/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	<0.1
3/29/2018	
4/2/2018	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-3I (bg)
4/4/2018	
6/5/2018	
6/6/2018	
6/7/2018	
6/8/2018	0.2 (J)
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	<0.1
10/2/2018	
2/25/2019	
2/26/2019	
2/27/2019	0.13 (J)
3/27/2019	
3/28/2019	
3/29/2019	
4/1/2019	0.1 (J)
6/12/2019	
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	0.1 (J)
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	0.094 (J)
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	0.11 (J)
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	0.098 (J)
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	<0.1
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	0.1
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	0.12
9/1/2021	
2/8/2022	
2/9/2022	0.097 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-3I (bg)
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	0.13
2/7/2023	
2/8/2023	0.16
2/9/2023	
8/15/2023	
8/16/2023	0.11
2/20/2024	0.12
2/21/2024	
2/23/2024	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50
6/8/2016							<0.1	
8/1/2016							<0.1	
9/2/2016			0.05 (J)					
9/20/2016							<0.1	
11/8/2016							<0.1	
11/14/2016			0.18 (J)					
1/17/2017							<0.1	
2/28/2017			0.09 (J)					
3/8/2017							<0.1	
5/2/2017							<0.1	
5/9/2017			0.009 (J)					
7/7/2017							<0.1	
7/13/2017			<0.1					
9/22/2017			0.09 (J)					
9/29/2017			<0.1					
10/5/2017							<0.1	
10/6/2017			<0.1					
10/11/2017			<0.1					
10/12/2017		<0.1						
11/21/2017		0.26 (J)						
1/11/2018		<0.1						
2/20/2018		0.45						
3/30/2018			<0.1				<0.1	
4/3/2018		0.31						
6/12/2018							<0.1	
6/13/2018			<0.1					
6/29/2018		<0.1						
8/6/2018		0.23 (J)						
9/24/2018		<0.1						
9/26/2018			<0.1				<0.1	
10/16/2018	<0.1							
3/5/2019							<0.1	
3/6/2019			<0.1					
4/4/2019			0.043 (J)				0.033 (J)	
9/26/2019	<0.1		0.094 (J)				0.098 (J)	
3/25/2020	<0.1		<0.1					
3/26/2020							<0.1	
9/23/2020							<0.1	
9/24/2020	<0.1							
9/25/2020		<0.1						
10/7/2020			<0.1					
2/9/2021		<0.1					<0.1	
2/10/2021	<0.1		<0.1					
3/3/2021							<0.1	
3/4/2021	<0.1	<0.1	<0.1					
8/25/2021		<0.1						
9/1/2021	<0.1						<0.1	
9/3/2021			<0.1	0.15				
2/10/2022	<0.1	<0.1				0.1	<0.1	
2/11/2022			<0.1	0.17	0.1			
8/31/2022	<0.1							
9/1/2022		<0.1	<0.1	0.35	0.11	0.13		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50
2/8/2023		<0.1		0.2	0.07 (J)			
2/9/2023	<0.1		<0.1			0.13		
2/10/2023							0.051 (J)	
8/16/2023	<0.1		<0.1	0.23		0.097 (J)	<0.1	
8/17/2023		<0.1			0.059 (J)			0.12
12/20/2023								0.14
2/21/2024		<0.1		0.21	0.053 (J)			
2/22/2024						0.14		0.14
2/23/2024	<0.1		<0.1				<0.1	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							<0.001	<0.001	
6/7/2016						<0.001			<0.001
7/27/2016						<0.001	<0.001	<0.001	<0.001
7/28/2016									
9/16/2016						<0.001		<0.001	
9/19/2016							<0.001		<0.001
11/2/2016									0.0013 (J)
11/3/2016						<0.001	<0.001	<0.001	
1/11/2017						<0.001	<0.001	<0.001	
1/13/2017									<0.001
3/1/2017							<0.001	<0.001	
3/2/2017						8E-05 (J)			
3/6/2017									<0.001
4/26/2017							<0.001	<0.001	<0.001
5/2/2017						<0.001			
6/28/2017							<0.001	0.0001 (J)	
6/29/2017						8E-05 (J)			<0.001
3/28/2018						<0.001	<0.001	<0.001	
3/29/2018									<0.001
3/5/2019						<0.001		<0.001	<0.001
3/6/2019							<0.001		
4/2/2019						<0.001			
4/3/2019							<0.001	<0.001	<0.001
9/24/2019									
9/25/2019						<0.001			<0.001
9/26/2019	<0.001						<0.001	<0.001	
2/11/2020						<0.001	<0.001	<0.001	
2/12/2020									<0.001
3/24/2020						6.4E-05 (J)	7.1E-05 (J)	5.4E-05 (J)	0.00011 (J)
3/25/2020	<0.001								
9/23/2020		<0.001		0.00028 (J)		4.1E-05 (J)	6E-05 (J)	9.7E-05 (J)	
9/24/2020	<0.001				0.00011 (J)				9.2E-05 (J)
2/9/2021	0.00019 (J)	0.00011 (J)		0.00054 (J)	7.3E-05 (J)		5E-05 (J)	9.4E-05 (J)	6.3E-05 (J)
3/3/2021	<0.001	8E-05 (J)		9.6E-05 (J)		<0.001	<0.001	7.6E-05 (J)	4.5E-05 (J)
3/4/2021					4.1E-05 (J)				
8/25/2021				<0.001					
8/26/2021					<0.001			<0.001	
8/27/2021						<0.001	<0.001		<0.001
9/1/2021	<0.001	<0.001							
2/9/2022						<0.001	<0.001	<0.001	<0.001
2/10/2022	<0.001	<0.001	<0.001	<0.001	<0.001				
8/30/2022						<0.001	<0.001	<0.001	
8/31/2022	<0.001								<0.001
9/1/2022		<0.001	<0.001	<0.001	<0.001				
2/7/2023						<0.001	<0.001	<0.001	<0.001
2/8/2023		<0.001		<0.001	<0.001				
2/9/2023	<0.001		<0.001						
8/15/2023						<0.001	<0.001	<0.001	<0.001
8/16/2023	<0.001		<0.001	<0.001	<0.001				
8/17/2023		<0.001							
2/20/2024						<0.001	<0.001		<0.001
2/21/2024			<0.001						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
2/22/2024		<0.001		<0.001	<0.001				
2/23/2024	<0.001							<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	<0.001
7/27/2016	
7/28/2016	<0.001
9/16/2016	
9/19/2016	<0.001
11/2/2016	
11/3/2016	<0.001
1/11/2017	
1/13/2017	<0.001
3/1/2017	
3/2/2017	
3/6/2017	<0.001
4/26/2017	<0.001
5/2/2017	
6/28/2017	
6/29/2017	<0.001
3/28/2018	
3/29/2018	<0.001
3/5/2019	<0.001
3/6/2019	
4/2/2019	<0.001
4/3/2019	
9/24/2019	<0.001
9/25/2019	
9/26/2019	
2/11/2020	
2/12/2020	<0.001
3/24/2020	<0.001
3/25/2020	
9/23/2020	
9/24/2020	4.6E-05 (J)
2/9/2021	<0.001
3/3/2021	
3/4/2021	<0.001
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	<0.001
2/9/2022	<0.001
2/10/2022	
8/30/2022	<0.001
8/31/2022	
9/1/2022	
2/7/2023	<0.001
2/8/2023	
2/9/2023	
8/15/2023	<0.001
8/16/2023	
8/17/2023	
2/20/2024	<0.001
2/21/2024	

Time Series

Constituent: Lead (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-21I (bg)
2/22/2024	
2/23/2024	

Time Series

Constituent: Lead (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.001	<0.001	<0.001				
6/7/2016						0.00044 (J)			
7/26/2016			<0.001	<0.001	<0.001				
7/28/2016						<0.001			
8/30/2016									<0.001
8/31/2016									
9/14/2016			<0.001	<0.001	<0.001				
9/20/2016						<0.001			
11/2/2016			<0.001	<0.001					
11/4/2016					<0.001				
11/8/2016						<0.001			
11/16/2016									0.0002 (J)
1/12/2017				<0.001	<0.001				
1/13/2017			<0.001						
1/16/2017						<0.001			
2/24/2017									
2/27/2017									<0.001
3/6/2017			<0.001						
3/7/2017				0.0001 (J)	7E-05 (J)				
3/9/2017						<0.001			
5/1/2017			<0.001	<0.001					
5/2/2017					<0.001	<0.001			
5/10/2017									9E-05 (J)
6/27/2017				<0.001	<0.001				
6/29/2017			<0.001						
7/10/2017						<0.001			
7/11/2017									<0.001
10/11/2017	0.0001 (J)								
10/12/2017		9E-05 (J)					0.0001 (J)	<0.001	<0.001
11/20/2017	<0.001	<0.001					0.0001 (J)		
11/21/2017								<0.001	
1/10/2018		<0.001							
1/11/2018	0.0002 (J)							7E-05 (J)	
1/12/2018							0.0001 (J)		
2/19/2018		<0.001						<0.001	
2/20/2018	<0.001						<0.001		
3/29/2018			<0.001	<0.001	<0.001				
3/30/2018						<0.001			
4/3/2018	<0.001	<0.001					<0.001	<0.001	
4/4/2018									<0.001
6/27/2018								0.0011 (J)	
6/28/2018	<0.001	<0.001					<0.001		
8/7/2018	<0.001	<0.001					<0.001	<0.001	
9/20/2018									<0.001
9/24/2018	<0.001	<0.001					<0.001	<0.001	
3/4/2019			<0.001	<0.001	<0.001				
3/6/2019						<0.001			
4/3/2019			<0.001	<0.001	<0.001				
4/4/2019						<0.001			
8/21/2019	<0.001	<0.001							
8/22/2019							<0.001	6.7E-05 (J)	<0.001
9/24/2019				<0.001	9E-05 (J)				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
9/25/2019			<0.001						
9/27/2019						0.00013 (J)			
10/9/2019	<0.001	<0.001					<0.001	0.00012 (J)	<0.001
2/12/2020	<0.001	<0.001	<0.001	<0.001	<0.001				
3/24/2020		<0.001		5.4E-05 (J)	6.8E-05 (J)				
3/25/2020	5.1E-05 (J)		<0.001				<0.001	<0.001	4.7E-05 (J)
3/26/2020						<0.001			
9/22/2020			<0.001	4.5E-05 (J)	4.2E-05 (J)				
9/24/2020	<0.001	3.8E-05 (J)				4.6E-05 (J)			<0.001
9/25/2020							<0.001	<0.001	
2/8/2021				0.00013 (J)	3.7E-05 (J)				
2/9/2021			<0.001			<0.001	<0.001		
2/10/2021	<0.001	<0.001						0.0002 (J)	5.4E-05 (J)
3/2/2021				5.1E-05 (J)	9.2E-05 (J)				
3/3/2021			<0.001						
3/4/2021	<0.001	<0.001				0.00021 (J)	<0.001	<0.001	<0.001
8/25/2021						<0.001			<0.001
8/26/2021	<0.001		<0.001	<0.001	<0.001		<0.001	<0.001	
9/3/2021		<0.001							
9/27/2021									
2/8/2022	<0.001	<0.001						<0.001	
2/10/2022				<0.001	<0.001	<0.001	<0.001		<0.001
2/11/2022			<0.001						
8/30/2022				<0.001	<0.001				
8/31/2022	<0.001	<0.001	<0.001						
9/1/2022						<0.001	<0.001	<0.001	<0.001
2/7/2023	<0.001			<0.001					
2/8/2023		<0.001				<0.001	<0.001	<0.001	<0.001
2/9/2023			<0.001		<0.001				
8/15/2023	<0.001	<0.001	<0.001	<0.001	<0.001				
8/16/2023						<0.001	<0.001	<0.001	<0.001
2/20/2024	<0.001	<0.001	<0.001	<0.001	<0.001				
2/21/2024						<0.001			
2/22/2024							<0.001	<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	<0.001
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	<0.001
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	<0.001
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	8E-05 (J)
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	<0.001
10/11/2017	
10/12/2017	<0.001
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	<0.001
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	<0.001
9/24/2018	
3/4/2019	
3/6/2019	
4/3/2019	
4/4/2019	
8/21/2019	<0.001
8/22/2019	
9/24/2019	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-43
9/25/2019	
9/27/2019	
10/9/2019	<0.001
2/12/2020	
3/24/2020	
3/25/2020	7.5E-05 (J)
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	<0.001
2/8/2021	
2/9/2021	<0.001
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	<0.001
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	<0.001
2/8/2022	<0.001
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	<0.001
2/7/2023	
2/8/2023	<0.001
2/9/2023	
8/15/2023	
8/16/2023	<0.001
2/20/2024	
2/21/2024	
2/22/2024	<0.001

Time Series

Constituent: Lead (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/1/2007			<0.001						
9/11/2007			<0.001						
3/20/2008			<0.001						
8/27/2008			<0.001						
3/3/2009			<0.001						
11/18/2009			<0.001						
3/3/2010			<0.001						
9/8/2010			<0.001						
3/10/2011			<0.001						
9/8/2011			<0.001						
3/5/2012			<0.001						
9/10/2012			<0.001						
2/6/2013			<0.001						
8/12/2013			<0.001						
2/5/2014			<0.001						
8/5/2014			<0.001						
2/4/2015			<0.001						
8/3/2015			<0.001						
2/16/2016			<0.001						
6/1/2016					0.00056 (J)	<0.001			
6/2/2016				<0.001				<0.001	0.00056 (J)
7/25/2016						<0.001		<0.001	
7/26/2016				<0.001	<0.001				0.0001 (J)
8/30/2016		<0.001							
8/31/2016			<0.001						
9/1/2016	<0.001								
9/13/2016					0.0001 (J)	<0.001			
9/14/2016							<0.001		
9/15/2016				<0.001					0.0002 (J)
9/19/2016								<0.001	
11/1/2016					<0.001			<0.001	<0.001
11/2/2016				<0.001					
11/4/2016						<0.001	<0.001		
11/14/2016		<0.001							
11/15/2016	<0.001								
11/28/2016			<0.001						
12/15/2016							<0.001		
1/10/2017				<0.001					
1/11/2017					<0.001				<0.001
1/16/2017						<0.001	<0.001	<0.001	
2/21/2017								<0.001	
2/22/2017			<0.001						
2/24/2017		<0.001							
2/27/2017	<0.001								
3/1/2017									
3/2/2017					0.0001 (J)	<0.001			0.0002 (J)
3/3/2017							<0.001		
3/8/2017				0.0001 (J)					
4/26/2017				<0.001				<0.001	<0.001
4/27/2017					<0.001	<0.001			
4/28/2017							<0.001		
5/8/2017		<0.001	<0.001						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/9/2017	<0.001								
5/26/2017							<0.001		
6/27/2017					<0.001	<0.001			
6/28/2017							<0.001		<0.001
6/30/2017				<0.001				<0.001	
7/11/2017		<0.001							
7/13/2017	<0.001								
7/17/2017			<0.001						
10/10/2017		<0.001							
10/11/2017	<0.001								
10/16/2017			<0.001						
2/19/2018			<0.001						
3/27/2018				<0.001		<0.001		<0.001	
3/28/2018							<0.001		<0.001
3/29/2018					<0.001				
4/2/2018		<0.001							
4/4/2018	<0.001								
8/6/2018			<0.001						
9/19/2018		<0.001							
9/20/2018	<0.001								
2/25/2019			<0.001						
2/26/2019				<0.001				<0.001	
2/27/2019					<0.001	<0.001	<0.001		<0.001
6/12/2019			<0.001						
8/19/2019			<0.001						
8/20/2019		<0.001							
9/26/2019	<0.001								
10/8/2019			<0.001						
2/10/2020					4.9E-05 (J)	<0.001			
2/11/2020							<0.001		
2/12/2020				<0.001				<0.001	<0.001
3/17/2020			<0.001						
3/18/2020				<0.001		<0.001			
3/19/2020					0.00012 (J)		<0.001	<0.001	0.00017 (J)
3/25/2020	5.9E-05 (J)								
8/26/2020			<0.001						
8/27/2020		<0.001							
9/22/2020		<0.001	0.0001 (J)						
9/23/2020					<0.001	0.00021 (J)	0.0011 (J)		<0.001
9/24/2020	<0.001							<0.001	
9/25/2020				<0.001					
2/9/2021	<0.001								
2/10/2021				4.8E-05 (J)			0.00015 (J)		<0.001
2/11/2021								4.6E-05 (J)	
2/12/2021					4.4E-05 (J)	0.00038 (J)			
3/1/2021		<0.001						<0.001	
3/2/2021			<0.001	<0.001					
3/3/2021					5.6E-05 (J)	<0.001	<0.001		<0.001
3/4/2021	<0.001								
8/19/2021		<0.001		<0.001	<0.001	<0.001		<0.001	<0.001
8/20/2021			<0.001						
8/27/2021							<0.001		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
9/1/2021	<0.001								
2/8/2022	<0.001	<0.001	<0.001						
2/9/2022					<0.001	<0.001	<0.001		<0.001
2/10/2022				<0.001					
2/11/2022								<0.001	
8/30/2022			<0.001		<0.001		<0.001		
8/31/2022	<0.001	<0.001		<0.001		<0.001		<0.001	<0.001
2/7/2023			<0.001		<0.001	<0.001	<0.001		
2/8/2023		<0.001		<0.001				<0.001	<0.001
2/9/2023	<0.001								
8/15/2023		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001
8/16/2023	<0.001							<0.001	
2/20/2024		<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
2/21/2024	<0.001								
2/23/2024				<0.001					

Time Series

Constituent: Lead (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/1/2007	
9/11/2007	
3/20/2008	
8/27/2008	
3/3/2009	
11/18/2009	
3/3/2010	
9/8/2010	
3/10/2011	
9/8/2011	
3/5/2012	
9/10/2012	
2/6/2013	
8/12/2013	
2/5/2014	
8/5/2014	
2/4/2015	
8/3/2015	
2/16/2016	
6/1/2016	<0.001
6/2/2016	
7/25/2016	<0.001
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	<0.001
9/15/2016	
9/19/2016	
11/1/2016	<0.001
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	<0.001
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	<0.001
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	<0.001
4/27/2017	
4/28/2017	
5/8/2017	

Time Series

Constituent: Lead (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	<0.001
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	<0.001
3/29/2018	
4/2/2018	
4/4/2018	
8/6/2018	
9/19/2018	
9/20/2018	
2/25/2019	
2/26/2019	
2/27/2019	<0.001
6/12/2019	
8/19/2019	
8/20/2019	
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	<0.001
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	<0.001
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	0.00015 (J)
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	<0.001
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	<0.001
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	<0.001

Time Series

Constituent: Lead (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-3I (bg)
9/1/2021	
2/8/2022	
2/9/2022	<0.001
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	<0.001
2/7/2023	
2/8/2023	<0.001
2/9/2023	
8/15/2023	
8/16/2023	<0.001
2/20/2024	<0.001
2/21/2024	
2/23/2024	

Time Series

Constituent: Lead (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50
6/8/2016							<0.001	
8/1/2016							<0.001	
9/2/2016			0.0017 (J)					
9/20/2016							<0.001	
11/8/2016							<0.001	
11/14/2016			0.0002 (J)					
1/17/2017							<0.001	
2/28/2017			0.0003 (J)					
3/8/2017							<0.001	
5/2/2017							<0.001	
5/9/2017			0.0004 (J)					
7/7/2017							<0.001	
7/13/2017			0.0004 (J)					
9/22/2017			0.0003 (J)					
9/29/2017			0.0002 (J)					
10/6/2017			0.0002 (J)					
10/12/2017		0.0002 (J)						
11/21/2017		0.0002 (J)						
1/11/2018		0.0001 (J)						
2/20/2018		<0.001						
3/30/2018			<0.001				<0.001	
4/3/2018		<0.001						
6/29/2018		<0.001						
8/6/2018		<0.001						
9/24/2018		<0.001						
3/5/2019							<0.001	
3/6/2019			<0.001					
4/4/2019			0.00037 (J)				<0.001	
9/26/2019	<0.001		0.00023 (J)				<0.001	
3/25/2020	<0.001		0.0001 (J)					
3/26/2020							5.3E-05 (J)	
9/23/2020							<0.001	
9/24/2020	<0.001							
9/25/2020		8.5E-05 (J)						
10/7/2020			0.00077 (J)					
2/9/2021		8.8E-05 (J)					0.00036 (J)	
2/10/2021	8.7E-05 (J)		0.00051 (J)					
3/3/2021							<0.001	
3/4/2021	0.00015 (J)	<0.001	0.00025 (J)					
8/25/2021		<0.001						
9/1/2021	<0.001						<0.001	
9/3/2021			<0.001	<0.001				
2/10/2022	<0.001	<0.001				<0.001	<0.001	
2/11/2022			<0.001	<0.001	0.0031			
8/31/2022	<0.001							
9/1/2022		<0.001	<0.001	<0.001	<0.001	<0.001		
2/8/2023		<0.001		<0.001	<0.001			
2/9/2023	<0.001		<0.001			<0.001		
2/10/2023							<0.001	
8/16/2023	<0.001		<0.001	<0.001		<0.001	<0.001	
8/17/2023		<0.001			0.0014			0.0002 (J)
12/20/2023								0.0003 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50
2/21/2024		<0.001		<0.001	<0.001			
2/22/2024						<0.001		0.00021 (J)
2/23/2024	<0.001		<0.001				0.00029 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							0.0088	0.015	
6/7/2016						<0.03			<0.03
7/27/2016						<0.03	0.0087 (J)	0.0049 (J)	<0.03
7/28/2016									
9/16/2016						<0.03		0.0031 (J)	
9/19/2016							0.0043 (J)		<0.03
11/2/2016									<0.03
11/3/2016						<0.03	<0.03	0.0021 (J)	
1/11/2017						0.0035 (J)	0.0052 (J)	0.0025 (J)	
1/13/2017									<0.03
3/1/2017							0.0053 (J)	0.0029 (J)	
3/2/2017						<0.03			
3/6/2017									<0.03
4/26/2017							0.0041 (J)	0.0019 (J)	<0.03
5/2/2017						<0.03			
6/28/2017							0.0039 (J)	0.0016 (J)	
6/29/2017						<0.03			<0.03
3/28/2018						<0.03	0.0041 (J)	0.0024 (J)	
3/29/2018									<0.03
6/5/2018									
6/6/2018									<0.03
6/7/2018							0.0032 (J)		
6/11/2018						<0.03		0.0014 (J)	
9/25/2018						<0.03	0.0036 (J)	0.0016 (J)	<0.03
10/16/2018	0.0052 (J)								
3/5/2019						<0.03		0.0031 (J)	<0.03
3/6/2019							0.0033 (J)		
4/2/2019						<0.03			
4/3/2019							0.0035 (J)	0.0028 (J)	<0.03
9/24/2019									
9/25/2019						<0.03			<0.03
9/26/2019	<0.03						0.0032 (J)	0.0029 (J)	
2/11/2020						<0.03	0.0033 (J)	0.005 (J)	
2/12/2020									<0.03
3/24/2020						0.0034 (J)	0.0033 (J)	0.0035 (J)	<0.03
3/25/2020	0.0011 (J)								
9/23/2020		<0.03		0.03 (J)		<0.03	0.003 (J)	0.0022 (J)	
9/24/2020	0.011 (J)				0.013 (J)				<0.03
2/9/2021	0.021 (J)	<0.03		0.018 (J)	0.016 (J)		0.0031 (J)	0.0019 (J)	<0.03
3/3/2021	0.022 (J)	<0.03		0.02 (J)		<0.03	0.0034 (J)	0.0021 (J)	<0.03
3/4/2021					0.016 (J)				
8/25/2021				0.033					
8/26/2021					0.015 (J)			0.0019 (J)	
8/27/2021						<0.03	0.0032 (J)		<0.03
9/1/2021	0.013 (J)	<0.03							
11/17/2021			0.046 (o)						
12/9/2021			0.042 (R)						
2/9/2022						<0.03	0.0032 (J)	0.0015 (J)	0.00082 (J)
2/10/2022	0.014 (J)	<0.03	0.054	0.036	0.015 (J)				
8/30/2022						<0.03	0.0036 (J)	0.0014 (J)	
8/31/2022	0.021 (J)								<0.03
9/1/2022		<0.03	0.041	0.032	0.013 (J)				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
2/7/2023						<0.03	0.003 (J)	0.0012 (J)	<0.03
2/8/2023		<0.03		0.033	0.014 (J)				
2/9/2023	0.019 (J)		0.048						
8/15/2023						<0.03	<0.03	0.00077 (J)	<0.03
8/16/2023	0.016 (J)		0.04	0.033	0.014 (J)				
8/17/2023		<0.03							
2/20/2024						<0.03	0.0038 (J)		<0.03
2/21/2024			0.047						
2/22/2024		<0.03		0.036	0.014 (J)				
2/23/2024	0.017 (J)							<0.03	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	0.0055
7/27/2016	
7/28/2016	0.0045 (J)
9/16/2016	
9/19/2016	0.0054 (J)
11/2/2016	
11/3/2016	<0.03
1/11/2017	
1/13/2017	0.0062 (J)
3/1/2017	
3/2/2017	
3/6/2017	0.0059 (J)
4/26/2017	0.0054 (J)
5/2/2017	
6/28/2017	
6/29/2017	0.0047 (J)
3/28/2018	
3/29/2018	0.0062 (J)
6/5/2018	0.0061 (J)
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	0.0062 (J)
10/16/2018	
3/5/2019	0.0053 (J)
3/6/2019	
4/2/2019	0.0051 (J)
4/3/2019	
9/24/2019	0.0068 (J)
9/25/2019	
9/26/2019	
2/11/2020	
2/12/2020	0.0065 (J)
3/24/2020	0.0064 (J)
3/25/2020	
9/23/2020	
9/24/2020	0.0069 (J)
2/9/2021	0.006 (J)
3/3/2021	
3/4/2021	0.0062 (J)
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	0.0057 (J)
11/17/2021	
12/9/2021	
2/9/2022	0.0061 (J)
2/10/2022	
8/30/2022	0.0079 (J)
8/31/2022	
9/1/2022	

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-21I (bg)
2/7/2023	0.0059 (J)
2/8/2023	
2/9/2023	
8/15/2023	0.0062 (J)
8/16/2023	
8/17/2023	
2/20/2024	0.0062 (J)
2/21/2024	
2/22/2024	
2/23/2024	

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			0.013	0.0049 (J)	<0.03				
6/7/2016						<0.03			
7/26/2016			0.0123 (J)	0.0063 (J)	0.0027 (J)				
7/28/2016						0.0019 (J)			
8/30/2016									0.0257 (J)
8/31/2016									
9/14/2016			0.0137 (J)	0.0058 (J)	0.0029 (J)				
9/20/2016						0.0021 (J)			
11/2/2016			0.0136 (J)	0.0053 (J)					
11/4/2016					<0.03				
11/8/2016						0.0024 (J)			
11/16/2016									0.0221 (J)
1/12/2017				0.0054 (J)	0.0032 (J)				
1/13/2017			0.0121 (J)						
1/16/2017						0.0022 (J)			
2/24/2017									
2/27/2017									0.0208 (J)
3/6/2017			0.0143 (J)						
3/7/2017				0.0056 (J)	0.0035 (J)				
3/9/2017						0.0025 (J)			
5/1/2017			0.0132 (J)	0.0031 (J)					
5/2/2017					0.0031 (J)	0.0019 (J)			
5/10/2017									0.0316 (J)
6/27/2017				0.0018 (J)	0.0029 (J)				
6/29/2017			0.0145 (J)						
7/10/2017						0.0018 (J)			
7/11/2017									0.0281 (J)
10/11/2017	0.0018 (J)								
10/12/2017		<0.03					0.0095 (J)	0.004 (J)	0.0331 (J)
11/20/2017	0.0018 (J)	<0.03					0.0083 (J)		
11/21/2017								0.0043 (J)	
1/10/2018		<0.03							
1/11/2018	0.0019 (J)							0.0044 (J)	
1/12/2018							0.0089 (J)		
2/19/2018		<0.03						<0.03	
2/20/2018	<0.03						0.0082 (J)		
3/29/2018			0.014 (J)	0.0058 (J)	0.0034 (J)				
3/30/2018						0.0039 (J)			
4/3/2018	0.0022 (J)	<0.03					0.0097 (J)	0.0047 (J)	
4/4/2018									0.037 (J)
6/6/2018				0.0068 (J)					
6/7/2018			0.013 (J)		0.0032 (J)				
6/12/2018						0.0017 (J)			
6/27/2018								0.0042 (J)	
6/28/2018	0.0026 (J)	<0.03					0.0093 (J)		
8/7/2018	0.0024 (J)	<0.03					0.0092 (J)	0.0038 (J)	
9/20/2018									0.049 (J)
9/24/2018	0.0022 (J)	<0.03					0.0083 (J)	0.0037 (J)	
9/26/2018			0.014 (J)	0.0065 (J)	0.0032 (J)				
9/27/2018						0.0017 (J)			
3/4/2019			0.015 (J)	0.0065 (J)	0.0032 (J)				
3/6/2019						0.0025 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
4/3/2019			0.014 (J)	0.007 (J)	0.0035 (J)				
4/4/2019						0.0018 (J)			
8/21/2019	0.0035 (J)	<0.03							
8/22/2019							0.0082 (J)	0.0035 (J)	0.047
9/24/2019				0.0065 (J)	0.0031 (J)				
9/25/2019			0.014 (J)						
9/27/2019						0.0017 (J)			
10/9/2019	0.0036 (J)	<0.03					0.0081 (J)	0.0032 (J)	0.037
2/12/2020	0.0041 (J)	<0.03	0.011 (J)	0.0066 (J)	0.0032 (J)				
3/24/2020		<0.03		0.0064 (J)	0.0033 (J)				
3/25/2020	0.0049 (J)		0.014 (J)				0.0081 (J)	0.0029 (J)	0.045
3/26/2020						0.0021 (J)			
9/22/2020			0.013 (J)	0.0066 (J)	0.0034 (J)				
9/24/2020	0.0054 (J)	<0.03				0.0035 (J)			0.05
9/25/2020							0.0069 (J)	0.0025 (J)	
2/8/2021				0.0063 (J)	0.0032 (J)				
2/9/2021			0.011 (J)			0.0026 (J)	0.0067 (J)		
2/10/2021	0.0071 (J)	<0.03						0.0021 (J)	0.058
3/2/2021				0.0018 (J)	0.0031 (J)				
3/3/2021			0.012 (J)						
3/4/2021	0.0084 (J)	<0.03				0.0026 (J)	0.0067 (J)	0.0021 (J)	0.059
8/25/2021						0.0026 (J)			0.053
8/26/2021	0.0082 (J)		0.0094 (J)	0.0075 (J)	0.0032 (J)		0.007 (J)	0.0021 (J)	
9/3/2021		<0.03							
9/27/2021									
2/8/2022	0.008 (J)	0.00076 (J)						0.0023 (J)	
2/10/2022				0.0076 (J)	0.0036 (J)	0.0029 (J)	0.0068 (J)		0.052
2/11/2022			0.012 (J)						
8/30/2022				0.0068 (J)	0.0035 (J)				
8/31/2022	0.0065 (J)	<0.03	0.013 (J)						
9/1/2022						0.0025 (J)	0.006 (J)	0.0019 (J)	0.054
2/7/2023	0.0065 (J)			0.0059 (J)					
2/8/2023		0.00074 (J)				0.0028 (J)	0.0058 (J)	0.0021 (J)	0.046
2/9/2023			0.014 (J)		0.0036 (J)				
8/15/2023	0.0064 (J)	<0.03	0.0083 (J)	0.0059 (J)	<0.03				
8/16/2023						0.0024 (J)	0.0058 (J)	0.0021 (J)	0.054
2/20/2024	0.0059 (J)	<0.03	0.014 (J)	0.0056 (J)	0.0033 (J)				
2/21/2024						0.0024 (J)			
2/22/2024							0.0058 (J)	0.0026 (J)	0.049

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	0.006 (J)
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	0.0095 (J)
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	0.0104 (J)
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	0.0123 (J)
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	0.0131 (J)
10/11/2017	
10/12/2017	0.013 (J)
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	0.016 (J)
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	0.019 (J)
9/24/2018	
9/26/2018	
9/27/2018	
3/4/2019	
3/6/2019	

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-43
4/3/2019	
4/4/2019	
8/21/2019	0.015 (J)
8/22/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	0.018 (J)
2/12/2020	
3/24/2020	
3/25/2020	0.016 (J)
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	0.018 (J)
2/8/2021	
2/9/2021	0.024 (J)
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	0.025 (J)
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	0.0092 (J)
2/8/2022	0.016 (J)
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	0.014 (J)
2/7/2023	
2/8/2023	0.015 (J)
2/9/2023	
8/15/2023	
8/16/2023	0.015 (J)
2/20/2024	
2/21/2024	
2/22/2024	0.015 (J)

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/1/2016					0.015	<0.03			
6/2/2016				<0.03				<0.03	0.018
7/25/2016						0.002 (J)		<0.03	
7/26/2016				<0.03	0.0135 (J)				0.0221 (J)
8/30/2016		0.0061 (J)							
8/31/2016			<0.03						
9/1/2016	0.0034 (J)								
9/13/2016					0.0112 (J)	<0.03			
9/14/2016							0.004 (J)		
9/15/2016				<0.03					0.0197 (J)
9/19/2016								<0.03	
11/1/2016					0.0163 (J)			<0.03	0.0194 (J)
11/2/2016				<0.03					
11/4/2016						<0.03	<0.03		
11/14/2016		0.0064 (J)							
11/15/2016	0.0044 (J)								
11/28/2016			<0.03						
12/15/2016							0.0026 (J)		
1/10/2017				<0.03					
1/11/2017					0.0166 (J)				0.0177 (J)
1/16/2017						0.0023 (J)	0.0023 (J)	<0.03	
2/21/2017								<0.03	
2/22/2017			<0.03						
2/24/2017		0.0049 (J)							
2/27/2017	0.0036 (J)								
3/1/2017									
3/2/2017					0.0159 (J)	0.0025 (J)			0.0185 (J)
3/3/2017							0.0013 (J)		
3/8/2017				<0.03					
4/26/2017				<0.03				<0.03	0.0183 (J)
4/27/2017					0.0137 (J)	0.0027 (J)			
4/28/2017							0.0031 (J)		
5/8/2017		0.0053 (J)	0.0014 (J)						
5/9/2017	0.0038 (J)								
5/26/2017							0.0038 (J)		
6/27/2017					0.0094 (J)	0.0024 (J)			
6/28/2017							0.0026 (J)		0.0173 (J)
6/30/2017				<0.03				<0.03	
7/11/2017		0.0051 (J)							
7/13/2017	0.0036 (J)								
7/17/2017			<0.03						
10/10/2017		0.0043 (J)							
10/11/2017	0.0036 (J)								
10/16/2017			0.0016 (J)						
2/19/2018			<0.03						
3/27/2018				<0.03		0.0023 (J)		0.0011 (J)	
3/28/2018							0.0025 (J)		0.02 (J)
3/29/2018					0.0078 (J)				
4/2/2018		0.0045 (J)							
4/4/2018	0.0039 (J)								
6/5/2018					0.0079 (J)				
6/6/2018						0.0024 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/7/2018							0.0017 (J)		0.02 (J)
6/8/2018				<0.03					
6/11/2018								0.0012 (J)	
8/6/2018			<0.03						
9/19/2018		0.0043 (J)							
9/20/2018	0.0036 (J)								
10/1/2018				<0.03	0.0053 (J)	0.0023 (J)	<0.03		0.02 (J)
10/2/2018								<0.03	
2/26/2019				<0.03				0.0011 (J)	
2/27/2019					0.0093 (J)	0.0023 (J)	0.0011 (J)		0.021 (J)
3/28/2019					0.013 (J)	0.0022 (J)			
3/29/2019				<0.03			0.0016 (J)		
4/1/2019								0.001 (J)	0.021 (J)
8/19/2019			0.0019 (J)						
8/20/2019		0.0036 (J)							
9/24/2019					0.0046 (J)	0.0023 (J)	0.0011 (J)		
9/25/2019				<0.03				0.0011 (J)	0.02 (J)
9/26/2019	0.0036 (J)								
10/8/2019		0.0036 (J)	0.0015 (J)						
2/10/2020					0.011 (J)	0.0023 (J)			
2/11/2020							0.0012 (J)		
2/12/2020				<0.03				0.0013 (J)	0.019 (J)
3/17/2020		0.0046 (J)	0.0017 (J)						
3/18/2020				<0.03		0.0024 (J)			
3/19/2020					0.013 (J)		0.0022 (J)	0.0012 (J)	0.023 (J)
3/25/2020	0.0037 (J)								
8/26/2020			0.0032 (J)						
8/27/2020		0.0039 (J)							
9/22/2020		0.0036 (J)	0.0029 (J)						
9/23/2020					0.014 (J)	0.0024 (J)	0.0016 (J)		0.023 (J)
9/24/2020	0.0037 (J)							0.0011 (J)	
9/25/2020				<0.03					
2/9/2021	0.0038 (J)								
2/10/2021				<0.03			0.0039 (J)		0.023 (J)
2/11/2021								0.0012 (J)	
2/12/2021					0.01 (J)	0.0025 (J)			
3/1/2021		0.0037 (J)						0.0011 (J)	
3/2/2021			0.0033 (J)	<0.03					
3/3/2021					0.012 (J)	0.0025 (J)	0.0016 (J)		0.024 (J)
3/4/2021	0.0035 (J)								
8/19/2021		0.0038 (J)		<0.03	0.013 (J)	0.0023 (J)		0.0012 (J)	0.023 (J)
8/20/2021			0.0028 (J)						
8/27/2021							0.0058 (J)		
9/1/2021	0.0036 (J)								
2/8/2022	0.0036 (J)	0.0039 (J)	0.0031 (J)						
2/9/2022					0.013 (J)	0.0027 (J)	0.006 (J)		0.026 (J)
2/10/2022				<0.03					
2/11/2022								0.0014 (J)	
8/30/2022			0.0025 (J)		0.013 (J)		0.0044 (J)		
8/31/2022	0.0031 (J)	0.0037 (J)		<0.03		<0.03		0.0012 (J)	0.021 (J)
2/7/2023			0.0022 (J)		0.006 (J)	0.0029 (J)	0.0047 (J)		
2/8/2023		0.0037 (J)		<0.03				0.0011 (J)	0.023 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
2/9/2023	0.0033 (J)								
8/15/2023		0.004 (J)	<0.03	<0.03	0.0079 (J)	0.002 (J)	<0.03		0.023 (J)
8/16/2023	0.003 (J)							<0.03	
2/20/2024		0.0036 (J)	0.0024 (J)		0.0071 (J)	<0.03	0.0021 (J)	<0.03	0.021 (J)
2/21/2024	0.0029 (J)								
2/23/2024				<0.03					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/1/2016	0.01
6/2/2016	
7/25/2016	0.0132 (J)
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	0.012 (J)
9/15/2016	
9/19/2016	
11/1/2016	0.0115 (J)
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	0.0085 (J)
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	0.0114 (J)
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	0.0092 (J)
4/27/2017	
4/28/2017	
5/8/2017	
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	0.0085 (J)
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	0.013 (J)
3/29/2018	
4/2/2018	
4/4/2018	
6/5/2018	
6/6/2018	

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/7/2018	
6/8/2018	0.012 (J)
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	0.011 (J)
10/2/2018	
2/26/2019	
2/27/2019	0.014 (J)
3/28/2019	
3/29/2019	
4/1/2019	0.013 (J)
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	0.01 (J)
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	0.013 (J)
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	0.014 (J)
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	0.013 (J)
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	0.015 (J)
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	0.017 (J)
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	0.026 (J)
9/1/2021	
2/8/2022	
2/9/2022	0.021 (J)
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	0.022 (J)
2/7/2023	
2/8/2023	0.018 (J)

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-3I (bg)
2/9/2023	
8/15/2023	
8/16/2023	0.025 (J)
2/20/2024	0.02 (J)
2/21/2024	
2/23/2024	

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50
6/8/2016							<0.03	
8/1/2016							<0.03	
9/2/2016			0.0029 (J)					
9/20/2016							<0.03	
11/8/2016							<0.03	
11/14/2016			0.0044 (J)					
1/17/2017							<0.03	
2/28/2017			0.0038 (J)					
3/8/2017							<0.03	
5/2/2017							<0.03	
5/9/2017			0.0057 (J)					
7/7/2017							<0.03	
7/13/2017			0.007 (J)					
9/22/2017			0.0067 (J)					
9/29/2017			0.0064 (J)					
10/6/2017			0.0065 (J)					
10/12/2017		0.0271 (J)						
11/21/2017		0.0255 (J)						
1/11/2018		0.0271 (J)						
2/20/2018		<0.03						
3/30/2018			0.0061 (J)				<0.03	
4/3/2018		0.027 (J)						
6/12/2018							<0.03	
6/13/2018			0.0065 (J)					
6/29/2018		0.032 (J)						
8/6/2018		0.033 (J)						
9/24/2018		0.028 (J)						
9/26/2018			0.0063 (J)				<0.03	
10/16/2018	0.0011 (J)							
3/5/2019							<0.03	
3/6/2019			0.0057 (J)					
4/4/2019			0.0058 (J)				<0.03	
9/26/2019	<0.03		0.0041 (J)				<0.03	
3/25/2020	0.011 (J)		0.0032 (J)					
3/26/2020							<0.03	
9/23/2020							<0.03	
9/24/2020	0.001 (J)							
9/25/2020		0.028 (J)						
10/7/2020			0.0014 (J)					
2/9/2021		0.024 (J)					<0.03	
2/10/2021	0.0012 (J)		0.0011 (J)					
3/3/2021							<0.03	
3/4/2021	0.0015 (J)	0.028 (J)	<0.03					
8/25/2021		0.023 (J)						
9/1/2021	0.0019 (J)						<0.03	
9/3/2021			0.00086 (J)	0.013 (J)				
2/10/2022	0.0021 (J)	0.017 (J)				0.006 (J)	<0.03	
2/11/2022			0.00093 (J)	0.0087 (J)	0.015 (J)			
8/31/2022	0.0025 (J)							
9/1/2022		0.016 (J)	0.00089 (J)	0.0044 (J)	0.023 (J)	0.0051 (J)		
2/8/2023		0.013 (J)		0.0088 (J)	0.025 (J)			
2/9/2023	0.0026 (J)		0.001 (J)			0.0045 (J)		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50
2/10/2023							<0.03	
8/16/2023	0.0026 (J)		0.0014 (J)	0.0095 (J)		0.0048 (J)	<0.03	
8/17/2023		0.016 (J)			0.029 (J)			0.0033 (J)
12/20/2023								0.0035 (J)
2/21/2024		0.015 (J)		0.009 (J)	0.027 (J)			
2/22/2024						0.005 (J)		0.0036 (J)
2/23/2024	0.0032 (J)		0.0017 (J)				<0.03	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							<0.0002	<0.0002	
6/7/2016						9.5E-05 (J)			9.6E-05 (J)
7/27/2016						<0.0002	<0.0002	<0.0002	<0.0002
7/28/2016									
9/16/2016						<0.0002		<0.0002	
9/19/2016							<0.0002		<0.0002
11/2/2016									<0.0002
11/3/2016						<0.0002	<0.0002	<0.0002	
1/11/2017						<0.0002	<0.0002	<0.0002	
1/13/2017									<0.0002
3/1/2017							<0.0002	<0.0002	
3/2/2017						<0.0002			
3/6/2017									<0.0002
4/26/2017							<0.0002	<0.0002	<0.0002
5/2/2017						<0.0002			
6/28/2017							<0.0002	<0.0002	
6/29/2017						<0.0002			<0.0002
3/28/2018						<0.0002	<0.0002	<0.0002	
3/29/2018									<0.0002
9/25/2018						<0.0002	<0.0002	<0.0002	<0.0002
3/5/2019						<0.0002		<0.0002	<0.0002
3/6/2019							<0.0002		
2/11/2020						<0.0002	<0.0002	<0.0002	
2/12/2020									<0.0002
9/23/2020		<0.0002		<0.0002					
9/24/2020	<0.0002				<0.0002				
2/9/2021	<0.0002	<0.0002		<0.0002	<0.0002		<0.0002	<0.0002	<0.0002
3/3/2021	<0.0002	<0.0002		<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
3/4/2021					<0.0002				
8/25/2021				<0.0002					
8/26/2021					<0.0002			<0.0002	
8/27/2021						<0.0002	<0.0002		<0.0002
9/1/2021	<0.0002	<0.0002							
2/9/2022						<0.0002	<0.0002	<0.0002	<0.0002
2/10/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002				
8/30/2022						<0.0002	<0.0002	<0.0002	
8/31/2022	<0.0002								<0.0002
9/1/2022		<0.0002	0.00016 (J)	<0.0002	<0.0002				
2/7/2023						0.00018 (J)	0.00013 (J)	0.00017 (J)	0.00015 (J)
2/8/2023		<0.0002		<0.0002	<0.0002				
2/9/2023	<0.0002		<0.0002						
8/15/2023						<0.0002	0.00014 (J)	0.00015 (J)	<0.0002
8/16/2023	<0.0002		<0.0002	<0.0002	<0.0002				
8/17/2023		<0.0002							
2/20/2024						<0.0002	<0.0002		<0.0002
2/21/2024			<0.0002						
2/22/2024		<0.0002		<0.0002	<0.0002				
2/23/2024	<0.0002							<0.0002	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	9.6E-05 (J)
7/27/2016	
7/28/2016	<0.0002
9/16/2016	
9/19/2016	<0.0002
11/2/2016	
11/3/2016	<0.0002
1/11/2017	
1/13/2017	<0.0002
3/1/2017	
3/2/2017	
3/6/2017	<0.0002
4/26/2017	<0.0002
5/2/2017	
6/28/2017	
6/29/2017	<0.0002
3/28/2018	
3/29/2018	<0.0002
9/25/2018	<0.0002
3/5/2019	<0.0002
3/6/2019	
2/11/2020	
2/12/2020	<0.0002
9/23/2020	
9/24/2020	
2/9/2021	<0.0002
3/3/2021	
3/4/2021	<0.0002
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	<0.0002
2/9/2022	<0.0002
2/10/2022	
8/30/2022	<0.0002
8/31/2022	
9/1/2022	
2/7/2023	0.00017 (J)
2/8/2023	
2/9/2023	
8/15/2023	<0.0002
8/16/2023	
8/17/2023	
2/20/2024	<0.0002
2/21/2024	
2/22/2024	
2/23/2024	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.0002	<0.0002	<0.0002				
6/7/2016						9.8E-05 (J)			
7/26/2016			<0.0002	<0.0002	<0.0002				
7/28/2016						<0.0002			
8/30/2016									<0.0002
8/31/2016									
9/14/2016			<0.0002	<0.0002	<0.0002				
9/20/2016						<0.0002			
11/2/2016			<0.0002	<0.0002					
11/4/2016					<0.0002				
11/8/2016						<0.0002			
11/16/2016									<0.0002
1/12/2017				<0.0002	<0.0002				
1/13/2017			<0.0002						
1/16/2017						<0.0002			
2/24/2017									
2/27/2017									<0.0002
3/6/2017			<0.0002						
3/7/2017				<0.0002	<0.0002				
3/9/2017						<0.0002			
5/1/2017			<0.0002	<0.0002					
5/2/2017					<0.0002	<0.0002			
5/10/2017									<0.0002
6/27/2017				<0.0002	<0.0002				
6/29/2017			<0.0002						
7/10/2017						<0.0002			
7/11/2017									<0.0002
10/11/2017	<0.0002								
10/12/2017		<0.0002					<0.0002	<0.0002	<0.0002
11/20/2017	7E-05 (J)	8E-05 (J)					8E-05 (J)		
11/21/2017								6E-05 (J)	
1/10/2018		<0.0002							
1/11/2018	<0.0002							<0.0002	
1/12/2018							<0.0002		
2/19/2018		<0.0002						<0.0002	
2/20/2018	<0.0002						<0.0002		
3/29/2018			<0.0002	<0.0002	<0.0002				
3/30/2018						<0.0002			
4/3/2018	<0.0002	<0.0002					<0.0002	<0.0002	
4/4/2018									<0.0002
6/27/2018								<0.0002	
6/28/2018	<0.0002	3.6E-05 (J)					3.7E-05 (J)		
8/7/2018	<0.0002	<0.0002					<0.0002	<0.0002	
9/20/2018									4.8E-05 (J)
9/24/2018	<0.0002	<0.0002					<0.0002	<0.0002	
9/26/2018			<0.0002	<0.0002	<0.0002				
9/27/2018						<0.0002			
3/4/2019			<0.0002	<0.0002	<0.0002				
3/6/2019						<0.0002			
8/21/2019	<0.0002	<0.0002							
8/22/2019							<0.0002	<0.0002	<0.0002
2/12/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
2/8/2021				<0.0002	<0.0002				
2/9/2021			<0.0002			0.00015 (J)	<0.0002		
2/10/2021	<0.0002	<0.0002						<0.0002	<0.0002
3/2/2021				<0.0002	<0.0002				
3/3/2021			<0.0002						
3/4/2021	<0.0002	<0.0002				<0.0002	<0.0002	<0.0002	<0.0002
8/25/2021						<0.0002			<0.0002
8/26/2021	<0.0002		<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	
9/3/2021		0.00012 (J)							
9/27/2021									
2/8/2022	<0.0002	0.00013 (J)						<0.0002	
2/10/2022				<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
2/11/2022			<0.0002						
8/30/2022				<0.0002	<0.0002				
8/31/2022	<0.0002	0.00064	<0.0002						
9/1/2022						<0.0002	<0.0002	<0.0002	<0.0002
2/7/2023	<0.0002			<0.0002					
2/8/2023		<0.0002				<0.0002	<0.0002	<0.0002	<0.0002
2/9/2023			<0.0002		<0.0002				
8/15/2023	<0.0002	0.00037	0.00013 (J)	0.00015 (J)	0.00014 (J)				
8/16/2023						<0.0002	<0.0002	<0.0002	<0.0002
2/20/2024	<0.0002	0.00032	<0.0002	<0.0002	<0.0002				
2/21/2024						<0.0002			
2/22/2024							<0.0002	<0.0002	<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	<0.0002
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	<0.0002
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	<0.0002
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	<0.0002
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	<0.0002
10/11/2017	
10/12/2017	<0.0002
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	<0.0002
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	5.2E-05 (J)
9/24/2018	
9/26/2018	
9/27/2018	
3/4/2019	
3/6/2019	
8/21/2019	<0.0002
8/22/2019	
2/12/2020	

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-43
2/8/2021	
2/9/2021	<0.0002
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	<0.0002
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	9E-05 (JB)
2/8/2022	<0.0002
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	<0.0002
2/7/2023	
2/8/2023	<0.0002
2/9/2023	
8/15/2023	
8/16/2023	<0.0002
2/20/2024	
2/21/2024	
2/22/2024	<0.0002

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/1/2007			<0.0002						
9/11/2007			<0.0002						
3/20/2008			<0.0002						
8/27/2008			<0.0002						
3/3/2009			<0.0002						
11/18/2009			<0.0002						
3/3/2010			<0.0002						
9/8/2010			<0.0002						
3/10/2011			<0.0002						
9/8/2011			<0.0002						
3/5/2012			<0.0002						
9/10/2012			<0.0002						
2/6/2013			<0.0002						
8/12/2013			<0.0002						
2/5/2014			<0.0002						
8/5/2014			<0.0002						
2/4/2015			<0.0002						
8/3/2015			<0.0002						
2/16/2016			1.36E-05 (J)						
6/1/2016					<0.0002	<0.0002			
6/2/2016				<0.0002				<0.0002	<0.0002
7/25/2016						<0.0002		<0.0002	
7/26/2016				<0.0002	<0.0002				<0.0002
8/30/2016		<0.0002							
8/31/2016			<0.0002						
9/1/2016	<0.0002								
9/13/2016					<0.0002	<0.0002			
9/14/2016							<0.0002		
9/15/2016				<0.0002					<0.0002
9/19/2016								<0.0002	
11/1/2016					<0.0002			<0.0002	<0.0002
11/2/2016				<0.0002					
11/4/2016						<0.0002	<0.0002		
11/14/2016		<0.0002							
11/15/2016	<0.0002								
11/28/2016			<0.0002						
12/15/2016							<0.0002		
1/10/2017				<0.0002					
1/11/2017					<0.0002				<0.0002
1/16/2017						<0.0002	<0.0002	<0.0002	
2/21/2017								<0.0002	
2/22/2017			<0.0002						
2/24/2017		<0.0002							
2/27/2017	<0.0002								
3/1/2017									
3/2/2017					<0.0002	<0.0002			<0.0002
3/3/2017							<0.0002		
3/8/2017				<0.0002					
4/26/2017				<0.0002				<0.0002	<0.0002
4/27/2017					<0.0002	<0.0002			
4/28/2017							<0.0002		
5/8/2017		<0.0002	<0.0002						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/9/2017	<0.0002								
5/26/2017							<0.0002		
6/27/2017					<0.0002	<0.0002			
6/28/2017							<0.0002		<0.0002
6/30/2017				<0.0002				<0.0002	
7/11/2017		<0.0002							
7/13/2017	<0.0002								
7/17/2017			<0.0002						
10/10/2017		<0.0002							
10/11/2017	<0.0002								
10/16/2017			<0.0002						
2/19/2018			<0.0002						
3/27/2018				<0.0002		<0.0002		<0.0002	
3/28/2018							<0.0002		<0.0002
3/29/2018					<0.0002				
4/2/2018		<0.0002							
4/4/2018	<0.0002								
8/6/2018			<0.0002						
9/19/2018		5.3E-05 (J)							
9/20/2018	6.1E-05 (J)								
2/25/2019			7.4E-05 (J)						
2/26/2019				6.1E-05 (J)				6.8E-05 (J)	
2/27/2019					5.1E-05 (J)	5.4E-05 (J)	<0.0002		6.2E-05 (J)
3/28/2019					4E-05 (J)	<0.0002			
3/29/2019				<0.0002			<0.0002		
4/1/2019								8.2E-05 (J)	9.6E-05 (J)
6/12/2019			<0.0002						
8/19/2019			<0.0002						
8/20/2019		<0.0002							
9/24/2019					<0.0002	<0.0002	<0.0002		
9/25/2019				<0.0002				<0.0002	<0.0002
10/8/2019			<0.0002						
2/10/2020					<0.0002	<0.0002			
2/11/2020							<0.0002		
2/12/2020				<0.0002				<0.0002	<0.0002
5/6/2020			<0.0002						
8/26/2020			<0.0002						
8/27/2020		<0.0002							
9/22/2020			<0.0002						
2/9/2021	0.00014 (J)								
2/10/2021				<0.0002			<0.0002		<0.0002
2/11/2021								<0.0002	
2/12/2021					<0.0002	<0.0002			
3/2/2021			<0.0002						
3/4/2021	<0.0002								
8/19/2021		<0.0002							
8/20/2021			<0.0002						
9/1/2021	<0.0002								
2/8/2022	<0.0002	<0.0002	<0.0002						
2/9/2022					<0.0002	<0.0002	<0.0002		<0.0002
2/10/2022				<0.0002					
2/11/2022								<0.0002	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
8/30/2022			<0.0002		<0.0002		<0.0002		
8/31/2022	<0.0002	<0.0002		<0.0002		<0.0002		<0.0002	<0.0002
2/7/2023			0.00013 (J)		<0.0002	<0.0002	<0.0002		
2/8/2023		<0.0002		<0.0002				<0.0002	<0.0002
2/9/2023	<0.0002								
8/15/2023		0.00014 (J)	<0.0002	0.00016 (J)	0.00015 (J)	0.00015 (J)	0.00015 (J)		0.00014 (J)
8/16/2023	<0.0002							<0.0002	
2/20/2024		<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/21/2024	<0.0002								
2/23/2024				<0.0002					

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/1/2007	
9/11/2007	
3/20/2008	
8/27/2008	
3/3/2009	
11/18/2009	
3/3/2010	
9/8/2010	
3/10/2011	
9/8/2011	
3/5/2012	
9/10/2012	
2/6/2013	
8/12/2013	
2/5/2014	
8/5/2014	
2/4/2015	
8/3/2015	
2/16/2016	
6/1/2016	<0.0002
6/2/2016	
7/25/2016	<0.0002
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	<0.0002
9/15/2016	
9/19/2016	
11/1/2016	<0.0002
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	<0.0002
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	<0.0002
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	<0.0002
4/27/2017	
4/28/2017	
5/8/2017	

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	<0.0002
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	<0.0002
3/29/2018	
4/2/2018	
4/4/2018	
8/6/2018	
9/19/2018	
9/20/2018	
2/25/2019	
2/26/2019	
2/27/2019	6.1E-05 (J)
3/28/2019	
3/29/2019	
4/1/2019	8.4E-05 (J)
6/12/2019	
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	<0.0002
10/8/2019	
2/10/2020	
2/11/2020	<0.0002
2/12/2020	
5/6/2020	
8/26/2020	
8/27/2020	
9/22/2020	
2/9/2021	
2/10/2021	<0.0002
2/11/2021	
2/12/2021	
3/2/2021	
3/4/2021	
8/19/2021	
8/20/2021	
9/1/2021	
2/8/2022	
2/9/2022	<0.0002
2/10/2022	
2/11/2022	

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-3I (bg)
8/30/2022	
8/31/2022	<0.0002
2/7/2023	
2/8/2023	<0.0002
2/9/2023	
8/15/2023	
8/16/2023	<0.0002
2/20/2024	<0.0002
2/21/2024	
2/23/2024	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50
6/8/2016							<0.0002	
8/1/2016							<0.0002	
9/2/2016			<0.0002					
9/20/2016							<0.0002	
11/8/2016							<0.0002	
11/14/2016			<0.0002					
1/17/2017							<0.0002	
2/28/2017			<0.0002					
3/8/2017							<0.0002	
5/2/2017							<0.0002	
5/9/2017			<0.0002					
7/7/2017							<0.0002	
7/13/2017			<0.0002					
9/22/2017			<0.0002					
9/29/2017			<0.0002					
10/6/2017			<0.0002					
10/12/2017		<0.0002						
11/21/2017		6E-05 (J)						
1/11/2018		<0.0002						
2/20/2018		<0.0002						
3/30/2018			<0.0002				<0.0002	
4/3/2018		<0.0002						
6/29/2018		<0.0002						
8/6/2018		<0.0002						
9/24/2018		<0.0002						
9/26/2018			<0.0002				<0.0002	
3/5/2019							<0.0002	
3/6/2019			<0.0002					
9/24/2020	<0.0002							
9/25/2020		<0.0002						
2/9/2021		<0.0002					<0.0002	
2/10/2021	<0.0002		<0.0002					
3/3/2021							<0.0002	
3/4/2021	<0.0002	<0.0002	<0.0002					
8/25/2021		<0.0002						
9/1/2021	<0.0002						<0.0002	
9/3/2021			<0.0002	<0.0002				
2/10/2022	<0.0002	<0.0002				<0.0002	<0.0002	
2/11/2022			<0.0002	<0.0002	<0.0002			
8/31/2022	<0.0002							
9/1/2022		0.00019 (J)	<0.0002	<0.0002	<0.0002	<0.0002		
2/8/2023		<0.0002		<0.0002	<0.0002			
2/9/2023	<0.0002		<0.0002			<0.0002		
2/10/2023							<0.0002	
8/16/2023	<0.0002		<0.0002	<0.0002		<0.0002	<0.0002	
8/17/2023		<0.0002			<0.0002			<0.0002
12/20/2023								<0.0002
2/21/2024		<0.0002		<0.0002	<0.0002			
2/22/2024						<0.0002		<0.0002
2/23/2024	<0.0002		<0.0002				<0.0002	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							<0.01	<0.01	
6/7/2016						<0.01			<0.01
7/27/2016						<0.01	<0.01	<0.01	<0.01
7/28/2016									
9/16/2016						<0.01		<0.01	
9/19/2016							<0.01		<0.01
11/2/2016									<0.01
11/3/2016						<0.01	<0.01	<0.01	
1/11/2017						<0.01	<0.01	<0.01	
1/13/2017									<0.01
3/1/2017							<0.01	<0.01	
3/2/2017						<0.01			
3/6/2017									<0.01
4/26/2017							<0.01	<0.01	<0.01
5/2/2017						<0.01			
6/28/2017							<0.01	<0.01	
6/29/2017						<0.01			<0.01
3/28/2018						<0.01	<0.01	<0.01	
3/29/2018									<0.01
3/5/2019						<0.01		<0.01	<0.01
3/6/2019							<0.01		
2/11/2020						<0.01	<0.01	<0.01	
2/12/2020									<0.01
3/24/2020						<0.01	<0.01	<0.01	<0.01
3/25/2020	<0.01								
9/23/2020		<0.01		0.0068 (J)		<0.01	<0.01	<0.01	
9/24/2020	0.0022 (J)				<0.01				<0.01
2/9/2021	0.0038 (J)	<0.01		0.0068 (J)	<0.01		<0.01	<0.01	<0.01
3/3/2021	0.0037 (J)	<0.01		0.0049 (J)		<0.01	<0.01	<0.01	<0.01
3/4/2021					<0.01				
8/25/2021				0.0081 (J)					
8/26/2021					<0.01			<0.01	
8/27/2021						<0.01	<0.01		<0.01
9/1/2021	0.0014 (J)	<0.01							
2/9/2022						<0.01	<0.01	<0.01	<0.01
2/10/2022	0.00089 (J)	<0.01	0.0036 (J)	0.0076 (J)	<0.01				
8/30/2022						<0.01	<0.01	<0.01	
8/31/2022	<0.01								<0.01
9/1/2022		<0.01	0.0057 (J)	0.0074 (J)	<0.01				
2/7/2023						<0.01	<0.01	<0.01	<0.01
2/8/2023		<0.01		0.0076 (J)	<0.01				
2/9/2023	<0.01		0.0067 (J)						
8/15/2023						<0.01	<0.01	<0.01	<0.01
8/16/2023	<0.01		0.0084 (J)	0.0074 (J)	<0.01				
8/17/2023		<0.01							
2/20/2024						<0.01	<0.01		<0.01
2/21/2024			0.0041 (J)						
2/22/2024		<0.01		0.0071 (J)	<0.01				
2/23/2024	<0.01							<0.01	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	<0.01
7/27/2016	
7/28/2016	<0.01
9/16/2016	
9/19/2016	<0.01
11/2/2016	
11/3/2016	<0.01
1/11/2017	
1/13/2017	<0.01
3/1/2017	
3/2/2017	
3/6/2017	0.0007 (J)
4/26/2017	0.0008 (J)
5/2/2017	
6/28/2017	
6/29/2017	<0.01
3/28/2018	
3/29/2018	<0.01
3/5/2019	<0.01
3/6/2019	
2/11/2020	
2/12/2020	<0.01
3/24/2020	<0.01
3/25/2020	
9/23/2020	
9/24/2020	<0.01
2/9/2021	<0.01
3/3/2021	
3/4/2021	<0.01
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	<0.01
2/9/2022	<0.01
2/10/2022	
8/30/2022	<0.01
8/31/2022	
9/1/2022	
2/7/2023	<0.01
2/8/2023	
2/9/2023	
8/15/2023	<0.01
8/16/2023	
8/17/2023	
2/20/2024	<0.01
2/21/2024	
2/22/2024	
2/23/2024	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.01	0.0035 (J)	<0.01				
6/7/2016						<0.01			
7/26/2016			<0.01	0.0042 (J)	<0.01				
7/28/2016						<0.01			
8/30/2016									0.0019 (J)
8/31/2016									
9/14/2016			<0.01	0.0041 (J)	<0.01				
9/20/2016						<0.01			
11/2/2016			<0.01	0.0039 (J)					
11/4/2016					<0.01				
11/8/2016						<0.01			
11/16/2016									0.0027 (J)
1/12/2017				0.0041 (J)	<0.01				
1/13/2017			<0.01						
1/16/2017						<0.01			
2/24/2017									
2/27/2017									0.0031 (J)
3/6/2017			<0.01						
3/7/2017				0.0047 (J)	<0.01				
3/9/2017						<0.01			
5/1/2017			<0.01	0.0045 (J)					
5/2/2017					<0.01	<0.01			
5/10/2017									0.0017 (J)
6/27/2017				0.004 (J)	<0.01				
6/29/2017			<0.01						
7/10/2017						<0.01			
7/11/2017									0.0014 (J)
10/11/2017	0.0094 (J)								
10/12/2017		<0.01					<0.01	<0.01	<0.01
11/20/2017	0.0081 (J)	<0.01					<0.01		
11/21/2017								<0.01	
1/10/2018		<0.01							
1/11/2018	0.0074 (J)							<0.01	
1/12/2018							<0.01		
2/19/2018		<0.01						<0.01	
2/20/2018	<0.01						<0.01		
3/29/2018			<0.01	<0.01	<0.01				
3/30/2018						<0.01			
4/3/2018	0.006 (J)	<0.01					<0.01	<0.01	
4/4/2018									<0.01
6/27/2018								<0.01	
6/28/2018	0.005 (J)	<0.01					<0.01		
8/7/2018	0.0045 (J)	<0.01					<0.01	<0.01	
9/20/2018									<0.01
9/24/2018	0.0035 (J)	<0.01					<0.01	<0.01	
3/4/2019			<0.01	<0.01	<0.01				
3/6/2019						<0.01			
8/21/2019	0.0021 (J)	<0.01							
8/22/2019							<0.01	<0.01	<0.01
10/9/2019	0.0018 (J)	<0.01					<0.01	<0.01	<0.01
2/12/2020	0.0025 (J)	<0.01	<0.01	0.0011 (J)	<0.01				
3/24/2020		<0.01		0.0011 (J)	<0.01				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
3/25/2020	0.002 (J)		<0.01				<0.01	<0.01	<0.01
3/26/2020						<0.01			
9/22/2020			<0.01	0.00099 (J)	<0.01				
9/24/2020	0.0016 (J)	<0.01				<0.01			0.00091 (J)
9/25/2020							<0.01	<0.01	
2/8/2021				0.0011 (J)	<0.01				
2/9/2021			<0.01			<0.01	<0.01		
2/10/2021	0.0013 (J)	<0.01						<0.01	0.00094 (J)
3/2/2021				<0.01	<0.01				
3/3/2021			<0.01						
3/4/2021	0.0014 (J)	<0.01				<0.01	<0.01	<0.01	0.00085 (J)
8/25/2021						<0.01			0.00078 (J)
8/26/2021	0.0027 (J)		<0.01	0.001 (J)	<0.01		<0.01	<0.01	
9/3/2021		<0.01							
9/27/2021									
2/8/2022	0.0035 (J)	<0.01						<0.01	
2/10/2022				0.00096 (J)	<0.01	<0.01	<0.01		0.0008 (J)
2/11/2022			<0.01						
8/30/2022				0.00089 (J)	<0.01				
8/31/2022	0.0036 (J)	<0.01	<0.01						
9/1/2022						<0.01	<0.01	<0.01	0.00079 (J)
2/7/2023	0.0045 (J)			0.00095 (J)					
2/8/2023		<0.01				<0.01	<0.01	<0.01	0.00081 (J)
2/9/2023			<0.01		<0.01				
8/15/2023	0.0061 (J)	<0.01	<0.01	0.0009 (J)	<0.01				
8/16/2023						<0.01	<0.01	<0.01	0.00096 (J)
2/20/2024	0.0058 (J)	<0.01	<0.01	0.001 (J)	<0.01				
2/21/2024						<0.01			
2/22/2024							<0.01	<0.01	0.00075 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	0.0022 (J)
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	<0.01
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	<0.01
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	<0.01
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	<0.01
10/11/2017	
10/12/2017	<0.01
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	<0.01
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	<0.01
9/24/2018	
3/4/2019	
3/6/2019	
8/21/2019	0.0012 (J)
8/22/2019	
10/9/2019	0.0012 (J)
2/12/2020	
3/24/2020	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-43
3/25/2020	0.0015 (J)
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	0.0011 (J)
2/8/2021	
2/9/2021	0.0012 (J)
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	0.0011 (J)
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	0.0062 (J)
2/8/2022	0.002 (J)
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	0.0014 (J)
2/7/2023	
2/8/2023	0.0016 (J)
2/9/2023	
8/15/2023	
8/16/2023	0.0019 (J)
2/20/2024	
2/21/2024	
2/22/2024	0.0016 (J)

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/1/2016					0.014 (J)	0.012 (J)			
6/2/2016				<0.01				<0.01	0.0093 (J)
7/25/2016						0.0098 (J)		<0.01	
7/26/2016				<0.01	0.0132				0.0113
8/30/2016		<0.01							
8/31/2016			<0.01						
9/1/2016	<0.01								
9/13/2016					0.0127	0.01 (J)			
9/14/2016							0.0039 (J)		
9/15/2016				<0.01					0.0112
9/19/2016								<0.01	
11/1/2016					0.0092 (J)			<0.01	0.0099 (J)
11/2/2016				<0.01					
11/4/2016						0.01	0.0077 (J)		
11/14/2016		<0.01							
11/15/2016	<0.01								
11/28/2016			<0.01						
12/15/2016							0.0066 (J)		
1/10/2017				<0.01					
1/11/2017					0.0093 (J)				0.0093 (J)
1/16/2017						0.0086 (J)	0.0056 (J)	<0.01	
2/21/2017								<0.01	
2/22/2017			<0.01						
2/24/2017		<0.01							
2/27/2017	0.0007 (J)								
3/1/2017									
3/2/2017					0.0099 (J)	0.01			0.0103
3/3/2017							0.0049 (J)		
3/8/2017				<0.01					
4/26/2017				<0.01				<0.01	0.01
4/27/2017					0.0103	0.0101			
4/28/2017							0.004 (J)		
5/8/2017		<0.01	<0.01						
5/9/2017	<0.01								
5/26/2017							0.0029 (J)		
6/27/2017					0.0097 (J)	0.0093 (J)			
6/28/2017							0.0036 (J)		0.0102
6/30/2017				<0.01				<0.01	
7/11/2017		<0.01							
7/13/2017	<0.01								
7/17/2017			<0.01						
10/10/2017		<0.01							
10/11/2017	<0.01								
10/16/2017			<0.01						
2/19/2018			<0.01						
3/27/2018				<0.01		0.0074 (J)		<0.01	
3/28/2018							0.0038 (J)		0.011
3/29/2018					0.0076 (J)				
4/2/2018		<0.01							
4/4/2018	<0.01								
6/5/2018					0.0092 (J)				
6/6/2018						0.0073 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/7/2018							0.004 (J)		0.011
6/8/2018				<0.01					
6/11/2018								<0.01	
8/6/2018			<0.01						
9/19/2018		<0.01							
9/20/2018	<0.01								
10/1/2018				<0.01	0.0085 (J)	0.0076 (J)	0.0042 (J)		0.012
10/2/2018								<0.01	
2/26/2019				<0.01				<0.01	
2/27/2019					0.0087 (J)	0.0078 (J)	0.0041 (J)		0.011
3/28/2019					0.0092 (J)	0.0082 (J)			
3/29/2019				<0.01			0.0041 (J)		
4/1/2019								<0.01	0.012
8/19/2019			<0.01						
8/20/2019		<0.01							
9/24/2019					0.0072 (J)	0.0074 (J)	0.0054 (J)		
9/25/2019				<0.01				<0.01	0.012
10/8/2019		<0.01							
2/10/2020					0.0087 (J)	0.0062 (J)			
2/11/2020							0.0057 (J)		
2/12/2020				<0.01				<0.01	0.013
3/17/2020		<0.01							
3/18/2020				<0.01		0.0056 (J)			
3/19/2020					0.0088 (J)		0.0046 (J)	<0.01	0.013
3/25/2020	<0.01								
8/26/2020			<0.01						
8/27/2020		<0.01							
9/22/2020		<0.01							
9/23/2020					0.008 (J)	0.0059 (J)	0.0071 (J)		0.012
9/24/2020	<0.01							<0.01	
9/25/2020				<0.01					
2/9/2021	<0.01								
2/10/2021				<0.01			0.0041 (J)		0.014
2/11/2021								<0.01	
2/12/2021					0.008 (J)	0.0056 (J)			
3/1/2021		<0.01						<0.01	
3/2/2021				<0.01					
3/3/2021					0.0088 (J)	0.0049 (J)	0.0074 (J)		0.013
3/4/2021	<0.01								
8/19/2021		<0.01		<0.01	0.0083 (J)	0.005 (J)		<0.01	0.013
8/20/2021			<0.01						
8/27/2021							0.0048 (J)		
9/1/2021	<0.01								
2/8/2022	<0.01	<0.01	<0.01						
2/9/2022					0.0093 (J)	0.0055 (J)	0.0057 (J)		0.013
2/10/2022				<0.01					
2/11/2022								<0.01	
8/30/2022			<0.01		0.0094 (J)		0.0068 (J)		
8/31/2022	<0.01	<0.01		<0.01		0.0055 (J)		<0.01	0.011
2/7/2023			<0.01		<0.01	<0.01	0.0061 (J)		
2/8/2023		<0.01		<0.01				<0.01	0.012
2/9/2023	<0.01								

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
8/15/2023		<0.01	<0.01	<0.01	0.0098 (J)	0.0047 (J)	0.0071 (J)		0.012
8/16/2023	<0.01							<0.01	
2/20/2024		<0.01	<0.01		0.0098 (J)	0.03	0.0076 (J)	<0.01	0.013
2/21/2024	<0.01								
2/23/2024				<0.01					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/1/2016	0.0055 (J)
6/2/2016	
7/25/2016	0.0037 (J)
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	0.0034 (J)
9/15/2016	
9/19/2016	
11/1/2016	0.0025 (J)
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	0.0033 (J)
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	0.0044 (J)
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	0.0075 (J)
4/27/2017	
4/28/2017	
5/8/2017	
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	0.008 (J)
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	0.0025 (J)
3/29/2018	
4/2/2018	
4/4/2018	
6/5/2018	
6/6/2018	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/7/2018	
6/8/2018	0.0041 (J)
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	0.0037 (J)
10/2/2018	
2/26/2019	
2/27/2019	0.0027 (J)
3/28/2019	
3/29/2019	
4/1/2019	0.0021 (J)
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	0.0087 (J)
10/8/2019	
2/10/2020	
2/11/2020	0.003 (J)
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	0.0043 (J)
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	0.01
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	0.0038 (J)
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	0.0036 (J)
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	0.0099 (J)
9/1/2021	
2/8/2022	
2/9/2022	0.0087 (J)
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	0.0068 (J)
2/7/2023	
2/8/2023	0.0065 (J)
2/9/2023	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-3I (bg)
8/15/2023	
8/16/2023	0.012
2/20/2024	0.0089 (J)
2/21/2024	
2/23/2024	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50
6/8/2016							<0.01	
8/1/2016							<0.01	
9/2/2016			0.0027 (J)					
9/20/2016							<0.01	
11/8/2016							<0.01	
11/14/2016			0.0071 (J)					
1/17/2017							<0.01	
2/28/2017			0.0038 (J)					
3/8/2017							<0.01	
5/2/2017							<0.01	
5/9/2017			0.0025 (J)					
7/7/2017							<0.01	
7/13/2017			0.0014 (J)					
9/22/2017			<0.01					
9/29/2017			<0.01					
10/6/2017			<0.01					
10/12/2017		0.0022 (J)						
11/21/2017		0.0016 (J)						
1/11/2018		0.0015 (J)						
2/20/2018		<0.01						
3/30/2018			<0.01				<0.01	
4/3/2018		<0.01						
6/29/2018		0.0021 (J)						
8/6/2018		<0.01						
9/24/2018		<0.01						
3/5/2019							<0.01	
3/6/2019			<0.01					
3/25/2020	0.0019 (J)		<0.01					
3/26/2020							<0.01	
9/23/2020							<0.01	
9/24/2020	<0.01							
9/25/2020		0.0016 (J)						
10/7/2020			0.0015 (J)					
2/9/2021		0.0016 (J)					<0.01	
2/10/2021	<0.01		<0.01					
3/3/2021							<0.01	
3/4/2021	<0.01	0.0024 (J)	<0.01					
8/25/2021		0.0011 (J)						
9/1/2021	<0.01						<0.01	
9/3/2021			<0.01	0.0018 (J)				
2/10/2022	<0.01	<0.01				<0.01	<0.01	
2/11/2022			<0.01	0.0037 (J)	0.011			
8/31/2022	<0.01							
9/1/2022		<0.01	<0.01	0.0059 (J)	0.0084 (J)	<0.01		
2/8/2023		<0.01		0.0024 (J)	0.005 (J)			
2/9/2023	<0.01		<0.01			<0.01		
2/10/2023							<0.01	
8/16/2023	<0.01		<0.01	0.004 (J)		<0.01	<0.01	
8/17/2023		<0.01			0.003 (J)			<0.01
12/20/2023								<0.01
2/21/2024		<0.01		0.004 (J)	0.0025 (J)			
2/22/2024						<0.01		<0.01

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50
2/23/2024	<0.01		<0.01				<0.01	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: pH (S.U.) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							6.17	5.71	
6/7/2016						5.62			5.77
7/27/2016						5.59	6.14	5.46	5.79
7/28/2016									
9/16/2016						5.58			
9/19/2016							6.04	5.59	5.73
11/2/2016									5.67
11/3/2016						5.59	5.97	5.39	
1/11/2017						5.59	6.05	5.48	
1/13/2017									5.79
3/1/2017							5.94	5.41	
3/2/2017						5.54			
3/6/2017									5.63
4/26/2017							5.99	5.4	5.66
5/2/2017						5.47			
6/28/2017							6	5.36	
6/29/2017						5.56			5.85
10/3/2017									
10/4/2017						5.57		5.32	5.83
10/5/2017							6.11		
3/28/2018						5.59	6.1	5.34	
3/29/2018									5.93
6/5/2018									
6/6/2018									5.86
6/7/2018							5.98		
6/11/2018						5.58		5.28	
9/25/2018						5.59	5.81	4.86	5.84
3/5/2019						5.48		5.26	6.07
3/6/2019							5.99		
4/2/2019						5.74			
4/3/2019							6.29	5.47	5.71
9/24/2019									
9/25/2019						5.49			5.86
9/26/2019							6.04	5.2	
1/3/2020	5.78								
1/15/2020		6.25			5.64				
1/16/2020			6.67	6.47					
2/11/2020			6.62		5.37	5.58	6.07	5.3	
2/12/2020									6
3/24/2020						5.57	5.98	5.33	5.86
3/25/2020	6.13								
9/23/2020		5.66		5.89		5.58 (D)	6.01 (D)	5.29 (D)	
9/24/2020	6				5.38				5.8 (D)
2/9/2021	6.42	5.81		6.96	5.34		6.12	5.43	5.86
3/3/2021	6.54	5.67		6.8		5.52	5.89	5.31	5.89
3/4/2021					5.32				
8/25/2021				6.79					
8/26/2021					5.35			4.4	
8/27/2021						5.27	5.4		5.57
9/1/2021	5.97	6.67							
9/3/2021			5.74						
2/9/2022						5.53	5.98	5.28	5.91

Time Series

Constituent: pH (S.U.) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
2/10/2022	5.8	5.64	5.93	6.1	5.22 (D)				
8/30/2022						4.68	5.82	5.18	
8/31/2022	5.64								5.38
9/1/2022		4.98	5.93	5.87	5.32				
2/7/2023						5.47	6	5.03	5.63
2/8/2023		5.95		6.19	5.67				
2/9/2023	5.73		5.89						
8/15/2023						5.54	5.82	5.2	7
8/16/2023	5.8		5.92	5.94	5.41				
8/17/2023		4.77							
2/20/2024						5.64	6.11		5.99
2/21/2024			5.65						
2/22/2024		5.42		5.99					
2/23/2024	5.5							5.3	

Time Series

Constituent: pH (S.U.) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	6.1
7/27/2016	
7/28/2016	6.12
9/16/2016	
9/19/2016	6.12
11/2/2016	
11/3/2016	6.07
1/11/2017	
1/13/2017	6.41
3/1/2017	
3/2/2017	
3/6/2017	6.34
4/26/2017	6.32
5/2/2017	
6/28/2017	
6/29/2017	6.47
10/3/2017	6.56
10/4/2017	
10/5/2017	
3/28/2018	
3/29/2018	6.75
6/5/2018	6.09
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	6.67
3/5/2019	7.22
3/6/2019	
4/2/2019	6.94
4/3/2019	
9/24/2019	6.87
9/25/2019	
9/26/2019	
1/3/2020	
1/15/2020	
1/16/2020	
2/11/2020	
2/12/2020	7.13
3/24/2020	6.35
3/25/2020	
9/23/2020	
9/24/2020	6.7 (D)
2/9/2021	6.95
3/3/2021	
3/4/2021	6.8
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	6.65
9/3/2021	
2/9/2022	6.84

Time Series

Constituent: pH (S.U.) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-21I (bg)
2/10/2022	
8/30/2022	6.58
8/31/2022	
9/1/2022	
2/7/2023	6.82
2/8/2023	
2/9/2023	
8/15/2023	6.84
8/16/2023	
8/17/2023	
2/20/2024	6.78
2/21/2024	
2/22/2024	
2/23/2024	

Time Series

Constituent: pH (S.U.) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			6.36	7.67	5.75				
6/7/2016						5.57			
7/26/2016			6.22	7.66	5.72				
7/28/2016						5.6			
8/30/2016									5.64
8/31/2016									
9/14/2016			6.23	7.6	5.74				
9/20/2016						5.53			
11/2/2016			6.08	7.35					
11/4/2016					5.61				
11/8/2016						5.53			
11/16/2016									6.21
1/12/2017				7.49	5.71				
1/13/2017			6.19						
1/16/2017						5.59			
2/24/2017									
2/27/2017									6.09
3/6/2017			6.2						
3/7/2017				7.43	5.66				
3/9/2017						5.56			
5/1/2017			6.21	7.22					
5/2/2017					5.65	5.61			
5/10/2017									5.79
6/27/2017				7.32	5.7				
6/29/2017			6.21						
7/10/2017						5.68			
7/11/2017									5.45
10/3/2017				7.48	5.79				
10/5/2017			6.16						
10/11/2017	6.4					5.46			
10/12/2017		5.43					4.85	4.94	5.48
11/20/2017	6.33	5.1					4.87		
11/21/2017								4.69	
1/10/2018		4.97							
1/11/2018	6.29							4.73	
1/12/2018							4.78		
2/19/2018		5.6						4.96	
2/20/2018	7.22						5.1		
3/29/2018			6.09	7.02	5.63				
3/30/2018						5.73			
4/3/2018	6.87	5.84					4.76	5.31	
4/4/2018									5.93
6/6/2018				7.43					
6/7/2018			6.12		5.63				
6/12/2018						5.63			
6/27/2018								4.78	
6/28/2018	6.18	5.24					4.75		
8/7/2018	6.08	5.18					4.72	4.77	
9/20/2018									5.63
9/24/2018	5.81	5.14					4.67	4.78	
9/26/2018			5.84	7.13	5.63				
9/27/2018						5.47			

Time Series

Constituent: pH (S.U.) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
3/4/2019			6.18	7.46	5.75				
3/6/2019						5.84			
3/26/2019		5.3							
3/27/2019	5.84						4.79		5.57
3/28/2019								5	
4/3/2019			6.43	7.11	5.63				
4/4/2019						5.64			
8/21/2019	5.96	5.26							
8/22/2019							4.81	4.89	5.61
9/24/2019				6.93	5.6				
9/25/2019			6.2						
9/27/2019						5.77			
10/9/2019	5.81	5.22					4.8	4.86	5.5
2/12/2020	5.97	5.3	6.15	7.52	5.83				
3/24/2020		5.29		7.34	5.81				
3/25/2020	5.78		6.26				4.89	4.87	5.53
3/26/2020						5.69			
9/22/2020			5.8 (D)	7.19 (D)	5.99 (D)				
9/24/2020	5.7 (D)	5.43 (D)				5.51			5.55
9/25/2020							4.9	4.95	
2/8/2021					5.67				
2/9/2021			6.06			5.61	5.04		
2/10/2021	5.8	5.19						4.98	5.65
3/2/2021				7.15	5.63				
3/3/2021			6.21						
3/4/2021	5.54	5.23				5.44	5.01	4.69	5.59
8/25/2021						5.46			6.73
8/26/2021	6.91		5.82	7.16	5.51		4.54	6.77	
9/3/2021		4.75							
9/27/2021									
2/8/2022	5.78	5.26						5.07 (D)	
2/10/2022				6.99	5.14	5.51	4.85		5.57
2/11/2022			5.95						
8/30/2022				7.4	5				
8/31/2022	5.3	4.53	5.5						
9/1/2022						5.27	4.91	4.43	5.49
2/7/2023	5.49			6.64					
2/8/2023		5.71				5.33	5.16	4.69	5.48
2/9/2023			6.23		5.9				
8/15/2023	5.78	5	5.99	7.34	5.58				
8/16/2023						5.36	4.83	5.01	5.53
2/20/2024	5.97	5.32	6.21	7.56	5.78				
2/21/2024						5.43			
2/22/2024							5.03	4.84	5.61

Time Series

Constituent: pH (S.U.) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	7.27
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	6.79
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	6.39
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	6.5
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	6.32
10/3/2017	
10/5/2017	
10/11/2017	
10/12/2017	5.97
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	6.41
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	5.69
9/24/2018	
9/26/2018	
9/27/2018	

Time Series

Constituent: pH (S.U.) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-43
3/4/2019	
3/6/2019	
3/26/2019	
3/27/2019	
3/28/2019	5.96
4/3/2019	
4/4/2019	
8/21/2019	5.84
8/22/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	5.78
2/12/2020	
3/24/2020	
3/25/2020	5.79
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	5.75
2/8/2021	
2/9/2021	5.86
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	5.88
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	6.08
2/8/2022	5.82 (D)
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	5.62
2/7/2023	
2/8/2023	5.4
2/9/2023	
8/15/2023	
8/16/2023	5.58
2/20/2024	
2/21/2024	
2/22/2024	5.81

Time Series

Constituent: pH (S.U.) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
8/27/2008			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 (D)						
2/16/2016			5.64						
6/1/2016					7.46	6.33			
6/2/2016				5.46				5.75	7.84
7/25/2016						6.21		5.82	
7/26/2016				5.45	7.43				7.88
8/30/2016		5.75							
9/1/2016	5.78								
9/13/2016					7.44	6.16	7.41		
9/14/2016									
9/15/2016				5.45					7.74
9/19/2016								5.78 (D)	
11/1/2016					7.24			5.62	7.75
11/2/2016				5.41					
11/4/2016						6.29	7.12		
11/14/2016		5.59							
11/15/2016	5.81								
11/28/2016			6.23						
12/15/2016							7.24		
1/10/2017				5.37					
1/11/2017					7.3				7.66
1/16/2017						6.29	7.24	5.72	
2/21/2017								5.67	
2/22/2017			6.21						
2/24/2017		5.49							
2/27/2017	5.68								
3/1/2017									
3/2/2017					7.23	6.28			7.68
3/3/2017							7.22		
3/8/2017				5.41					
4/26/2017				5.02				5.56	7.45
4/27/2017					6.99	6.09			
4/28/2017							7.21		
5/8/2017		5.58	6.12						
5/9/2017	6.18								
5/26/2017							7.13		
6/27/2017					6.87	6.21			
6/28/2017							7.06		7.65
6/30/2017				5.39				5.72	
7/11/2017		5.58							
7/13/2017	5.6								

Time Series

Constituent: pH (S.U.) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
7/17/2017			6.03						
10/3/2017					6.81	5.98	6.99		
10/4/2017								5.87	7.49
10/5/2017				5.49					
10/10/2017		5.49							
10/11/2017	5.61								
10/16/2017			6.12						
2/19/2018			6.13						
3/27/2018				5.47		6.25		5.83	
3/28/2018							7.3		7.91
3/29/2018					7.38				
4/2/2018		6.3 (O)							
4/4/2018	5.98								
6/5/2018					7.16				
6/6/2018						6.17			
6/7/2018							7.29		7.69
6/8/2018				5.45					
6/11/2018								5.69	
8/6/2018			6.01						
9/19/2018		5.48							
9/20/2018	5.67								
10/1/2018				5.39	6.8	5.9	7.07		7.39
10/2/2018								5.39	
2/25/2019			6.51						
2/26/2019				5.46				5.77	
2/27/2019					6.84	5.8	7.27		7.55
3/27/2019		5.83							
3/28/2019	5.86				6.99	6.15			
3/29/2019				5.34			7.06		
4/1/2019								5.62	7.87
6/12/2019			6.3						
8/19/2019			6.23						
8/20/2019		5.58							
9/24/2019					7.07	6.23	7.01		
9/25/2019				5.19				5.69	7.64
9/26/2019	5.6								
10/8/2019		5.59	6.28						
2/10/2020					7.2	6.1			
2/11/2020							7.38		
2/12/2020				5.48				5.8	7.83
3/17/2020		5.57	6.14						
3/18/2020				5.38		6.19			
3/19/2020					7.03		7.22	6	7.65
3/25/2020	5.69								
5/6/2020			6.24						
8/26/2020			5.67						
8/27/2020		4.88							
9/22/2020		5.46	5.78						
9/23/2020					7.15	6.01	7.22		7.57
9/24/2020	5.62							5.67	
9/25/2020				5.44					
2/9/2021	5.79								

Time Series

Constituent: pH (S.U.) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
2/10/2021				5.35			7.29		7.81
2/11/2021								5.73	
2/12/2021					7.14	6.21			
3/1/2021		5.48						5.78	
3/2/2021			5.42	5.49					
3/3/2021					7.2	5.38	7.92		8.39
3/4/2021	5.88								
8/19/2021		5.5		7.32	6.32	6.38			5.34
8/20/2021			5.86						
8/27/2021							7.14		
9/1/2021	5.15								
2/8/2022	5.79 (D)	5.4	5.83						
2/9/2022					7.12	6.24	5.89		7.97
2/10/2022				4.5					
2/11/2022								5.59	
8/30/2022			5.39		7.2		7.04		
8/31/2022	5.34	5.32		5.15		5.64		5.87	7.65
2/7/2023			5.94		7.86	6.53	6.94		
2/8/2023		5.22		5.39				6.43	7.88
2/9/2023	5.61								
8/15/2023		5.69	5.3	5.03	6.98	5.88	6.96		7.69
8/16/2023	5.04							5.55	
2/20/2024		5.62	6.07		7.06	6.42	7.23	5.81	7.81
2/21/2024	5.29								
2/23/2024				5.39					

Time Series

Constituent: pH (S.U.) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-3I (bg)
8/27/2008	
3/3/2009	
11/18/2009	
3/3/2010	
3/10/2011	
9/8/2011	
3/5/2012	
9/10/2012	
2/6/2013	
8/12/2013	
2/5/2014	
8/3/2015	
2/16/2016	
6/1/2016	7.72
6/2/2016	
7/25/2016	7.74
7/26/2016	
8/30/2016	
9/1/2016	
9/13/2016	
9/14/2016	7.65
9/15/2016	
9/19/2016	
11/1/2016	7.7
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	7.53
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	7.42
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	7.4
4/27/2017	
4/28/2017	
5/8/2017	
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	7.5
6/30/2017	
7/11/2017	
7/13/2017	

Time Series

Constituent: pH (S.U.) Analysis Run 4/25/2024 2:26 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-3I (bg)
7/17/2017	
10/3/2017	
10/4/2017	7.45
10/5/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	7.74
3/29/2018	
4/2/2018	
4/4/2018	
6/5/2018	
6/6/2018	
6/7/2018	
6/8/2018	7.64
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	7.47
10/2/2018	
2/25/2019	
2/26/2019	
2/27/2019	7.54
3/27/2019	
3/28/2019	
3/29/2019	
4/1/2019	7.74
6/12/2019	
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	7.47
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	7.09
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	7.31
3/25/2020	
5/6/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	7.37
9/24/2020	
9/25/2020	
2/9/2021	

Time Series

Constituent: pH (S.U.) Analysis Run 4/25/2024 2:27 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-3I (bg)
2/10/2021	7.58
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	8.23
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	7.39
9/1/2021	
2/8/2022	
2/9/2022	7.66
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	7.49
2/7/2023	
2/8/2023	7.73
2/9/2023	
8/15/2023	
8/16/2023	7.39
2/20/2024	7.59
2/21/2024	
2/23/2024	

Time Series

Constituent: pH (S.U.) Analysis Run 4/25/2024 2:27 PM

Plant Yates Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50
6/8/2016							5.65	
8/1/2016							5.47	
9/2/2016			5.84					
9/20/2016							5.61	
11/8/2016							5.55	
11/14/2016			6.28					
1/17/2017							5.53	
2/28/2017			5.99					
3/8/2017							5.62	
5/2/2017							5.46	
5/9/2017			6.3					
7/7/2017							5.81	
7/13/2017			5.57					
9/22/2017			5.5					
9/29/2017			5.58					
10/5/2017							5.45	
10/6/2017			5.51					
10/11/2017			5.47					
10/12/2017		5.57						
11/21/2017		5.49						
1/11/2018		5.87						
2/20/2018		5.9						
3/30/2018			5.51				5.64	
4/3/2018		5.66						
6/12/2018							5.64	
6/13/2018			5.5					
6/29/2018		5.49						
8/6/2018		5.52						
9/24/2018		5.37						
9/26/2018			5.53				5.61	
3/5/2019							5.72	
3/6/2019			5.21					
4/4/2019			5.74				5.66	
9/26/2019			5.51				5.52	
3/25/2020	5.65		5.49					
3/26/2020							5.51	
9/23/2020							5.64	
9/24/2020	5.52							
9/25/2020		5.46						
10/7/2020			5.86					
2/9/2021		5.42					5.69	
2/10/2021	5.53		6.31					
3/3/2021							5.7	
3/4/2021	5.64	5.51	5.67					
8/25/2021		5.48						
9/1/2021	6.82						5.22	
9/3/2021			5.06	7.44				
2/10/2022	5.35	4.93 (D)				4.46	4.66	
2/11/2022			5.58	7.84	6.4			
8/31/2022	5.28							
9/1/2022		4.98	5.18	8.06	6.2	4.74		
2/8/2023		5.15		7.95	6.12			

Time Series

Constituent: pH (S.U.) Analysis Run 4/25/2024 2:27 PM

Plant Yates Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50
2/9/2023	5.5		5.67			5.14		
2/10/2023							5.67	
8/16/2023	5.34		5.36	8.05		4.68	5.89	
8/17/2023		5.13			5.6			5
2/21/2024		5.12		8.17	5.98			
2/22/2024						4.9		5
2/23/2024	5.24		5.2				5.62	

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/25/2024 2:27 PM

Plant Yates Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							<0.005	<0.005	
6/7/2016						0.001 (J)			<0.005
7/27/2016						0.0012 (J)	<0.005	<0.005	<0.005
7/28/2016									
9/16/2016						0.0015 (J)		<0.005	
9/19/2016							<0.005		<0.005
11/2/2016									<0.005
11/3/2016						0.0015 (J)	<0.005	<0.005	
1/11/2017						0.0014 (J)	<0.005	<0.005	
1/13/2017									<0.005
3/1/2017							<0.005	<0.005	
3/2/2017						0.0017 (J)			
3/6/2017									<0.005
4/26/2017							<0.005	<0.005	<0.005
5/2/2017						<0.005			
6/28/2017							<0.005	<0.005	
6/29/2017						<0.005			<0.005
3/28/2018						<0.005	<0.005	<0.005	
3/29/2018									<0.005
6/5/2018									
6/6/2018									<0.005
6/7/2018							<0.005		
6/11/2018						<0.005		<0.005	
9/25/2018						<0.005	<0.005	<0.005	<0.005
10/16/2018	0.0019 (J)								
3/5/2019						<0.005		<0.005	<0.005
3/6/2019							<0.005		
4/2/2019						<0.005			
4/3/2019							<0.005	<0.005	<0.005
9/24/2019									
9/25/2019						<0.005			<0.005
9/26/2019	<0.005						<0.005	<0.005	
1/15/2020		<0.005			0.045				
1/16/2020			<0.005	0.0018 (J)					
2/11/2020						<0.005	<0.005	<0.005	
2/12/2020									<0.005
3/24/2020						<0.005	<0.005	<0.005	<0.005
3/25/2020	<0.005								
9/23/2020		<0.005		0.016		<0.005	<0.005	<0.005	
9/24/2020	<0.005				0.026				<0.005
2/9/2021	<0.005	<0.005		<0.005	0.06		<0.005	<0.005	<0.005
3/3/2021	<0.005	<0.005		<0.005		<0.005	<0.005	<0.005	<0.005
3/4/2021					0.061				
8/25/2021				0.019					
8/26/2021					0.055			<0.005	
8/27/2021						<0.005	<0.005		<0.005
9/1/2021	0.0027 (J)	<0.005							
2/9/2022						<0.005	<0.005	<0.005	<0.005
2/10/2022	0.0034 (J)	<0.005	<0.005	0.019	0.057				
8/30/2022						<0.005	<0.005	<0.005	
8/31/2022	0.0041 (J)								<0.005
9/1/2022		<0.005	<0.005	0.023	0.048				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/25/2024 2:27 PM

Plant Yates Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
2/7/2023						<0.005	<0.005	<0.005	<0.005
2/8/2023		<0.005		0.017	0.052				
2/9/2023	0.0051		<0.005						
8/15/2023						<0.005	<0.005	<0.005	<0.005
8/16/2023	0.0046 (J)		0.0075	0.019	0.054				
8/17/2023		<0.005							
2/20/2024						<0.005	<0.005		<0.005
2/21/2024			0.023						
2/22/2024		<0.005		0.015	0.053				
2/23/2024	0.0056							<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/25/2024 2:27 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	0.00048 (J)
7/27/2016	
7/28/2016	<0.005
9/16/2016	
9/19/2016	0.0014 (J)
11/2/2016	
11/3/2016	<0.005
1/11/2017	
1/13/2017	<0.005
3/1/2017	
3/2/2017	
3/6/2017	<0.005
4/26/2017	<0.005
5/2/2017	
6/28/2017	
6/29/2017	<0.005
3/28/2018	
3/29/2018	<0.005
6/5/2018	<0.005
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	<0.005
10/16/2018	
3/5/2019	<0.005
3/6/2019	
4/2/2019	<0.005
4/3/2019	
9/24/2019	<0.005
9/25/2019	
9/26/2019	
1/15/2020	
1/16/2020	
2/11/2020	
2/12/2020	<0.005
3/24/2020	<0.005
3/25/2020	
9/23/2020	
9/24/2020	<0.005
2/9/2021	<0.005
3/3/2021	
3/4/2021	<0.005
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	<0.005
2/9/2022	<0.005
2/10/2022	
8/30/2022	<0.005
8/31/2022	
9/1/2022	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/25/2024 2:27 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-21I (bg)
2/7/2023	<0.005
2/8/2023	
2/9/2023	
8/15/2023	<0.005
8/16/2023	
8/17/2023	
2/20/2024	<0.005
2/21/2024	
2/22/2024	
2/23/2024	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/25/2024 2:27 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.005	<0.005	<0.005				
6/7/2016						0.037			
7/26/2016			0.0009 (J)	<0.005	0.0009 (J)				
7/28/2016						0.0385			
8/30/2016									0.0711
8/31/2016									
9/14/2016			<0.005	<0.005	<0.005				
9/20/2016						0.0464			
11/2/2016			<0.005	<0.005					
11/4/2016					<0.005				
11/8/2016						0.0521			
11/16/2016									0.0313
1/12/2017				<0.005	<0.005				
1/13/2017			<0.005						
1/16/2017						0.0469			
2/24/2017									
2/27/2017									0.0316
3/6/2017			<0.005						
3/7/2017				<0.005	<0.005				
3/9/2017						0.0437			
5/1/2017			<0.005	<0.005					
5/2/2017					<0.005	0.0395			
5/10/2017									0.053
6/27/2017				<0.005	<0.005				
6/29/2017			<0.005						
7/10/2017						0.0386			
7/11/2017									0.0697
10/11/2017	<0.005								
10/12/2017		<0.005					0.265	0.0191	0.0594
11/20/2017	<0.005	0.0042 (J)					0.246		
11/21/2017								0.0687	
1/10/2018		0.0043 (J)							
1/11/2018	<0.005							0.069	
1/12/2018							0.249		
2/19/2018		<0.005						0.071	
2/20/2018	<0.005						0.253		
3/29/2018			<0.005	<0.005	<0.005				
3/30/2018						0.028			
4/3/2018	<0.005	<0.005					0.23	0.067	
4/4/2018									0.055
6/6/2018				<0.005					
6/7/2018			<0.005		<0.005				
6/12/2018						0.026			
6/27/2018								0.066	
6/28/2018	<0.005	0.0032 (J)					0.23		
8/7/2018	<0.005	0.0031 (J)					0.2	0.061	
9/20/2018									0.041
9/24/2018	0.0015 (J)	0.0026 (J)					0.2	0.061	
9/26/2018			<0.005	<0.005	<0.005				
9/27/2018						0.023			
3/4/2019			<0.005	<0.005	<0.005				
3/6/2019						0.019			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/25/2024 2:27 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
4/3/2019			<0.005	<0.005	<0.005				
4/4/2019						0.017			
8/21/2019	<0.005	0.0024 (J)							
8/22/2019							0.14	0.058	0.047
9/24/2019				<0.005	<0.005				
9/25/2019			<0.005						
9/27/2019						0.018			
10/9/2019	<0.005	0.0026 (J)					0.12	0.052	0.042
2/12/2020	<0.005	0.002 (J)	<0.005	<0.005	<0.005				
3/24/2020		0.002 (J)		<0.005	<0.005				
3/25/2020	<0.005		<0.005				0.099	0.057	0.046
3/26/2020						0.024			
9/22/2020			<0.005	<0.005	<0.005				
9/24/2020	<0.005	0.0016 (J)				0.031			0.046
9/25/2020							0.076	0.046	
2/8/2021				<0.005	<0.005				
2/9/2021			<0.005			0.032	0.073		
2/10/2021	<0.005	<0.005						0.033	0.043
3/2/2021				<0.005	<0.005				
3/3/2021			0.0019 (J)						
3/4/2021	<0.005	<0.005				0.037	0.076	0.037	0.048
8/25/2021						0.032			0.043
8/26/2021	<0.005		<0.005	<0.005	<0.005		0.06	0.027	
9/3/2021		<0.005							
9/27/2021									
2/8/2022	<0.005	0.0014 (J)						0.031	
2/10/2022				<0.005	<0.005	0.039	0.064		0.044
2/11/2022			<0.005						
8/30/2022				<0.005	<0.005				
8/31/2022	<0.005	<0.005	<0.005						
9/1/2022						0.036	0.055	0.027	0.035
2/7/2023	<0.005			<0.005					
2/8/2023		<0.005				0.035	0.056	0.027	0.041
2/9/2023			<0.005		<0.005				
8/15/2023	<0.005	<0.005	<0.005	<0.005	<0.005				
8/16/2023						0.03	0.053	0.023	0.019
2/20/2024	<0.005	<0.005	<0.005	<0.005	<0.005				
2/21/2024						0.031			
2/22/2024							0.048	0.021	0.037

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/25/2024 2:27 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	<0.005
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	<0.005
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	<0.005
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	<0.005
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	<0.005
10/11/2017	
10/12/2017	<0.005
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	<0.005
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	<0.005
9/24/2018	
9/26/2018	
9/27/2018	
3/4/2019	
3/6/2019	

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/25/2024 2:27 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-43
4/3/2019	
4/4/2019	
8/21/2019	<0.005
8/22/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	<0.005
2/12/2020	
3/24/2020	
3/25/2020	<0.005
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	<0.005
2/8/2021	
2/9/2021	<0.005
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	<0.005
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	<0.005
2/8/2022	<0.005
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	<0.005
2/7/2023	
2/8/2023	<0.005
2/9/2023	
8/15/2023	
8/16/2023	<0.005
2/20/2024	
2/21/2024	
2/22/2024	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/25/2024 2:27 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/1/2007			<0.005						
9/11/2007			<0.005						
3/20/2008			<0.005						
8/27/2008			<0.005						
3/3/2009			<0.005						
11/18/2009			<0.005						
3/3/2010			<0.005						
9/8/2010			<0.005						
3/10/2011			<0.005						
9/8/2011			<0.005						
3/5/2012			<0.005						
9/10/2012			<0.005						
2/6/2013			<0.005						
8/12/2013			<0.005						
2/5/2014			<0.005						
8/5/2014			<0.005						
2/4/2015			<0.005						
8/3/2015			<0.005						
2/16/2016			<0.005						
6/1/2016					<0.005	<0.005			
6/2/2016				0.0011 (J)				<0.005	<0.005
7/25/2016						<0.005		<0.005	
7/26/2016				0.0016 (J)	<0.005				<0.005
8/30/2016		0.0017 (J)							
8/31/2016			<0.005						
9/1/2016	0.0086 (J)								
9/13/2016					<0.005	<0.005			
9/14/2016							<0.005		
9/15/2016				0.0014 (J)					<0.005
9/19/2016								<0.005	
11/1/2016					<0.005			<0.005	<0.005
11/2/2016				<0.005					
11/4/2016						<0.005	<0.005		
11/14/2016		<0.005							
11/15/2016	0.0056 (J)								
11/28/2016			<0.005						
12/15/2016							<0.005		
1/10/2017				0.0012 (J)					
1/11/2017					<0.005				<0.005
1/16/2017						<0.005	<0.005	<0.005	
2/21/2017								<0.005	
2/22/2017			<0.005						
2/24/2017		0.0011 (J)							
2/27/2017	0.0098 (J)								
3/1/2017									
3/2/2017					<0.005	<0.005			<0.005
3/3/2017							<0.005		
3/8/2017				<0.005					
4/26/2017				<0.005				<0.005	<0.005
4/27/2017					<0.005	<0.005			
4/28/2017							<0.005		
5/8/2017		<0.005	<0.005						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/25/2024 2:27 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/9/2017	0.0076 (J)								
5/26/2017							<0.005		
6/27/2017					<0.005	<0.005			
6/28/2017							<0.005		<0.005
6/30/2017				<0.005				<0.005	
7/11/2017		<0.005							
7/13/2017	0.0093 (J)								
7/17/2017			<0.005						
10/10/2017		<0.005							
10/11/2017	0.0089 (J)								
10/16/2017			<0.005						
2/19/2018			<0.005						
3/27/2018				<0.005		<0.005		<0.005	
3/28/2018							<0.005		<0.005
3/29/2018					<0.005				
4/2/2018		<0.005							
4/4/2018	<0.01								
8/6/2018			<0.005						
9/19/2018		<0.005							
9/20/2018	0.0081 (J)								
2/25/2019			<0.005						
2/26/2019				<0.005				<0.005	
2/27/2019					<0.005	<0.005	<0.005		<0.005
3/28/2019					<0.005	<0.005			
3/29/2019				0.0019 (J)			<0.005		
4/1/2019								<0.005	<0.005
6/12/2019			<0.005						
8/19/2019			<0.005						
8/20/2019		<0.005							
9/24/2019					<0.005	<0.005	<0.005		
9/25/2019				<0.005				<0.005	<0.005
9/26/2019	0.0077 (J)								
10/8/2019			<0.005						
2/10/2020					<0.005	<0.005			
2/11/2020							<0.005		
2/12/2020				<0.005				<0.005	<0.005
3/17/2020			<0.005						
3/18/2020				<0.005		<0.005			
3/19/2020					<0.005		<0.005	<0.005	<0.005
3/25/2020	0.0085 (J)								
8/26/2020			<0.005						
8/27/2020		<0.005							
9/22/2020			<0.005						
9/23/2020					<0.005	<0.005	<0.005		<0.005
9/24/2020	0.0091 (J)							<0.005	
9/25/2020				<0.005					
2/9/2021	0.0079 (J)								
2/10/2021				<0.005			<0.005		<0.005
2/11/2021								<0.005	
2/12/2021					<0.005	<0.005			
3/1/2021								<0.005	
3/2/2021			<0.005	<0.005					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/25/2024 2:27 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
3/3/2021					<0.005	<0.005	<0.005		<0.005
3/4/2021	0.0058								
8/19/2021		<0.005		<0.005	<0.005	<0.005		<0.005	<0.005
8/20/2021			<0.005						
8/27/2021							<0.005		
9/1/2021	0.0066								
2/8/2022	0.0075	<0.005	<0.005						
2/9/2022					<0.005	<0.005	<0.005		<0.005
2/10/2022				0.0014 (J)					
2/11/2022								<0.005	
8/30/2022			<0.005		<0.005		<0.005		
8/31/2022	0.0062	<0.005		<0.005		<0.005		<0.005	<0.005
2/7/2023			<0.005		<0.005	<0.005	<0.005		
2/8/2023		<0.005		<0.005				<0.005	<0.005
2/9/2023	0.0054								
8/15/2023		<0.005	<0.005	0.0014 (J)	<0.005	<0.005	<0.005		<0.005
8/16/2023	0.0062							<0.005	
2/20/2024		<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005
2/21/2024	0.0055								
2/23/2024				0.001 (J)					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/25/2024 2:27 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/1/2007	
9/11/2007	
3/20/2008	
8/27/2008	
3/3/2009	
11/18/2009	
3/3/2010	
9/8/2010	
3/10/2011	
9/8/2011	
3/5/2012	
9/10/2012	
2/6/2013	
8/12/2013	
2/5/2014	
8/5/2014	
2/4/2015	
8/3/2015	
2/16/2016	
6/1/2016	<0.005
6/2/2016	
7/25/2016	<0.005
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	<0.005
9/15/2016	
9/19/2016	
11/1/2016	<0.005
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	<0.005
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	<0.005
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	<0.005
4/27/2017	
4/28/2017	
5/8/2017	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/25/2024 2:27 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	<0.005
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	<0.005
3/29/2018	
4/2/2018	
4/4/2018	
8/6/2018	
9/19/2018	
9/20/2018	
2/25/2019	
2/26/2019	
2/27/2019	<0.005
3/28/2019	
3/29/2019	
4/1/2019	<0.005
6/12/2019	
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	<0.005
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	<0.005
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	<0.005
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	<0.005
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	<0.005
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/25/2024 2:27 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-3I (bg)
3/3/2021	<0.005
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	<0.005
9/1/2021	
2/8/2022	
2/9/2022	<0.005
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	<0.005
2/7/2023	
2/8/2023	<0.005
2/9/2023	
8/15/2023	
8/16/2023	<0.005
2/20/2024	<0.005
2/21/2024	
2/23/2024	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/25/2024 2:27 PM

Plant Yates Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50
6/8/2016							<0.005	
8/1/2016							<0.005	
9/2/2016			0.0012 (J)					
9/20/2016							<0.005	
11/8/2016							<0.005	
11/14/2016			<0.005					
1/17/2017							<0.005	
2/28/2017			0.0017 (J)					
3/8/2017							<0.005	
5/2/2017							<0.005	
5/9/2017			0.0018 (J)					
7/7/2017							<0.005	
7/13/2017			0.0031 (J)					
9/22/2017			0.0024 (J)					
9/29/2017			0.002 (J)					
10/6/2017			<0.005					
10/12/2017		0.234						
11/21/2017		0.225						
1/11/2018		0.168						
2/20/2018		0.315						
3/30/2018			<0.005				<0.005	
4/3/2018		0.28						
6/12/2018							<0.005	
6/13/2018			0.0024 (J)					
6/29/2018		0.26						
8/6/2018		0.21						
9/24/2018		0.33						
9/26/2018			0.0037 (J)				<0.005	
10/16/2018	<0.005							
3/5/2019							<0.005	
3/6/2019			0.0033 (J)					
4/4/2019			0.0029 (J)				<0.005	
9/26/2019	<0.005		0.0019 (J)				<0.005	
3/25/2020	<0.005		0.0024 (J)					
3/26/2020							<0.005	
9/23/2020							<0.005	
9/24/2020	<0.005							
9/25/2020		0.32						
10/7/2020			<0.005					
2/9/2021		0.28					<0.005	
2/10/2021	<0.005		<0.005					
3/3/2021							<0.005	
3/4/2021	<0.005	0.27	<0.005					
8/25/2021		0.2						
9/1/2021	0.0016 (J)						<0.005	
9/3/2021			<0.005	<0.005				
2/10/2022	0.003 (J)	0.2				0.029	<0.005	
2/11/2022			<0.005	<0.005	0.0025 (J)			
8/31/2022	0.0033 (J)							
9/1/2022		0.17	<0.005	<0.005	0.0041 (J)	0.026		
2/8/2023		0.16		<0.005	0.0057			
2/9/2023	0.0041 (J)		0.0027 (J)			0.028		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/25/2024 2:27 PM

Plant Yates Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50
2/10/2023							<0.005	
8/16/2023	0.0039 (J)		0.0032 (J)	<0.005		0.024	<0.005	
8/17/2023		0.15			0.011			0.0018 (J)
12/20/2023								0.0015 (J)
2/21/2024		0.13		<0.005	0.0099			
2/22/2024						0.024		<0.005
2/23/2024	0.0035 (J)		0.005 (J)				<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/25/2024 2:27 PM

Plant Yates Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							1.2	1.8	
6/7/2016						4.4			<1
7/27/2016						4.7	1.7	1.9	0.08 (J)
7/28/2016									
9/16/2016						4.8		1.7	
9/19/2016							1.8		0.08 (J)
11/2/2016									0.1 (J)
11/3/2016						5.3	0.69 (J)	1.9	
1/11/2017						5.2	<1	1.7	
1/13/2017									<1
3/1/2017							1.8	<1.5	
3/2/2017						5			
3/6/2017									<1
4/26/2017							1.6	1.9	<1
5/2/2017						5			
6/28/2017							<1	<1.5	
6/29/2017						5.2			<1
10/3/2017									
10/4/2017						5.3		1.7	<1
10/5/2017							1.6		
6/5/2018									
6/6/2018									0.049 (J)
6/7/2018							0.68 (J)		
6/11/2018						5.2		0.95 (J)	
9/25/2018						6.1	1	1.5	0.13 (J)
10/16/2018	83.7								
4/2/2019						5.1			
4/3/2019							0.82 (J)	1.3	0.12 (J)
9/24/2019									
9/25/2019						5.5			<1
9/26/2019	46.6						0.64 (J)	1	
3/24/2020						5.4	<1	0.99 (J)	<1
3/25/2020	11.7								
9/23/2020		9.1		152		5.1	0.53 (J)	1.1	
9/24/2020	13.1				438				<1
3/3/2021	16.9	7.9		91.7		5.2	<1	1	<1
3/4/2021					340				
8/25/2021				164					
8/26/2021					338			1.2	
8/27/2021						5.3	0.59 (J)		<1
9/1/2021	94.7	8.3							
2/9/2022						4.8	0.51 (J)	1.1	<1
2/10/2022	120	7.1	305	160	276				
8/30/2022						4.7	0.78 (J)	1.3	
8/31/2022	173								<1
9/1/2022		6.6	324	179	354				
2/7/2023						4.9	0.78 (J)	1.2	<1
2/8/2023		6.7		192	368				
2/9/2023	209		419						
8/15/2023						4.6	0.51 (J)	0.88 (J)	<1
8/16/2023	151		240	177	343				
8/17/2023		6.6							

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/25/2024 2:27 PM

Plant Yates Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
2/20/2024						4.6	<1		<1
2/21/2024			386						
2/22/2024		6.2		208	369				
2/23/2024	237							0.79 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/25/2024 2:27 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	5.2
7/27/2016	
7/28/2016	5.1
9/16/2016	
9/19/2016	4.8
11/2/2016	
11/3/2016	5
1/11/2017	
1/13/2017	4.3
3/1/2017	
3/2/2017	
3/6/2017	4.5
4/26/2017	4.9
5/2/2017	
6/28/2017	
6/29/2017	5.5
10/3/2017	5.8
10/4/2017	
10/5/2017	
6/5/2018	6.1
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	7
10/16/2018	
4/2/2019	3.8
4/3/2019	
9/24/2019	1
9/25/2019	
9/26/2019	
3/24/2020	3
3/25/2020	
9/23/2020	
9/24/2020	3.6
3/3/2021	
3/4/2021	4.5
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	5
2/9/2022	3.9
2/10/2022	
8/30/2022	3.2
8/31/2022	
9/1/2022	
2/7/2023	3.8
2/8/2023	
2/9/2023	
8/15/2023	4.1
8/16/2023	
8/17/2023	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/25/2024 2:27 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-21I (bg)
2/20/2024	3.8
2/21/2024	
2/22/2024	
2/23/2024	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/25/2024 2:27 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			8	20	1.9				
6/7/2016						56			
7/26/2016			7.7	20	1.8				
7/28/2016						57			
8/30/2016									980
8/31/2016									
9/14/2016			7.5	19	1.8				
9/20/2016						68			
11/2/2016			8.2	20					
11/4/2016					2				
11/8/2016						79			
11/16/2016									940
1/12/2017				19	1.9				
1/13/2017			8.1						
1/16/2017						72			
2/24/2017									
2/27/2017									940
3/6/2017			8						
3/7/2017				20	2.1				
3/9/2017						69			
5/1/2017			8.4	20					
5/2/2017					2	60			
5/10/2017									1200
6/27/2017				18	2.1				
6/29/2017			9.2						
7/10/2017						57			
7/11/2017									1300
10/3/2017				16	2.3				
10/5/2017			9.6						
10/11/2017	20					52			
10/12/2017		17					940	400	1100
11/20/2017	24	71					980		
11/21/2017								430	
1/10/2018		66							
1/11/2018	23							390	
1/12/2018							880		
2/19/2018		57.2						414	
2/20/2018	20.6						905		
4/3/2018	24.5	49.4					872	406	
4/4/2018									1020
6/6/2018				8.3					
6/7/2018			8.5		2				
6/12/2018						41.4			
6/27/2018								357	
6/28/2018	22	43.8					869		
8/7/2018	20.7	40.5					879	346	
9/20/2018									810
9/24/2018	21.2	39.7					872	358	
9/26/2018			10.2	7.9	2.3				
9/27/2018						39.6			
3/26/2019		34.3							
3/27/2019	17.7						851		831

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/25/2024 2:27 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
3/28/2019								258	
4/3/2019			8.5	7	2.1				
4/4/2019						27.9			
9/24/2019				5.5	2.4				
9/25/2019			8.5						
9/27/2019						30.3			
10/9/2019	15	27.9					708	263	725
3/24/2020		25.2		5.9	2.1				
3/25/2020	14.3		8.8				483	214	642
3/26/2020						36.5			
9/22/2020			8.2	5.5	2.1				
9/24/2020	11.7	22.9				52.5			579
9/25/2020							414	175	
3/2/2021				2.6	2.3				
3/3/2021			7.8						
3/4/2021	12	21.5				61.7 (M1)	356	117	537
8/25/2021						68			500
8/26/2021	19.2		8.5	6	2.4		328	117	
9/3/2021		21.3							
9/27/2021									
2/8/2022	14.6	17.9						109	
2/10/2022				4.9	2.4	78.7	290		485
2/11/2022			7.7						
8/30/2022				5.7	2.4				
8/31/2022	10.9	17.9	8						
9/1/2022						79	282	117	502
2/7/2023	9.7			5.2					
2/8/2023		17.5				78	251	119	494
2/9/2023			8.9		2.9				
8/15/2023	7.6	16.4	7.5	4.8	2.2				
8/16/2023						69.3	227	104	451
2/20/2024	8.6	17.2	8.5	5.1	2.5				
2/21/2024						81			
2/22/2024							210	109	487

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/25/2024 2:27 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	34
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	240
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	89
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	100
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	110
10/3/2017	
10/5/2017	
10/11/2017	
10/12/2017	120
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
4/3/2018	
4/4/2018	160
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	247
9/24/2018	
9/26/2018	
9/27/2018	
3/26/2019	
3/27/2019	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/25/2024 2:27 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-43
3/28/2019	181
4/3/2019	
4/4/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	279
3/24/2020	
3/25/2020	164
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	281
3/2/2021	
3/3/2021	
3/4/2021	328
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	56.5
2/8/2022	133
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	169
2/7/2023	
2/8/2023	164
2/9/2023	
8/15/2023	
8/16/2023	151
2/20/2024	
2/21/2024	
2/22/2024	147

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/25/2024 2:27 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/1/2016					5	4.2			
6/2/2016				6.6				1.3	5.8
7/25/2016						3.7		1.2	
7/26/2016				6.1	5.4				6.7
8/30/2016		160							
8/31/2016			29						
9/1/2016	95								
9/13/2016					2.9	5.2			
9/14/2016							9.4		
9/15/2016				6.1					6
9/19/2016								1.2	
11/1/2016					3.9			1.3	4.9
11/2/2016				6.3					
11/4/2016						5	13		
11/14/2016		150							
11/15/2016	94								
11/28/2016			36						
12/15/2016							1.8		
1/10/2017				5.9					
1/11/2017					3.7				4.5
1/16/2017						7.9	11	<1.5	
2/21/2017								1.4	
2/22/2017			43						
2/24/2017		120							
2/27/2017	84								
3/1/2017									
3/2/2017					4.6	7.4			4.4
3/3/2017							8.8		
3/8/2017				7					
4/26/2017				7				1.4	5.1
4/27/2017					5.2	7.4			
4/28/2017							10		
5/8/2017		120	60						
5/9/2017	91								
5/26/2017							12		
6/27/2017					5.9	6.4			
6/28/2017							11		5.4
6/30/2017				6.5				<1.5	
7/11/2017		110							
7/13/2017	88								
7/17/2017			63						
10/3/2017					6.6	5.9	7.9		
10/4/2017								1.4	6.2
10/5/2017				7.9					
10/10/2017		93							
10/11/2017	86								
10/16/2017			62						
2/19/2018			64.6						
4/2/2018		88.8							
4/4/2018	76.5								
6/5/2018					6.4				
6/6/2018						4.4			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/25/2024 2:27 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/7/2018							8.8		6.7
6/8/2018				6.4					
6/11/2018								1.1	
8/6/2018			42.1						
9/19/2018		75							
9/20/2018	84.1								
10/1/2018				6.8	5.6	4	9.1		7.1
10/2/2018								1	
2/25/2019			42.1						
3/27/2019		65.9							
3/28/2019	82.8				8	4.3			
3/29/2019				7.3			9		
4/1/2019								0.96 (J)	7.2
6/12/2019			83.4						
9/24/2019					5.3	4.3	9.1		
9/25/2019				6.6				0.81 (J)	7
9/26/2019	80								
10/8/2019		52.3	128						
3/17/2020		71.6	98.6						
3/18/2020				8.1		5.3			
3/19/2020					10		12.4	1.6	9
3/25/2020	76.1								
9/22/2020		51.5	145						
9/23/2020					8.1	3.4	11.8		6.9
9/24/2020	77							0.69 (J)	
9/25/2020				6.1					
3/1/2021		51.6						0.88 (J)	
3/2/2021			156	6					
3/3/2021					9	4.4	10.6		7
3/4/2021	75.1								
8/19/2021		52.6		6.7	8.9	4.9		1	7.5
8/20/2021			121						
8/27/2021							16.7		
9/1/2021	79.8								
2/8/2022	73.9	50.9	107						
2/9/2022					9.3	5.1	18		7.2
2/10/2022				6.2					
2/11/2022								2.8	
8/30/2022			101		10.2		20.1		
8/31/2022	71	48		5.8		4.8		1.1	6.9
2/7/2023			82.4		10.6	6.6	17.8		
2/8/2023		50.5		6.1				0.96 (J)	7.5
2/9/2023	71.1								
8/15/2023		47.7	74.2	6	9.6	4.6	17.2		6.8
8/16/2023	63.8							0.9 (J)	
2/20/2024		51	75		9.7	4.3	23.1	0.69 (J)	7
2/21/2024	65.4								
2/23/2024				7.1					

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/25/2024 2:27 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/1/2016	12
6/2/2016	
7/25/2016	8.4
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	8.6
9/15/2016	
9/19/2016	
11/1/2016	8.9
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	8.6
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	9.3
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	11
4/27/2017	
4/28/2017	
5/8/2017	
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	12
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/3/2017	
10/4/2017	12
10/5/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
4/2/2018	
4/4/2018	
6/5/2018	
6/6/2018	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/25/2024 2:27 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/7/2018	
6/8/2018	9.6
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	9.1
10/2/2018	
2/25/2019	
3/27/2019	
3/28/2019	
3/29/2019	
4/1/2019	8.5
6/12/2019	
9/24/2019	
9/25/2019	13.8
9/26/2019	
10/8/2019	
3/17/2020	
3/18/2020	
3/19/2020	12.9
3/25/2020	
9/22/2020	
9/23/2020	16.8
9/24/2020	
9/25/2020	
3/1/2021	
3/2/2021	
3/3/2021	9.6
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	18.2
9/1/2021	
2/8/2022	
2/9/2022	16
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	13.9
2/7/2023	
2/8/2023	14.7
2/9/2023	
8/15/2023	
8/16/2023	20.3
2/20/2024	13.8
2/21/2024	
2/23/2024	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/25/2024 2:27 PM

Plant Yates Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50
6/8/2016							<1	
8/1/2016							1.1	
9/2/2016			72					
9/20/2016							0.38 (J)	
11/8/2016							0.39 (J)	
11/14/2016			110					
1/17/2017							<1	
2/28/2017			110					
3/8/2017							0.29 (J)	
5/2/2017							0.29 (J)	
5/9/2017			130					
7/7/2017							0.37 (J)	
7/13/2017			140					
9/22/2017			160					
9/29/2017			160					
10/5/2017							<1	
10/6/2017			160					
10/11/2017			150					
10/12/2017		650						
11/21/2017		700						
1/11/2018		590						
2/20/2018		677						
4/3/2018		615						
6/12/2018							0.35 (J)	
6/13/2018			144					
6/29/2018		634						
8/6/2018		623						
9/24/2018		674						
9/26/2018			160				0.28 (J)	
10/16/2018	34.2							
4/4/2019			119				0.29 (J)	
9/26/2019	14.3		84.8				0.23 (J)	
3/25/2020	36.1		58.8					
3/26/2020							<1	
9/23/2020							<1	
9/24/2020	7.2							
9/25/2020		563						
10/7/2020			18.2					
3/3/2021							<1	
3/4/2021	8.8	485	6.3					
8/25/2021		472						
9/1/2021	38.7						<1	
9/3/2021			13.8	153				
2/10/2022	42.6	452				306	<1	
2/11/2022			16.4	115	209			
8/31/2022	67.9							
9/1/2022		490	28.2	381	280	346		
2/8/2023		449		177	279			
2/9/2023	84.6		50.8			370		
2/10/2023							0.5 (J)	
8/16/2023	107		93.9	210		309	<1	
8/17/2023		459			289			1140

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/25/2024 2:27 PM

Plant Yates Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50
12/20/2023								1180
2/21/2024		462		222	309			
2/22/2024						309		1170
2/23/2024	148		156				<1	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/25/2024 2:27 PM

Plant Yates Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							<0.001	<0.001	
6/7/2016						<0.001			<0.001
7/27/2016						<0.001	<0.001	<0.001	<0.001
7/28/2016									
9/16/2016						<0.001		<0.001	
9/19/2016							<0.001		<0.001
11/2/2016									<0.001
11/3/2016						<0.001	<0.001	<0.001	
1/11/2017						<0.001	<0.001	<0.001	
1/13/2017									<0.001
3/1/2017							<0.001	<0.001	
3/2/2017						<0.001			
3/6/2017									<0.001
4/26/2017							<0.001	<0.001	<0.001
5/2/2017						<0.001			
6/28/2017							<0.001	<0.001	
6/29/2017						<0.001			<0.001
3/28/2018						<0.001	<0.001	<0.001	
3/29/2018									<0.001
9/25/2018									
3/5/2019						<0.001		<0.001	<0.001
3/6/2019							<0.001		
4/2/2019						<0.001			
4/3/2019							<0.001	<0.001	<0.001
9/24/2019									
9/25/2019						<0.001			<0.001
9/26/2019	<0.001						<0.001	<0.001	
2/11/2020						<0.001	<0.001	<0.001	
2/12/2020									<0.001
3/24/2020						<0.001	<0.001	<0.001	<0.001
3/25/2020	<0.001								
9/23/2020		<0.001		<0.001		<0.001	<0.001	<0.001	
9/24/2020	<0.001				<0.001				<0.001
2/9/2021	<0.001	<0.001		<0.001	<0.001		<0.001	<0.001	<0.001
2/9/2022						<0.001	<0.001	<0.001	<0.001
2/10/2022	<0.001	<0.001	<0.001	<0.001	<0.001				
8/30/2022						<0.001	<0.001	<0.001	
8/31/2022	<0.001								<0.001
9/1/2022		<0.001	<0.001	<0.001	<0.001				
2/7/2023						<0.001	<0.001	<0.001	<0.001
2/8/2023		<0.001		<0.001	<0.001				
2/9/2023	<0.001		<0.001						
8/15/2023						<0.001	<0.001	<0.001	<0.001
8/16/2023	<0.001		<0.001	<0.001	<0.001				
8/17/2023		<0.001							
2/20/2024						<0.001	<0.001		<0.001
2/21/2024			<0.001						
2/22/2024		<0.001		<0.001	<0.001				
2/23/2024	<0.001							<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/25/2024 2:27 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	<0.001
7/27/2016	
7/28/2016	<0.001
9/16/2016	
9/19/2016	<0.001
11/2/2016	
11/3/2016	<0.001
1/11/2017	
1/13/2017	<0.001
3/1/2017	
3/2/2017	
3/6/2017	<0.001
4/26/2017	<0.001
5/2/2017	
6/28/2017	
6/29/2017	<0.001
3/28/2018	
3/29/2018	<0.001
9/25/2018	<0.001
3/5/2019	<0.001
3/6/2019	
4/2/2019	<0.001
4/3/2019	
9/24/2019	<0.001
9/25/2019	
9/26/2019	
2/11/2020	
2/12/2020	<0.001
3/24/2020	<0.001
3/25/2020	
9/23/2020	
9/24/2020	<0.001
2/9/2021	<0.001
2/9/2022	<0.001
2/10/2022	
8/30/2022	<0.001
8/31/2022	
9/1/2022	
2/7/2023	<0.001
2/8/2023	
2/9/2023	
8/15/2023	<0.001
8/16/2023	
8/17/2023	
2/20/2024	<0.001
2/21/2024	
2/22/2024	
2/23/2024	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/25/2024 2:27 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.001	<0.001	<0.001				
6/7/2016						<0.001			
7/26/2016			<0.001	<0.001	<0.001				
7/28/2016						<0.001			
8/30/2016									<0.001
8/31/2016									
9/14/2016			<0.001	<0.001	<0.001				
9/20/2016						<0.001			
11/2/2016			<0.001	<0.001					
11/4/2016					<0.001				
11/8/2016						<0.001			
11/16/2016									<0.001
1/12/2017				<0.001	<0.001				
1/13/2017			<0.001						
1/16/2017						<0.001			
2/24/2017									
2/27/2017									<0.001
3/6/2017			<0.001						
3/7/2017				<0.001	<0.001				
3/9/2017						<0.001			
5/1/2017			<0.001	<0.001					
5/2/2017					<0.001	<0.001			
5/10/2017									<0.001
6/27/2017				<0.001	<0.001				
6/29/2017			<0.001						
7/10/2017						<0.001			
7/11/2017									<0.001
10/11/2017	<0.001								
10/12/2017		<0.001					<0.001	<0.001	<0.001
11/20/2017	<0.001	<0.001					<0.001		
11/21/2017								<0.001	
1/10/2018		<0.001							
1/11/2018	<0.001							<0.001	
1/12/2018							<0.001		
2/19/2018		<0.001						<0.001	
2/20/2018	<0.001						<0.001		
3/29/2018			<0.001	<0.001	<0.001				
3/30/2018						<0.001			
4/3/2018	<0.001	<0.001					<0.001	<0.001	
4/4/2018									<0.001
6/27/2018								<0.001	
6/28/2018	<0.001	<0.001					<0.001		
8/7/2018	<0.001	<0.001					<0.001	<0.001	
9/20/2018									<0.001
9/24/2018	<0.001	<0.001					<0.001	<0.001	
3/4/2019			<0.001	<0.001	<0.001				
3/6/2019						<0.001			
4/3/2019			<0.001	<0.001	<0.001				
4/4/2019						<0.001			
8/21/2019	<0.001	<0.001							
8/22/2019							<0.001	<0.001	<0.001
9/24/2019				<0.001	<0.001				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/25/2024 2:27 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
9/25/2019			<0.001						
9/27/2019						<0.001			
2/12/2020	<0.001	<0.001	<0.001	<0.001	<0.001				
3/24/2020		<0.001		<0.001	<0.001				
3/25/2020	<0.001		<0.001				<0.001	<0.001	<0.001
3/26/2020						<0.001			
9/22/2020			<0.001	<0.001	<0.001				
9/24/2020	<0.001	<0.001				<0.001			<0.001
9/25/2020							<0.001	<0.001	
2/8/2021				<0.001	<0.001				
2/9/2021			<0.001			<0.001	<0.001		
2/10/2021	<0.001	<0.001						<0.001	<0.001
2/8/2022	<0.001	<0.001						<0.001	
2/10/2022				<0.001	<0.001	<0.001	<0.001		<0.001
2/11/2022			<0.001						
8/30/2022				<0.001	<0.001				
8/31/2022	<0.001	<0.001	<0.001						
9/1/2022						<0.001	<0.001	<0.001	<0.001
2/7/2023	<0.001			<0.001					
2/8/2023		<0.001				<0.001	<0.001	<0.001	<0.001
2/9/2023			<0.001		<0.001				
8/15/2023	<0.001	<0.001	<0.001	<0.001	<0.001				
8/16/2023						<0.001	<0.001	<0.001	<0.001
2/20/2024	<0.001	<0.001	<0.001	<0.001	<0.001				
2/21/2024						<0.001			
2/22/2024							<0.001	<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/25/2024 2:27 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	<0.001
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	<0.001
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	<0.001
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	<0.001
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	<0.001
10/11/2017	
10/12/2017	<0.001
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	<0.001
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	<0.001
9/24/2018	
3/4/2019	
3/6/2019	
4/3/2019	
4/4/2019	
8/21/2019	<0.001
8/22/2019	
9/24/2019	

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/25/2024 2:27 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-43
9/25/2019	
9/27/2019	
2/12/2020	
3/24/2020	
3/25/2020	<0.001
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	<0.001
2/8/2021	
2/9/2021	<0.001
2/10/2021	
2/8/2022	<0.001
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	<0.001
2/7/2023	
2/8/2023	<0.001
2/9/2023	
8/15/2023	
8/16/2023	<0.001
2/20/2024	
2/21/2024	
2/22/2024	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/25/2024 2:27 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/1/2007			<0.001						
9/11/2007			<0.001						
3/20/2008			<0.001						
8/27/2008			<0.001						
3/3/2009			<0.001						
11/18/2009			<0.001						
3/3/2010			<0.001						
9/8/2010			<0.001						
3/10/2011			<0.001						
9/8/2011			<0.001						
3/5/2012			<0.001						
9/10/2012			<0.001						
2/6/2013			<0.001						
8/12/2013			<0.001						
2/5/2014			<0.001						
8/5/2014			<0.001						
2/4/2015			<0.001						
2/16/2016			<0.001						
6/1/2016					<0.001	<0.001			
6/2/2016				<0.001				<0.001	<0.001
7/25/2016						<0.001		<0.001	
7/26/2016				<0.001	<0.001				0.0001 (J)
8/30/2016		<0.001							
8/31/2016			<0.001						
9/1/2016	<0.001								
9/13/2016					<0.001	<0.001			
9/14/2016							<0.001		
9/15/2016				<0.001					<0.001
9/19/2016								<0.001	
11/1/2016					<0.001			<0.001	<0.001
11/2/2016				<0.001					
11/4/2016						<0.001	<0.001		
11/14/2016		<0.001							
11/15/2016	<0.001								
11/28/2016			<0.001						
12/15/2016							<0.001		
1/10/2017				<0.001					
1/11/2017					<0.001				<0.001
1/16/2017						<0.001	<0.001	<0.001	
2/21/2017								<0.001	
2/22/2017			<0.001						
2/24/2017		<0.001							
2/27/2017	9E-05 (J)								
3/1/2017									
3/2/2017					<0.001	<0.001			<0.001
3/3/2017							<0.001		
3/8/2017				<0.001					
4/26/2017				<0.001				<0.001	<0.001
4/27/2017					<0.001	<0.001			
4/28/2017							<0.001		
5/8/2017		<0.001	6E-05 (J)						
5/9/2017	<0.001								

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/25/2024 2:27 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/26/2017							<0.001		
6/27/2017					<0.001	<0.001			
6/28/2017							<0.001		<0.001
6/30/2017				<0.001				<0.001	
7/11/2017		<0.001							
7/13/2017	<0.001								
7/17/2017			6E-05 (J)						
10/10/2017		<0.001							
10/11/2017	<0.001								
10/16/2017			7E-05 (J)						
2/19/2018			<0.001						
3/27/2018				<0.001		<0.001		<0.001	
3/28/2018							<0.001		<0.001
3/29/2018					<0.001				
4/2/2018		<0.001							
4/4/2018	<0.001								
8/6/2018			<0.001						
9/19/2018		<0.001							
9/20/2018	<0.001								
2/25/2019			<0.001						
2/26/2019				<0.001				<0.001	
2/27/2019					<0.001	<0.001	<0.001		<0.001
6/12/2019			<0.001						
8/19/2019			5.5E-05 (J)						
8/20/2019		5.8E-05 (J)							
9/26/2019	<0.001								
10/8/2019		8.4E-05 (J)	<0.001						
2/10/2020					<0.001	5.5E-05 (J)			
2/11/2020							<0.001		
2/12/2020				8.9E-05 (J)				<0.001	<0.001
3/17/2020		<0.001	<0.001						
3/18/2020				<0.001		<0.001			
3/19/2020					<0.001		<0.001	<0.001	<0.001
3/25/2020	<0.001								
8/26/2020			<0.001						
8/27/2020		<0.001							
9/22/2020			<0.001						
9/23/2020					<0.001	<0.001	<0.001		<0.001
9/24/2020	<0.001							<0.001	
9/25/2020				<0.001					
2/9/2021	<0.001								
2/10/2021				<0.001			<0.001		<0.001
2/11/2021								<0.001	
2/12/2021					<0.001	<0.001			
3/2/2021			<0.001						
8/19/2021		<0.001							
8/20/2021			<0.001						
2/8/2022	<0.001	<0.001	<0.001						
2/9/2022					<0.001	<0.001	<0.001		<0.001
2/10/2022				<0.001					
2/11/2022								<0.001	
8/30/2022			<0.001		<0.001		<0.001		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/25/2024 2:27 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
8/31/2022	<0.001	<0.001		<0.001		<0.001		<0.001	<0.001
2/7/2023			<0.001		<0.001	<0.001	<0.001		
2/8/2023		<0.001		<0.001				<0.001	<0.001
2/9/2023	<0.001								
8/15/2023		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001
8/16/2023	<0.001							<0.001	
2/20/2024		<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
2/21/2024	<0.001								
2/23/2024				<0.001					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/25/2024 2:27 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/1/2007	
9/11/2007	
3/20/2008	
8/27/2008	
3/3/2009	
11/18/2009	
3/3/2010	
9/8/2010	
3/10/2011	
9/8/2011	
3/5/2012	
9/10/2012	
2/6/2013	
8/12/2013	
2/5/2014	
8/5/2014	
2/4/2015	
2/16/2016	
6/1/2016	<0.001
6/2/2016	
7/25/2016	<0.001
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	<0.001
9/15/2016	
9/19/2016	
11/1/2016	<0.001
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	<0.001
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	<0.001
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	<0.001
4/27/2017	
4/28/2017	
5/8/2017	
5/9/2017	

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/25/2024 2:27 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/26/2017	
6/27/2017	
6/28/2017	<0.001
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	<0.001
3/29/2018	
4/2/2018	
4/4/2018	
8/6/2018	
9/19/2018	
9/20/2018	
2/25/2019	
2/26/2019	
2/27/2019	<0.001
6/12/2019	
8/19/2019	
8/20/2019	
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	<0.001
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	<0.001
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	0.00016 (J)
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	<0.001
2/11/2021	
2/12/2021	
3/2/2021	
8/19/2021	
8/20/2021	
2/8/2022	
2/9/2022	<0.001
2/10/2022	
2/11/2022	
8/30/2022	

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/25/2024 2:27 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-3I (bg)
8/31/2022	<0.001
2/7/2023	
2/8/2023	<0.001
2/9/2023	
8/15/2023	
8/16/2023	<0.001
2/20/2024	<0.001
2/21/2024	
2/23/2024	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/25/2024 2:27 PM

Plant Yates Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50
6/8/2016							<0.001	
8/1/2016							<0.001	
9/2/2016			<0.001					
9/20/2016							<0.001	
11/8/2016							<0.001	
11/14/2016			<0.001					
1/17/2017							<0.001	
2/28/2017			<0.001					
3/8/2017							<0.001	
5/2/2017							<0.001	
5/9/2017			<0.001					
7/7/2017							<0.001	
7/13/2017			<0.001					
9/22/2017			<0.001					
9/29/2017			<0.001					
10/6/2017			<0.001					
10/12/2017		<0.001						
11/21/2017		<0.001						
1/11/2018		<0.001						
2/20/2018		<0.001						
3/30/2018			<0.001				<0.001	
4/3/2018		<0.001						
6/29/2018		<0.001						
8/6/2018		<0.001						
9/24/2018		<0.001						
3/5/2019							<0.001	
3/6/2019			<0.001					
4/4/2019			<0.001				<0.001	
9/26/2019	<0.001		<0.001				<0.001	
3/25/2020	<0.001		<0.001					
3/26/2020							<0.001	
9/23/2020							<0.001	
9/24/2020	<0.001							
9/25/2020		<0.001						
10/7/2020			<0.001					
2/9/2021		<0.001					<0.001	
2/10/2021	<0.001		<0.001					
2/10/2022	<0.001	<0.001				<0.001	<0.001	
2/11/2022			<0.001	<0.001	<0.001			
8/31/2022	<0.001							
9/1/2022		<0.001	<0.001	<0.001	<0.001	<0.001		
2/8/2023		<0.001		<0.001	<0.001			
2/9/2023	<0.001		<0.001			<0.001		
2/10/2023							<0.001	
8/16/2023	<0.001		<0.001	<0.001		<0.001	<0.001	
8/17/2023		<0.001			<0.001			<0.001
12/20/2023								<0.001
2/21/2024		<0.001		<0.001	<0.001			
2/22/2024						<0.001		<0.001
2/23/2024	<0.001		<0.001				<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/25/2024 2:27 PM

Plant Yates Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							120	58	
6/7/2016						28			38
7/27/2016						74	94	35	74
7/28/2016									
9/16/2016						67		35	
9/19/2016							92		45
11/2/2016									53
11/3/2016						41	104	48	
1/11/2017						104	133	95	
1/13/2017									46
3/1/2017							119	79	
3/2/2017						77			
3/6/2017									164
4/26/2017							162	36	34
5/2/2017						142			
6/28/2017							98	45	
6/29/2017						53			68
10/3/2017									
10/4/2017						61		45	54
10/5/2017							104		
6/5/2018									
6/6/2018									79
6/7/2018							68		
6/11/2018						70		74	
9/25/2018						86	109	63	73
10/16/2018	209								
4/2/2019						72			
4/3/2019							89	63	57
9/24/2019									
9/25/2019						81			75
9/26/2019							126	72	
3/24/2020						71	91	59	76
3/25/2020	139								
9/23/2020		62		329		99	103	81	
9/24/2020	106				788				69
3/3/2021	121	40		245		57	95	37	53
3/4/2021					604				
8/25/2021				332					
8/26/2021					570			31	
8/27/2021						93	112		67
9/1/2021	219	60							
2/9/2022						81	103	60	72
2/10/2022	281	48	606	346	499				
8/30/2022						81	100	52	
8/31/2022	336								62
9/1/2022		52	632	358	662				
2/7/2023						78	96	55	89
2/8/2023		190		402	660				
2/9/2023	347		727						
8/15/2023						74	96	81	62
8/16/2023	363		587	416	716				
8/17/2023		55							

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/25/2024 2:27 PM

Plant Yates Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
2/20/2024						77	129		164
2/21/2024			753						
2/22/2024		55		424	681				
2/23/2024	454							52	

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/25/2024 2:27 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	60
7/27/2016	
7/28/2016	81
9/16/2016	
9/19/2016	68
11/2/2016	
11/3/2016	61
1/11/2017	
1/13/2017	76
3/1/2017	
3/2/2017	
3/6/2017	167
4/26/2017	50
5/2/2017	
6/28/2017	
6/29/2017	94
10/3/2017	149
10/4/2017	
10/5/2017	
6/5/2018	109
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	122
10/16/2018	
4/2/2019	134
4/3/2019	
9/24/2019	157
9/25/2019	
9/26/2019	
3/24/2020	117
3/25/2020	
9/23/2020	
9/24/2020	113
3/3/2021	
3/4/2021	110
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	137
2/9/2022	131
2/10/2022	
8/30/2022	122
8/31/2022	
9/1/2022	
2/7/2023	163
2/8/2023	
2/9/2023	
8/15/2023	126
8/16/2023	
8/17/2023	

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/25/2024 2:27 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-21I (bg)
2/20/2024	156
2/21/2024	
2/22/2024	
2/23/2024	

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/25/2024 2:27 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			96	160	66				
6/7/2016						130			
7/26/2016			92	177	78				
7/28/2016						119			
8/30/2016									1650
8/31/2016									
9/14/2016			102	187	73				
9/20/2016						132			
11/2/2016			115	181					
11/4/2016					75				
11/8/2016						146			
11/16/2016									1420
1/12/2017				202	86				
1/13/2017			67						
1/16/2017						194			
2/24/2017									
2/27/2017									1640
3/6/2017			159						
3/7/2017				257	108				
3/9/2017						288			
5/1/2017			107	165					
5/2/2017					103	221			
5/10/2017									1630
6/27/2017				189	73				
6/29/2017			79						
7/10/2017						123			
7/11/2017									1800
10/3/2017				170	89				
10/5/2017			95						
10/11/2017	68					100			
10/12/2017		74					1360	636	1600
11/20/2017	139	179					1390		
11/21/2017								706	
1/10/2018		140							
1/11/2018	153							701	
1/12/2018							1400		
2/19/2018		119						630	
2/20/2018	87						1300		
4/3/2018	85	106					1390	660	
4/4/2018									1520
6/6/2018				151					
6/7/2018			90		142				
6/12/2018						115			
6/27/2018								575	
6/28/2018	88	112					1310		
8/7/2018	89	103					1340	574	
9/20/2018									1240
9/24/2018	82	107					1400	588	
9/26/2018			116	144	86				
9/27/2018						105			
3/26/2019		90							
3/27/2019	75						1190		1100

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/25/2024 2:27 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
3/28/2019								372	
4/3/2019			111	142	83				
4/4/2019						85			
9/24/2019				129	79				
9/25/2019			117						
9/27/2019						96			
10/9/2019	119	98					1100	440	1170
3/24/2020		84		139	68				
3/25/2020	158		146				883	428	1200
3/26/2020						110			
9/22/2020			83	104	75				
9/24/2020	170	77				129			1060
9/25/2020							664	307	
3/2/2021				52	67				
3/3/2021			80						
3/4/2021	168	57				96	600	224	501
8/25/2021						141			886
8/26/2021	249		93	123	86		562	225	
9/3/2021		88							
9/27/2021									
2/8/2022	248	93						226	
2/10/2022				127	77	180	541		882
2/11/2022			102						
8/30/2022				148	86				
8/31/2022	242	92	92						
9/1/2022						191	499	205	934
2/7/2023	224			180					
2/8/2023		115				158	579	257	853
2/9/2023			124		59				
8/15/2023	225	83	99	219	76				
8/16/2023						170	460	266	904
2/20/2024	233	109	140	639 (o)	137				
2/21/2024						192			
2/22/2024							403	224	881

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/25/2024 2:27 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	80
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	112
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	147
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	203
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	238
10/3/2017	
10/5/2017	
10/11/2017	
10/12/2017	287
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
4/3/2018	
4/4/2018	292
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	434
9/24/2018	
9/26/2018	
9/27/2018	
3/26/2019	
3/27/2019	

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/25/2024 2:27 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-43
3/28/2019	323
4/3/2019	
4/4/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	501
3/24/2020	
3/25/2020	352
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	494
3/2/2021	
3/3/2021	
3/4/2021	592
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	158
2/8/2022	294
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	366
2/7/2023	
2/8/2023	333
2/9/2023	
8/15/2023	
8/16/2023	356
2/20/2024	
2/21/2024	
2/22/2024	313

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/25/2024 2:27 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/1/2016					120	54			
6/2/2016				46				36	130
7/25/2016						48		50	
7/26/2016				54	94				141
8/30/2016		319							
8/31/2016			209						
9/1/2016	228								
9/13/2016					105	67			
9/14/2016							152		
9/15/2016				54					153
9/19/2016								35	
11/1/2016					44			<25	92
11/2/2016				71					
11/4/2016						60	148		
11/14/2016		280							
11/15/2016	211								
11/28/2016			102						
12/15/2016							191		
1/10/2017				45					
1/11/2017					107				159
1/16/2017						65	180	47	
2/21/2017								<25	
2/22/2017			164						
2/24/2017		162							
2/27/2017	382								
3/1/2017									
3/2/2017					98	61			117
3/3/2017							156		
3/8/2017				178					
4/26/2017				52				55	181
4/27/2017					116	31			
4/28/2017							130		
5/8/2017		194	145						
5/9/2017	154								
5/26/2017							223		
6/27/2017					89	42			
6/28/2017							166		169
6/30/2017				45				42	
7/11/2017		193							
7/13/2017	192								
7/17/2017			185						
10/3/2017					119	58	153		
10/4/2017								31	141
10/5/2017				40					
10/10/2017		175							
10/11/2017	177								
10/16/2017			218						
2/19/2018			173						
4/2/2018		192							
4/4/2018	174								
6/5/2018					127				
6/6/2018						96			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/25/2024 2:27 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/7/2018							146		95
6/8/2018				114					
6/11/2018								59	
8/6/2018			158						
9/19/2018		186							
9/20/2018	186								
10/1/2018				50	117	60	155		165
10/2/2018								57	
2/25/2019			92						
3/27/2019		170							
3/28/2019	164				87	87			
3/29/2019				63			150		
4/1/2019								54	149
6/12/2019			226						
9/24/2019					124	54	146		
9/25/2019				64				51	157
9/26/2019	192								
10/8/2019		172	276						
3/17/2020		165	185						
3/18/2020				57		35			
3/19/2020					116		148	47	146
3/25/2020	130								
9/22/2020		141	281						
9/23/2020					108	15	161		157
9/24/2020	187							51	
9/25/2020				54					
3/1/2021		145						23	
3/2/2021			296	67					
3/3/2021					99	39	138		137
3/4/2021	145								
8/19/2021		134		54	105	44		50	144
8/20/2021			254						
8/27/2021							150		
9/1/2021	163								
2/8/2022	164	151	283						
2/9/2022					105	57	156		154
2/10/2022				56					
2/11/2022								66	
8/30/2022			244		116		153		
8/31/2022	207	116		51		46		33	141
2/7/2023			207		131	121	159		
2/8/2023		141		56				43	144
2/9/2023	145								
8/15/2023		186	230	69	121	65	157		231
8/16/2023	159							48	
2/20/2024		159	214		130	59	159	55	294
2/21/2024	173								
2/23/2024				64					

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/25/2024 2:27 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/1/2016	150
6/2/2016	
7/25/2016	135
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	127
9/15/2016	
9/19/2016	
11/1/2016	75
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	148
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	182
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	92
4/27/2017	
4/28/2017	
5/8/2017	
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	126
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/3/2017	
10/4/2017	147
10/5/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
4/2/2018	
4/4/2018	
6/5/2018	
6/6/2018	

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/25/2024 2:27 PM

Plant Yates Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/7/2018	
6/8/2018	158
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	138
10/2/2018	
2/25/2019	
3/27/2019	
3/28/2019	
3/29/2019	
4/1/2019	19 (J)
6/12/2019	
9/24/2019	
9/25/2019	159
9/26/2019	
10/8/2019	
3/17/2020	
3/18/2020	
3/19/2020	148
3/25/2020	
9/22/2020	
9/23/2020	155
9/24/2020	
9/25/2020	
3/1/2021	
3/2/2021	
3/3/2021	111
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	155
9/1/2021	
2/8/2022	
2/9/2022	145
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	137
2/7/2023	
2/8/2023	145
2/9/2023	
8/15/2023	
8/16/2023	148
2/20/2024	220
2/21/2024	
2/23/2024	

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/25/2024 2:27 PM

Plant Yates Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50
6/8/2016							66	
8/1/2016							56	
9/2/2016			243					
9/20/2016							53	
11/8/2016							58	
11/14/2016			272					
1/17/2017							56	
2/28/2017			306					
3/8/2017							192	
5/2/2017							113	
5/9/2017			303					
7/7/2017							46	
7/13/2017			282					
9/22/2017			309					
9/29/2017			273					
10/5/2017							48	
10/6/2017			287					
10/11/2017			264					
10/12/2017		1060						
11/21/2017		1100						
1/11/2018		1020						
2/20/2018		1050						
4/3/2018		1080						
6/12/2018							79	
6/13/2018			292					
6/29/2018		979						
8/6/2018		1020						
9/24/2018		1090						
9/26/2018			277				59	
10/16/2018	123							
4/4/2019			240				63	
9/26/2019			198				81	
3/25/2020	84		164					
3/26/2020							67	
9/23/2020							87	
9/24/2020	100							
9/25/2020		878						
10/7/2020			137					
3/3/2021							70	
3/4/2021	59	856	69					
8/25/2021		876						
9/1/2021	128						96	
9/3/2021			89	374				
2/10/2022	130	798				574	78	
2/11/2022			81	382	456			
8/31/2022	173							
9/1/2022		908	108	916	544	622		
2/8/2023		822		477	542			
2/9/2023	196		116			582		
2/10/2023							66	
8/16/2023	256		234	505		612	68	
8/17/2023		938			600			2010

Time Series

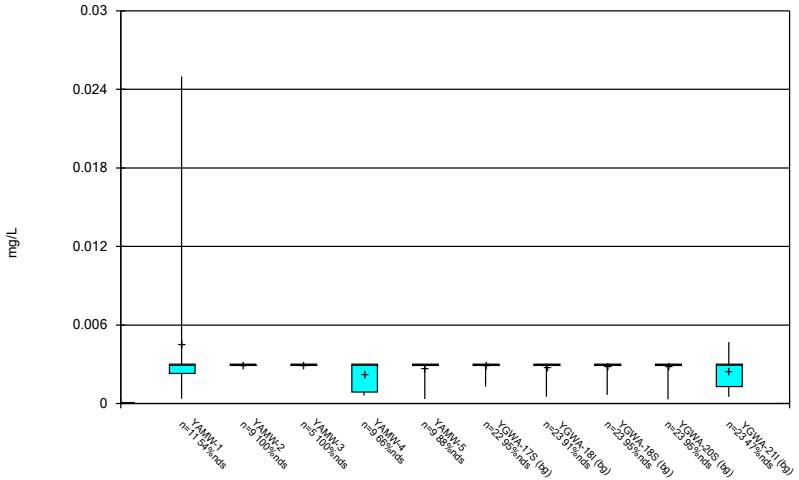
Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/25/2024 2:27 PM

Plant Yates Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50
12/20/2023								1930
2/21/2024		834		548	557			
2/22/2024						556		1930
2/23/2024	299		308				75	

FIGURE B.

Box & Whiskers Plot



Constituent: Antimony Analysis Run 4/25/2024 2:27 PM
Plant Yates Data: Plant Yates AMA-R6

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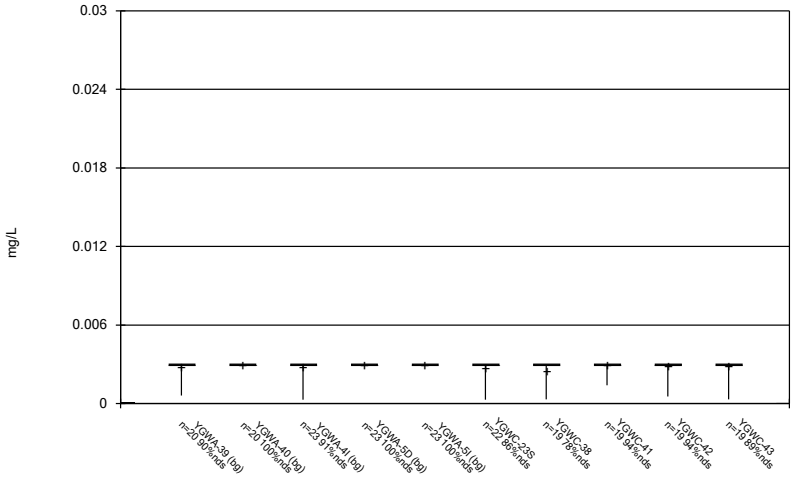
Box & Whiskers Plot



Constituent: Antimony Analysis Run 4/25/2024 2:27 PM
Plant Yates Data: Plant Yates AMA-R6

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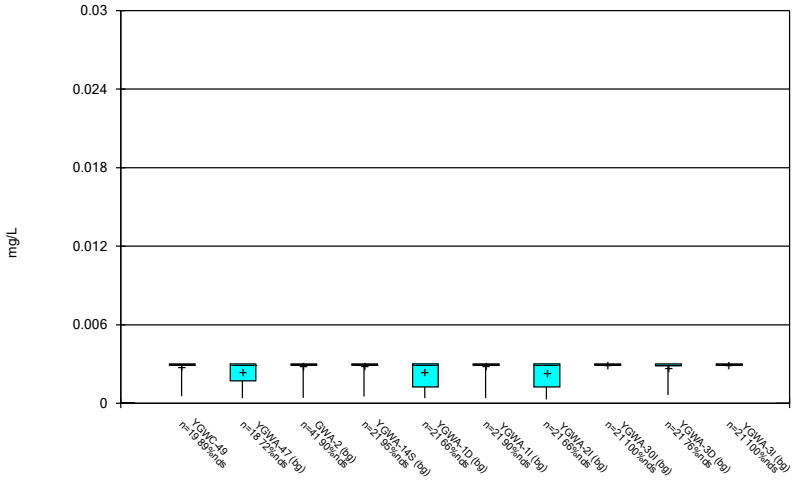
Box & Whiskers Plot



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Plant Yates Data: Plant Yates AMA-R6

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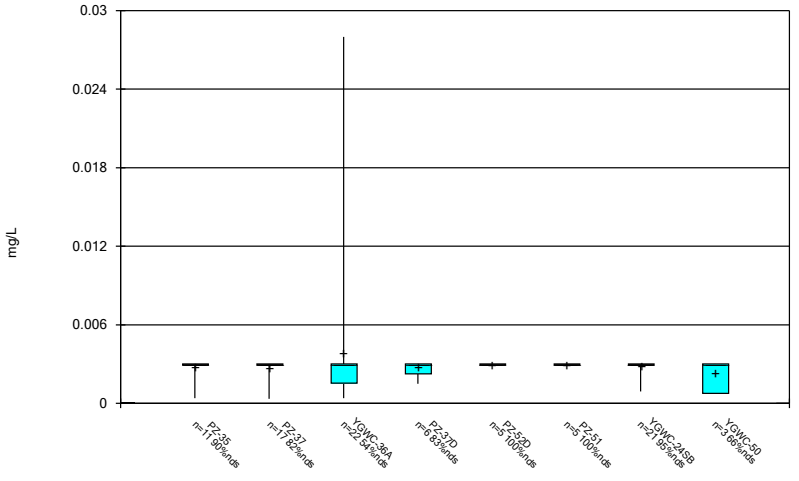
Box & Whiskers Plot



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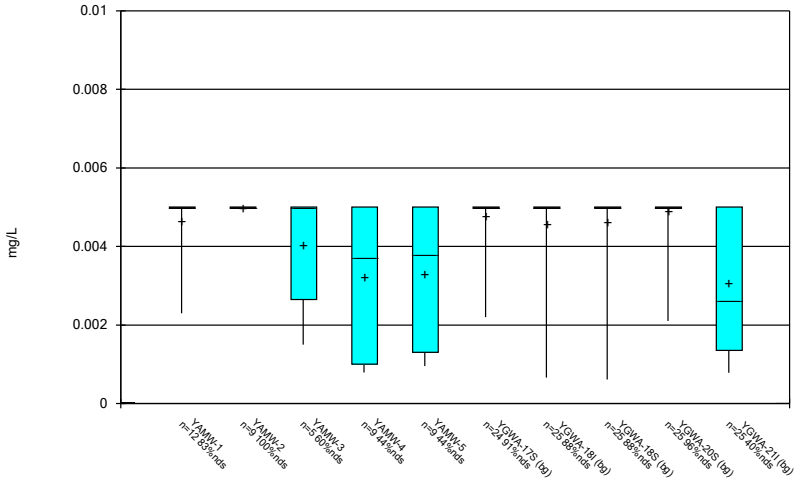
Plant Yates Data: Plant Yates AMA-R6

Box & Whiskers Plot



Constituent: Arsenic Analysis Run 4/25/2024 2:27 PM
Plant Yates Data: Plant Yates AMA-R6

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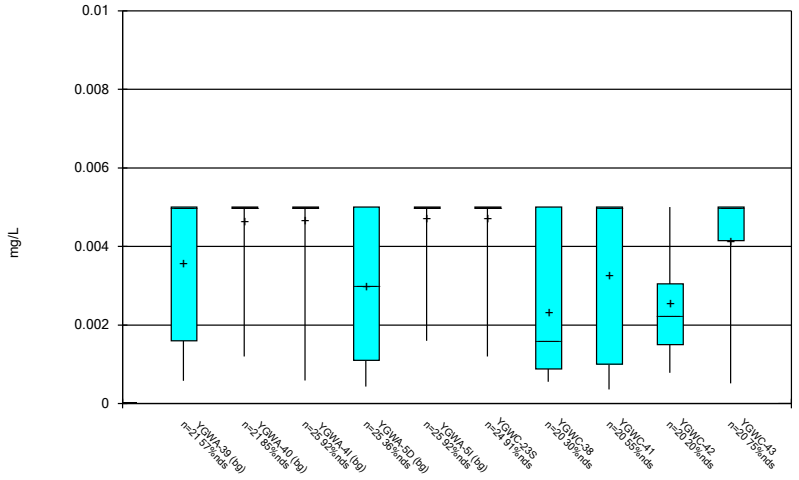
Box & Whiskers Plot



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Plant Yates Data: Plant Yates AMA-R6

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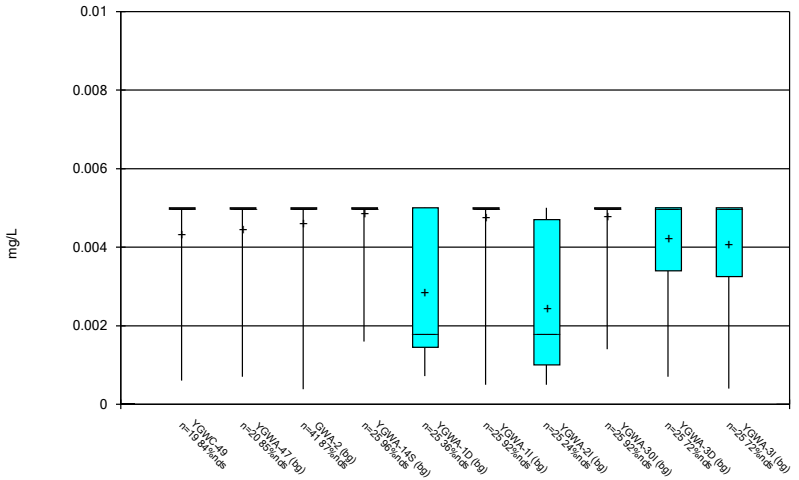
Box & Whiskers Plot



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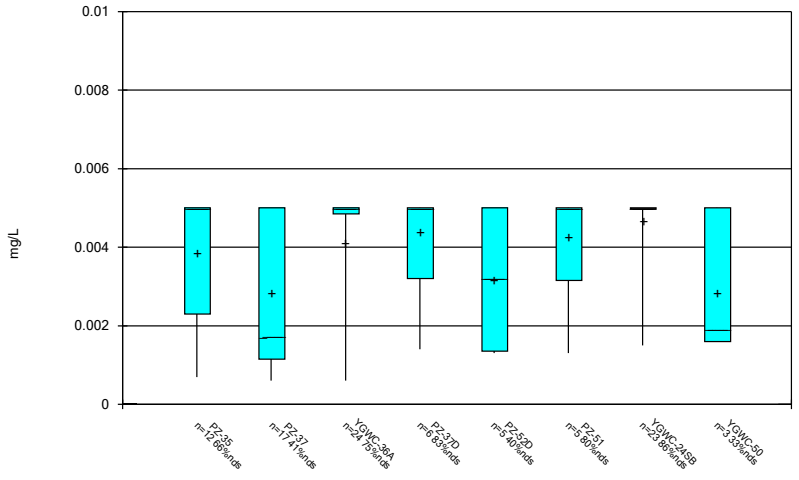

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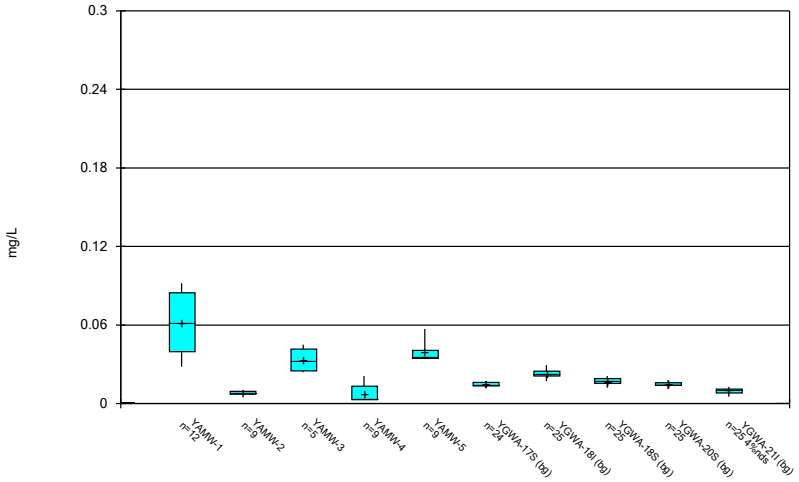
Plant Yates Data: Plant Yates AMA-R6

Box & Whiskers Plot



Constituent: Barium Analysis Run 4/25/2024 2:27 PM
Plant Yates Data: Plant Yates AMA-R6

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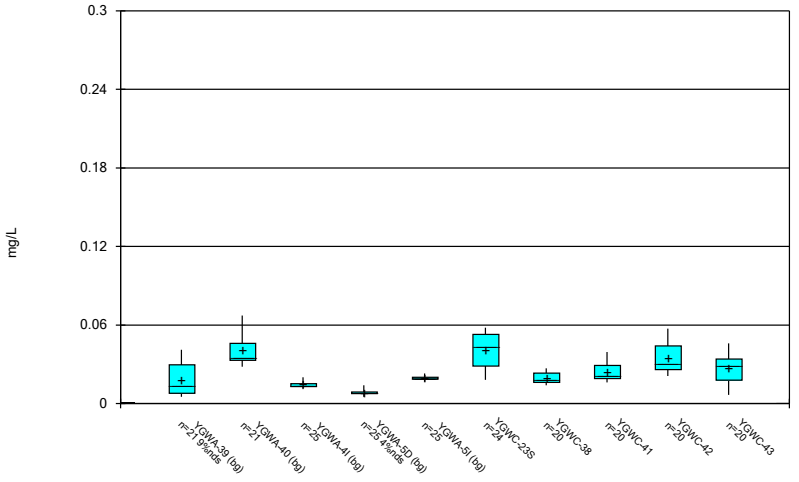
Box & Whiskers Plot



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Plant Yates Data: Plant Yates AMA-R6

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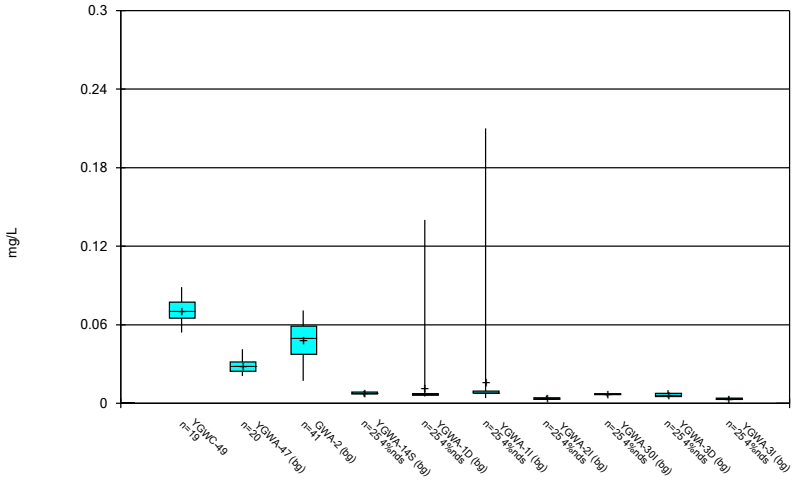
Box & Whiskers Plot



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Plant Yates Data: Plant Yates AMA-R6

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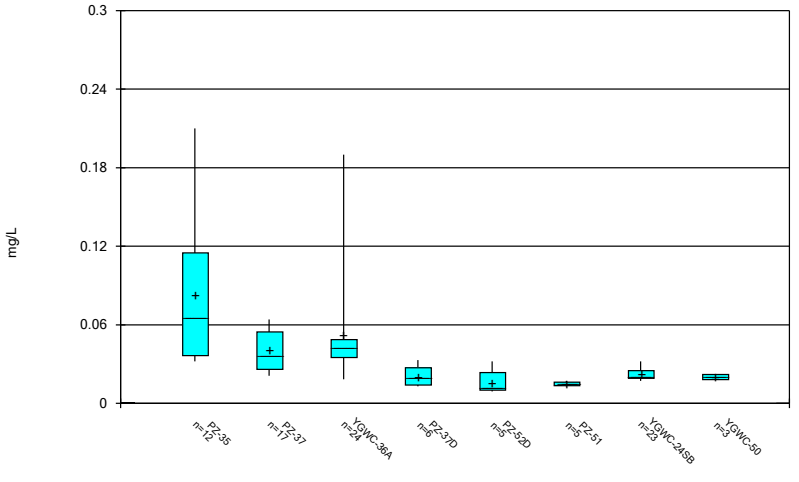
Box & Whiskers Plot



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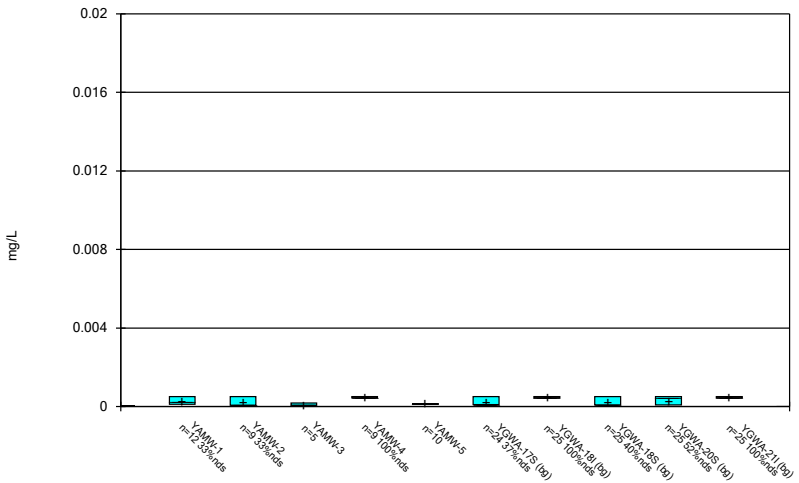
Plant Yates Data: Plant Yates AMA-R6

Box & Whiskers Plot



Constituent: Beryllium Analysis Run 4/25/2024 2:27 PM
Plant Yates Data: Plant Yates AMA-R6

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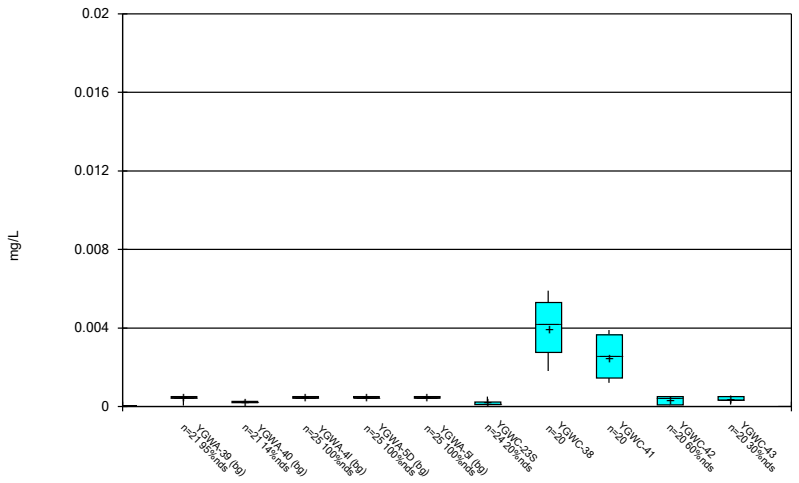
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 4/25/2024 2:27 PM
Plant Yates Data: Plant Yates AMA-R6

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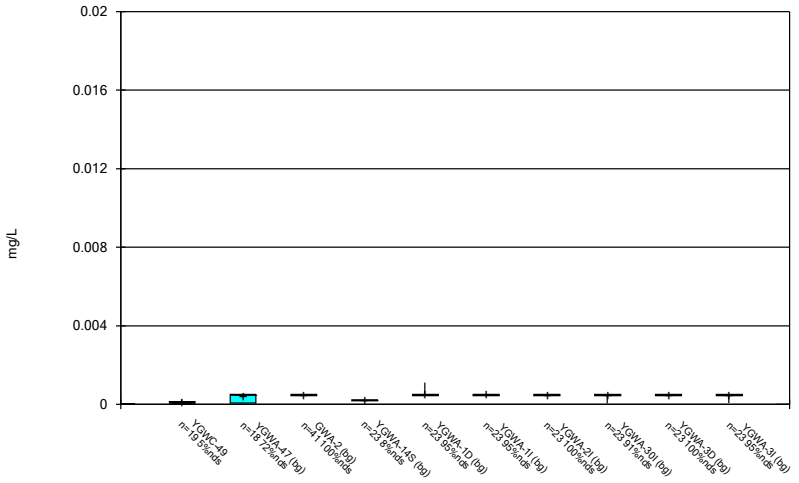
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 4/25/2024 2:27 PM
Plant Yates Data: Plant Yates AMA-R6

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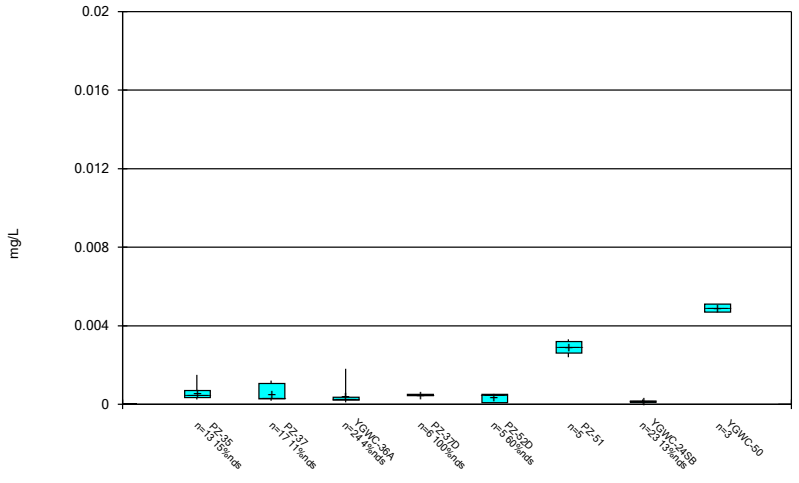
Box & Whiskers Plot



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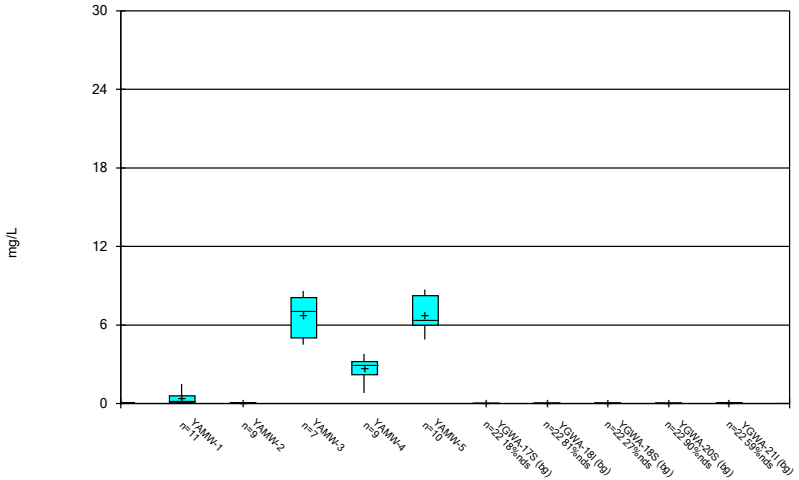
Plant Yates Data: Plant Yates AMA-R6

Box & Whiskers Plot



Constituent: Boron Analysis Run 4/25/2024 2:27 PM
Plant Yates Data: Plant Yates AMA-R6

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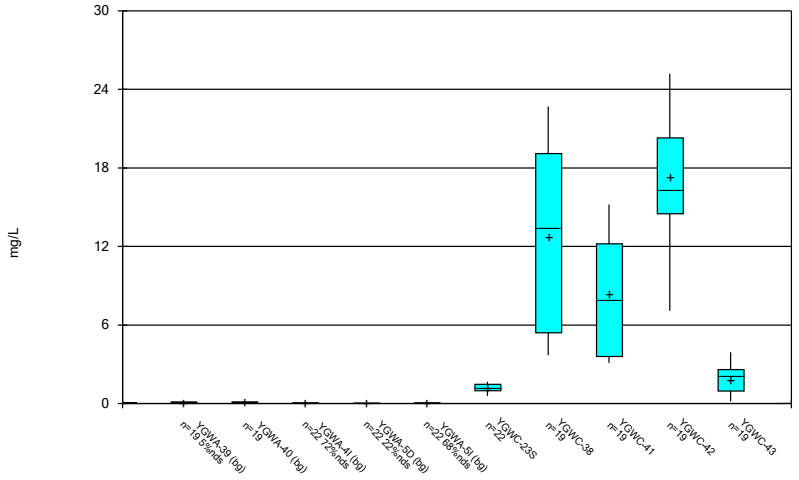
Box & Whiskers Plot



Constituent: Boron Analysis Run 4/25/2024 2:27 PM
Plant Yates Data: Plant Yates AMA-R6

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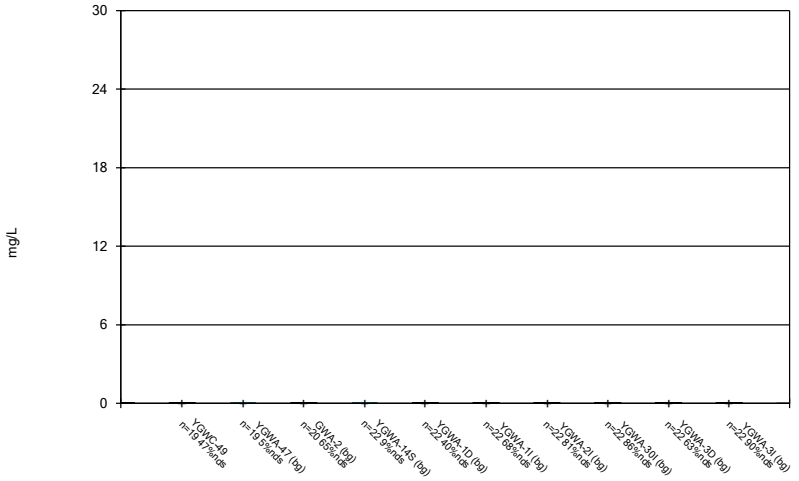
Box & Whiskers Plot



Constituent: Boron Analysis Run 4/25/2024 2:27 PM
Plant Yates Data: Plant Yates AMA-R6

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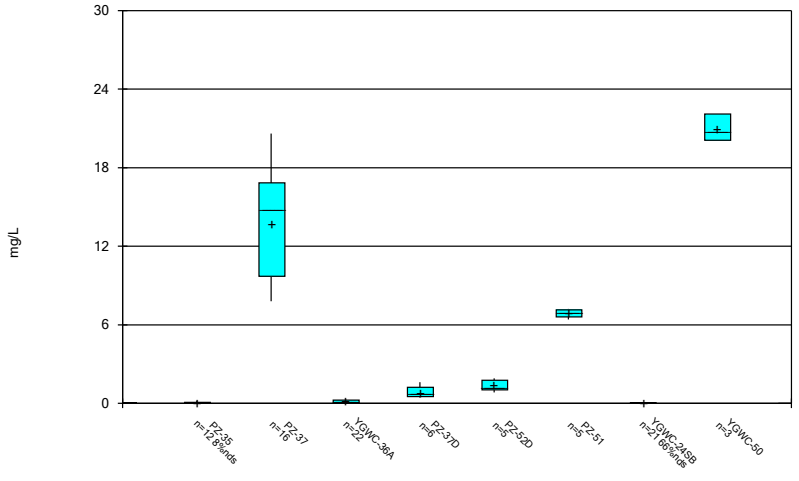
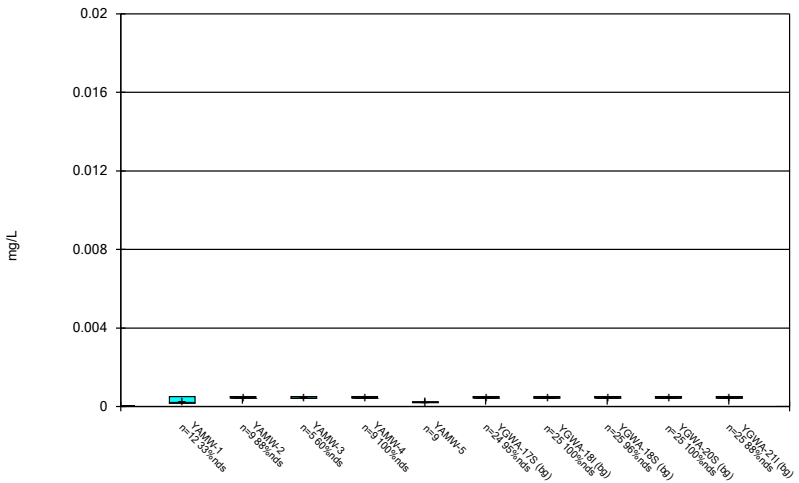
Box & Whiskers Plot



Constituent: Boron Analysis Run 4/25/2024 2:27 PM
Plant Yates Data: Plant Yates AMA-R6

Box & Whiskers Plot



Constituent: Cadmium Analysis Run 4/25/2024 2:27 PM
Plant Yates Data: Plant Yates AMA-R6

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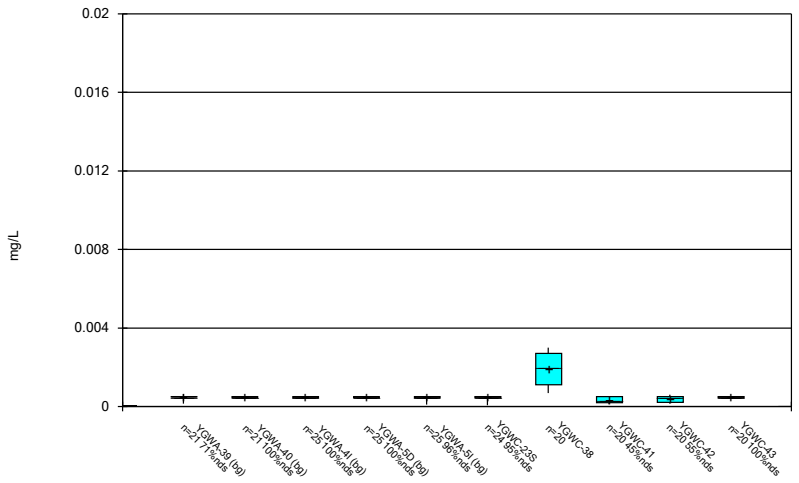
Box & Whiskers Plot



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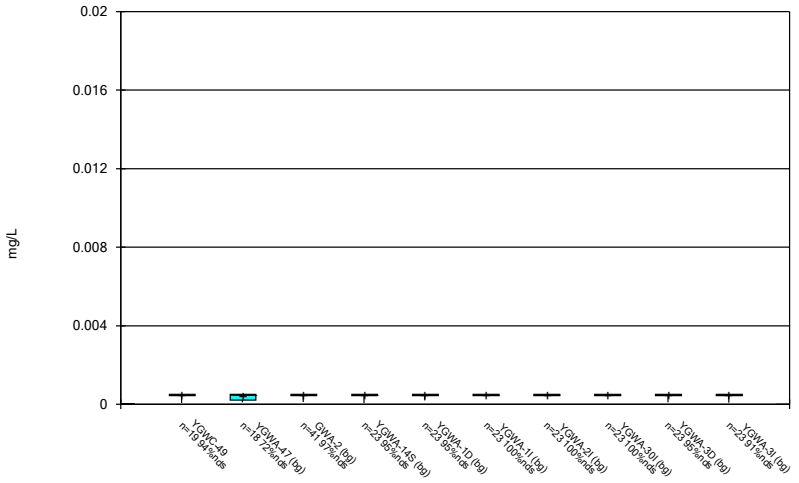

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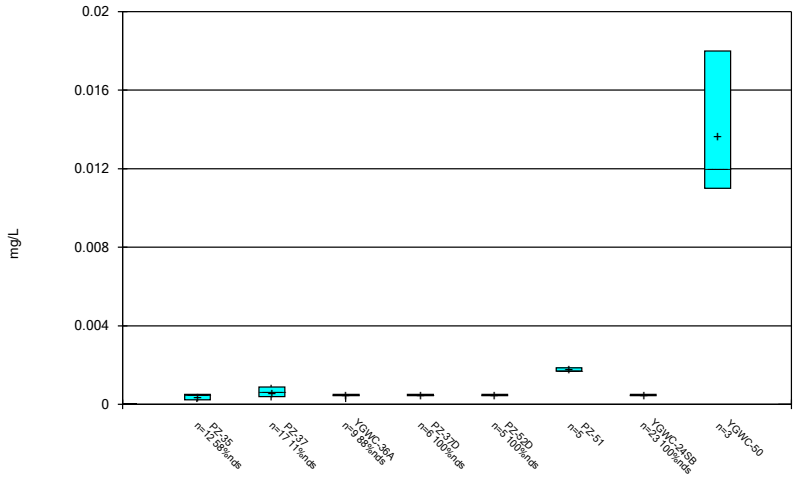

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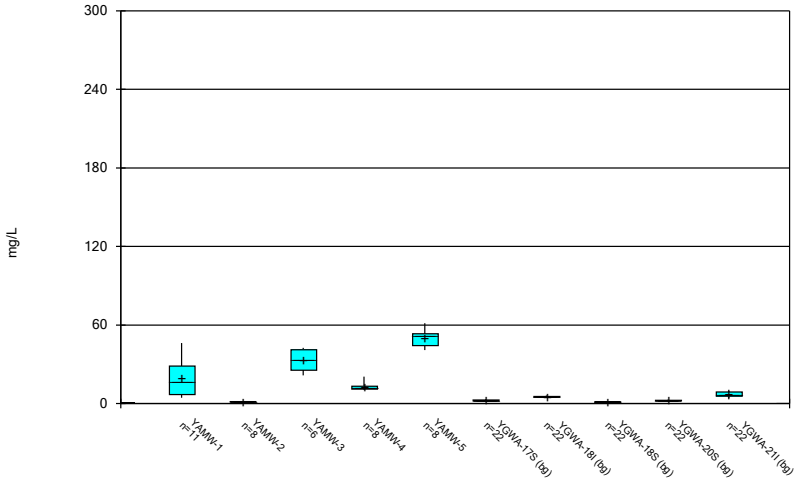

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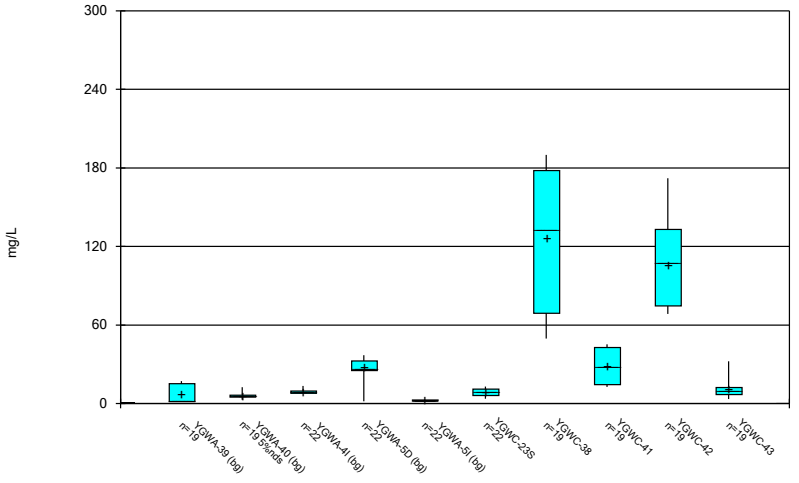

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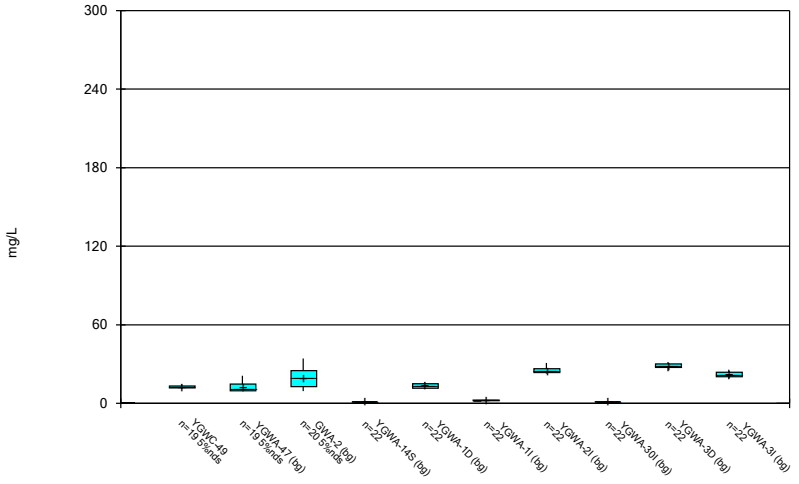

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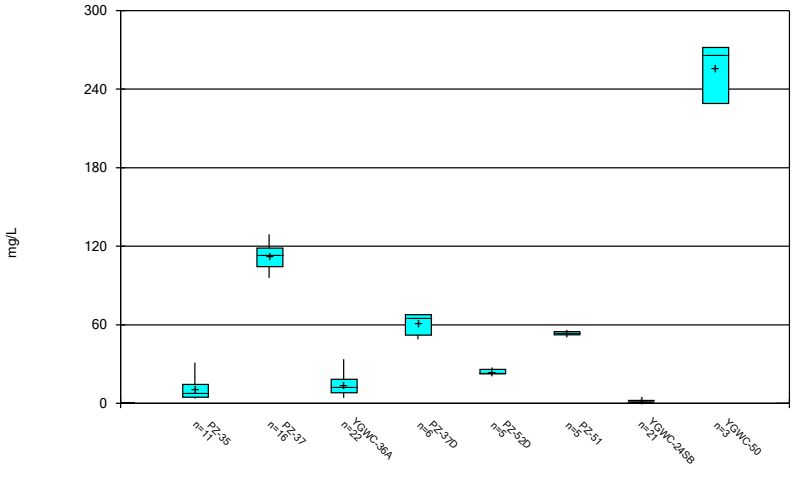

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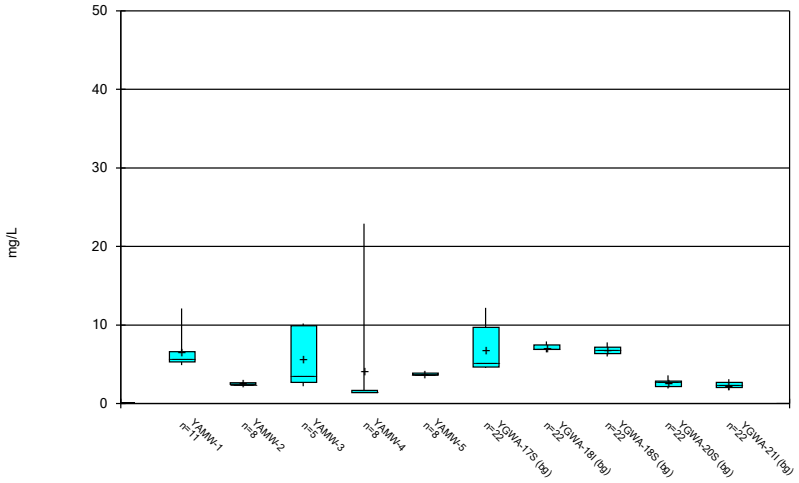

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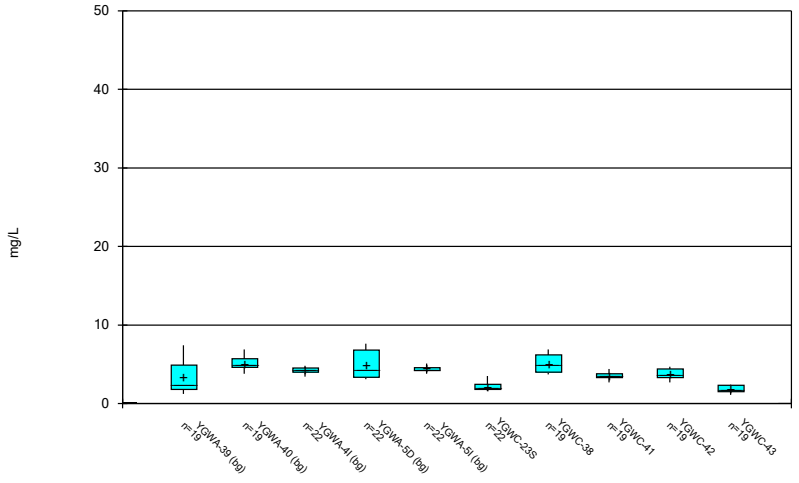
Box & Whiskers Plot



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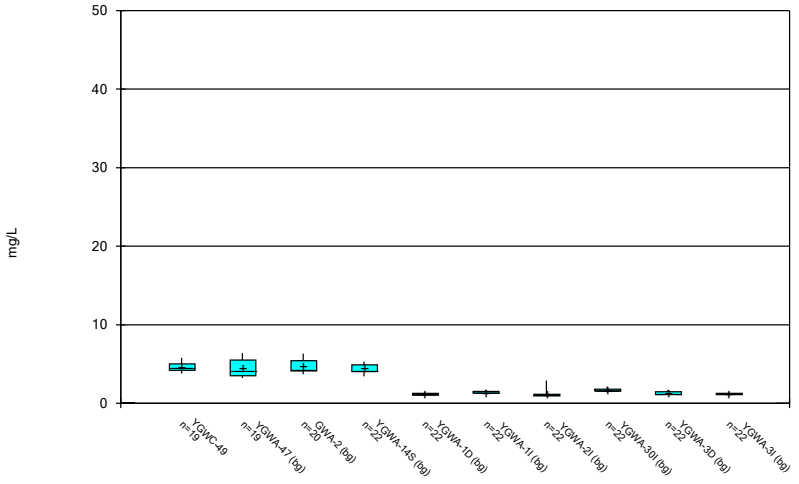

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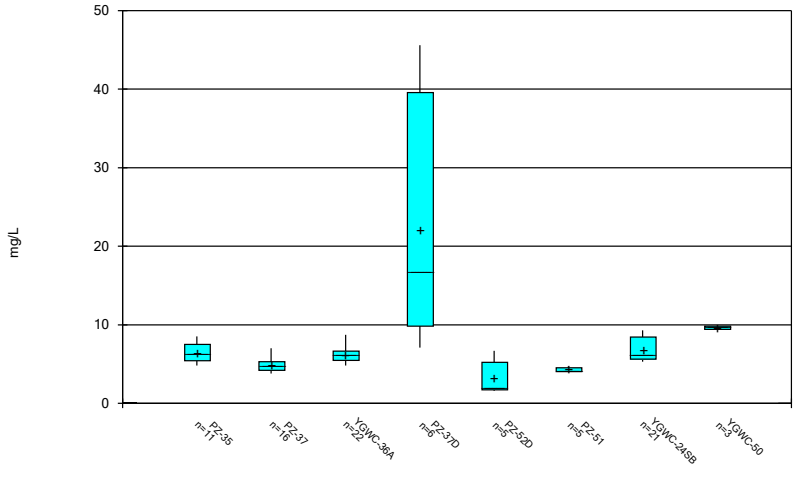

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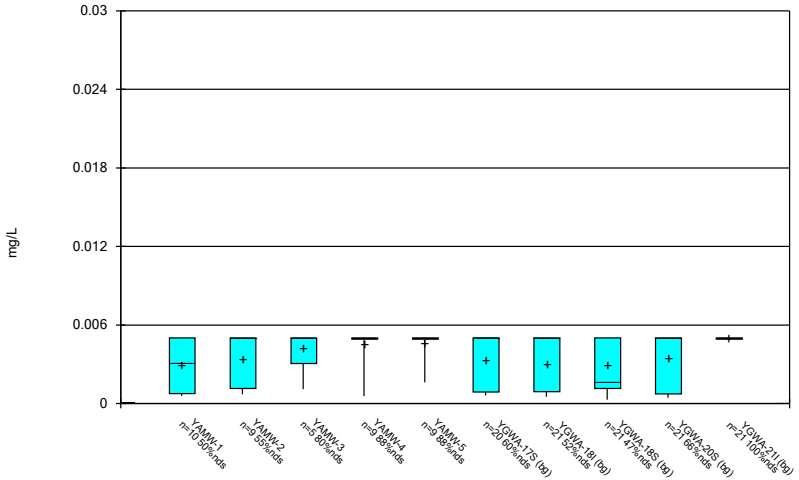

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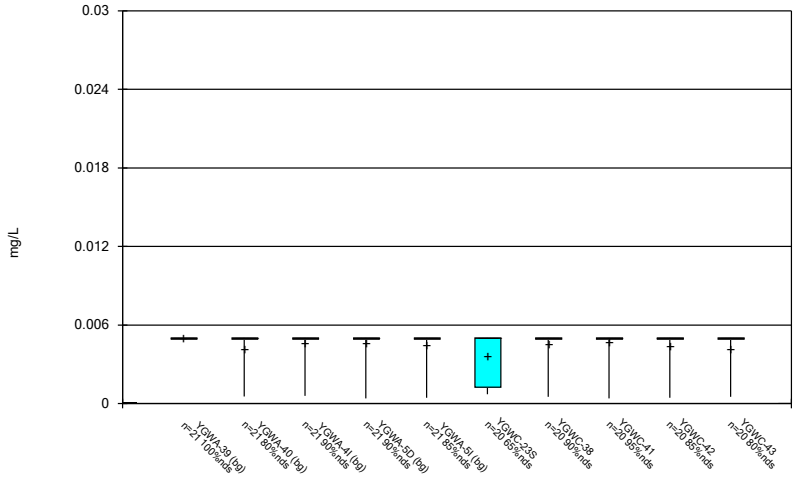

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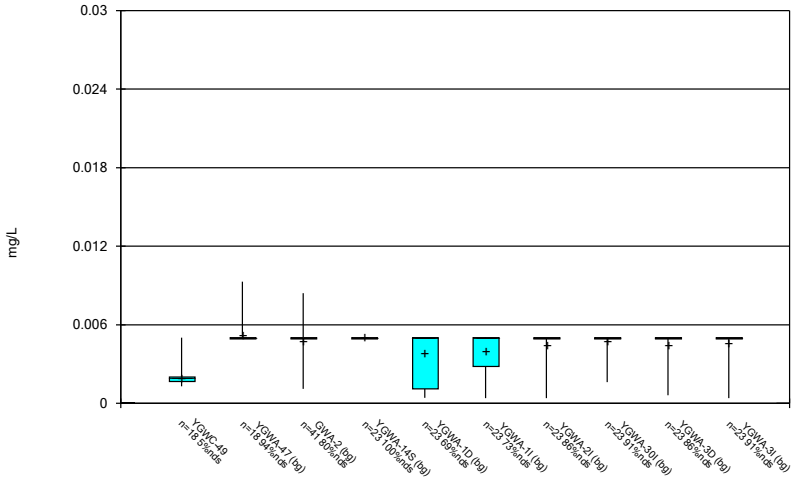

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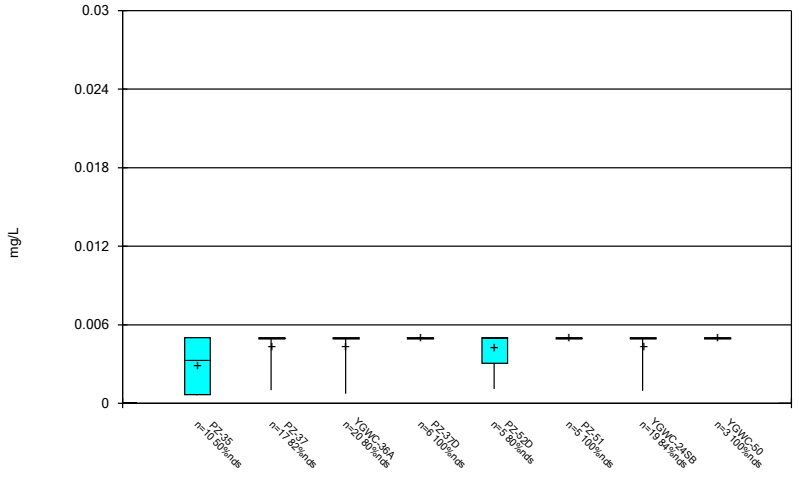

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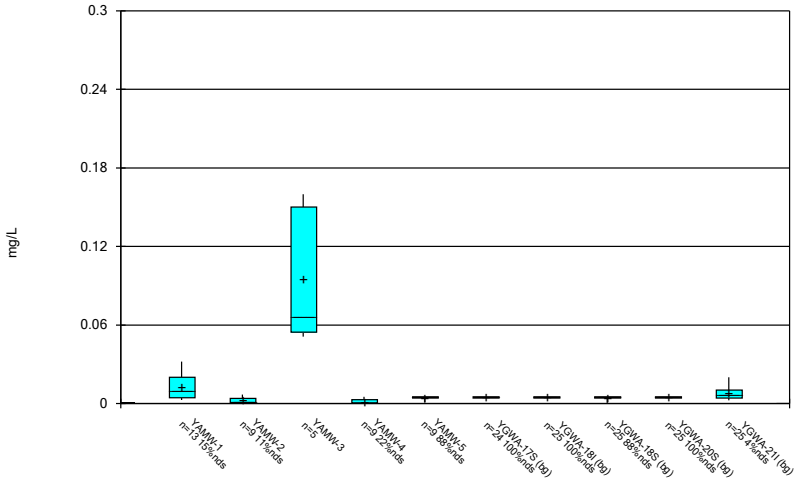

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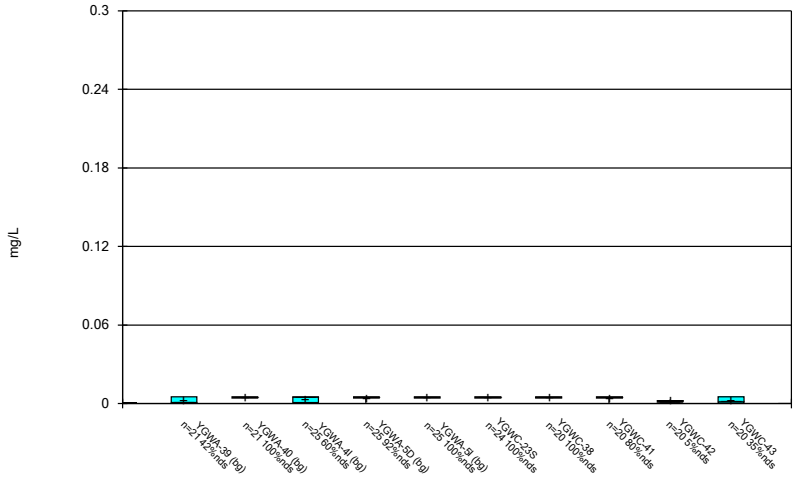

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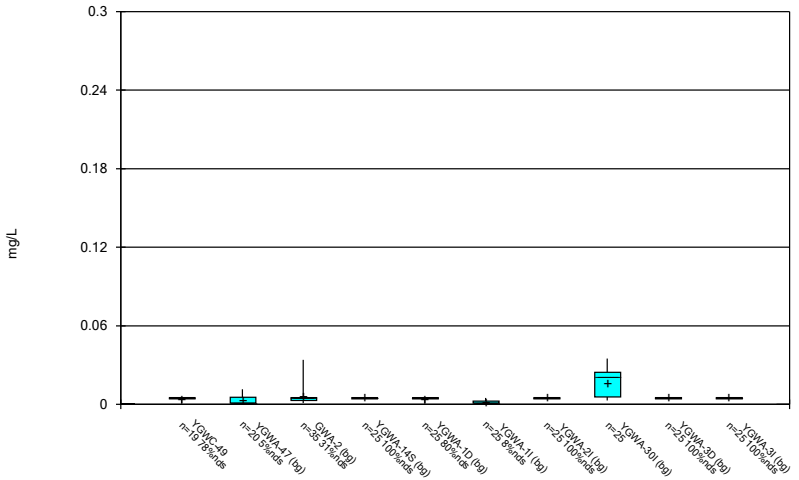

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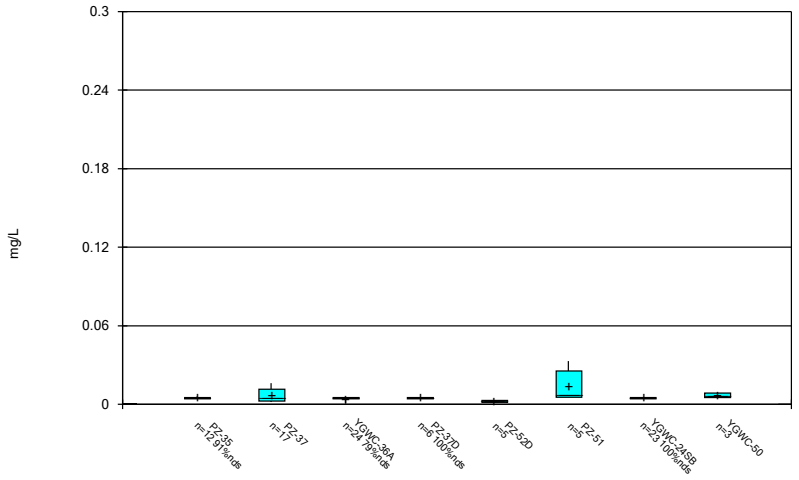

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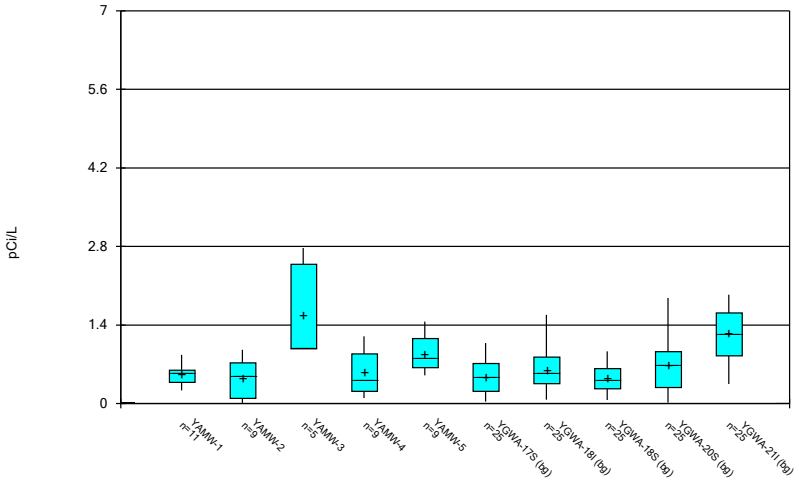

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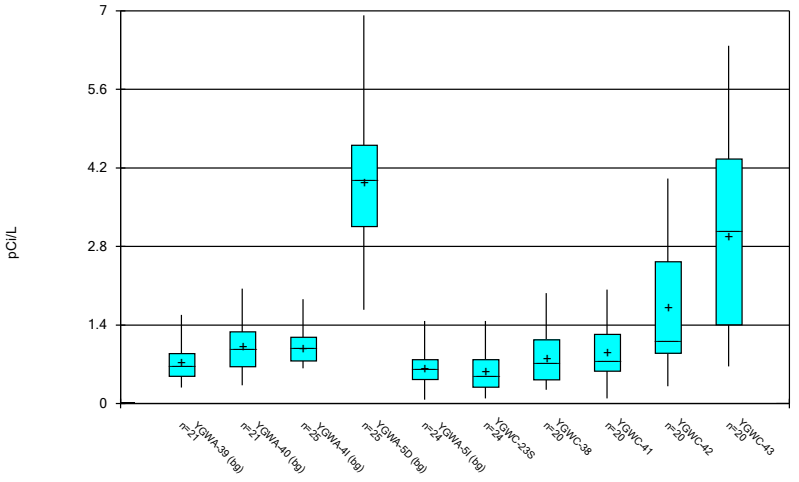

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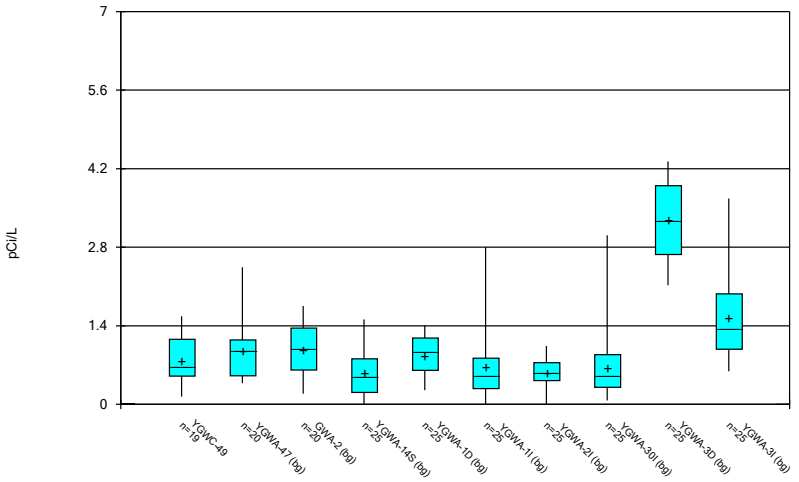

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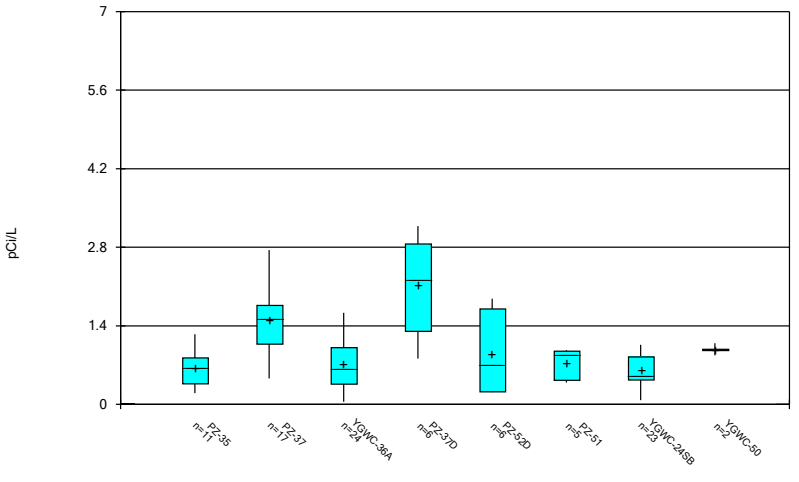

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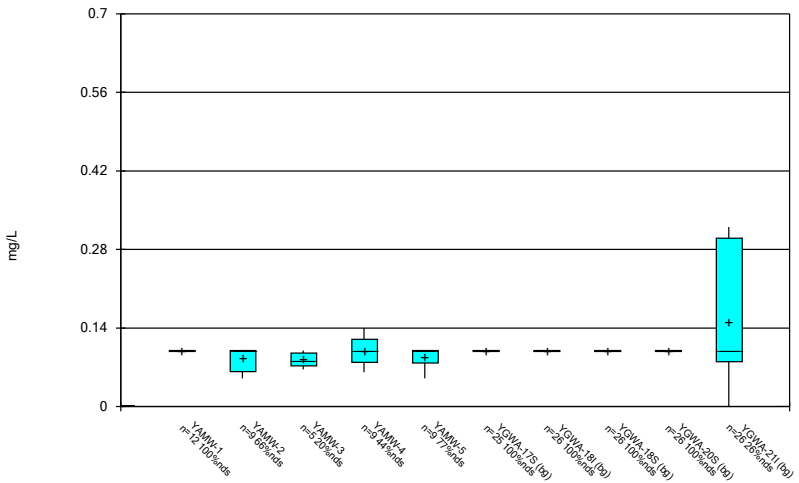

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Plant Yates Data: Plant Yates AMA-R6

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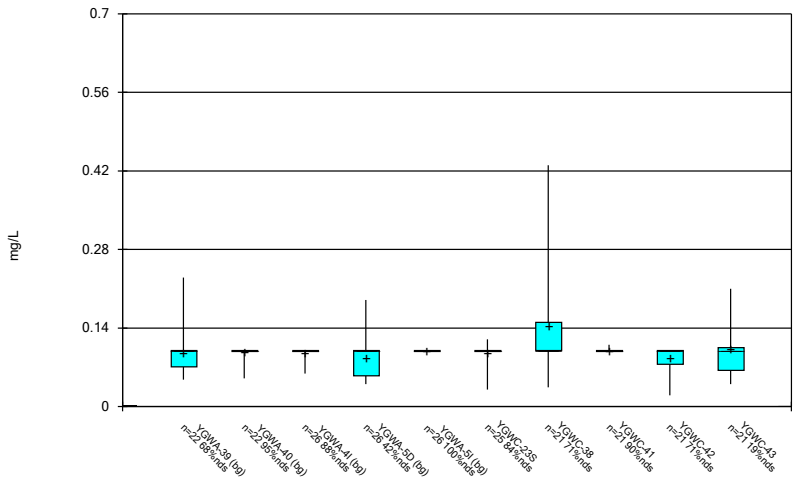
Box & Whiskers Plot



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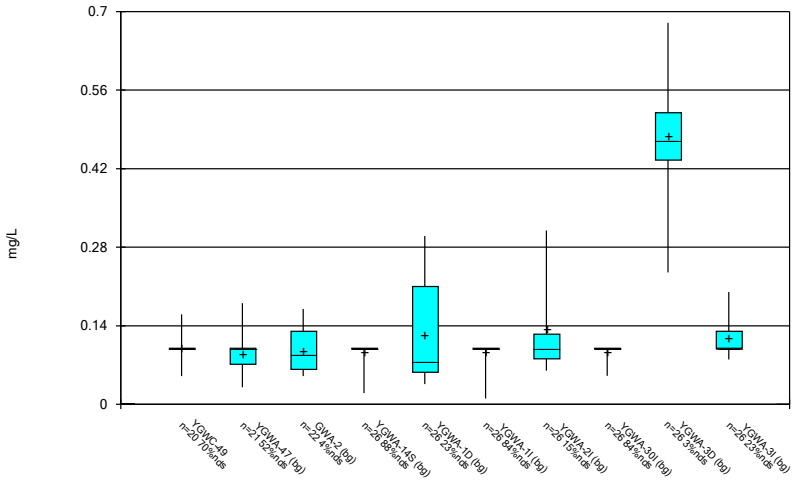

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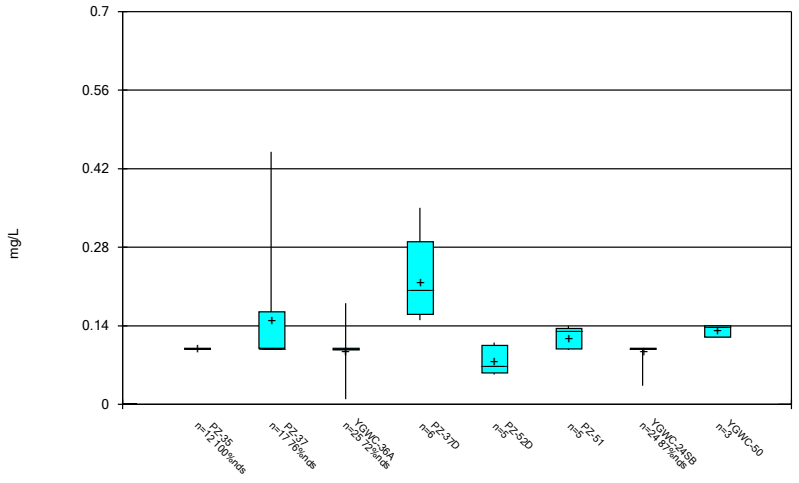

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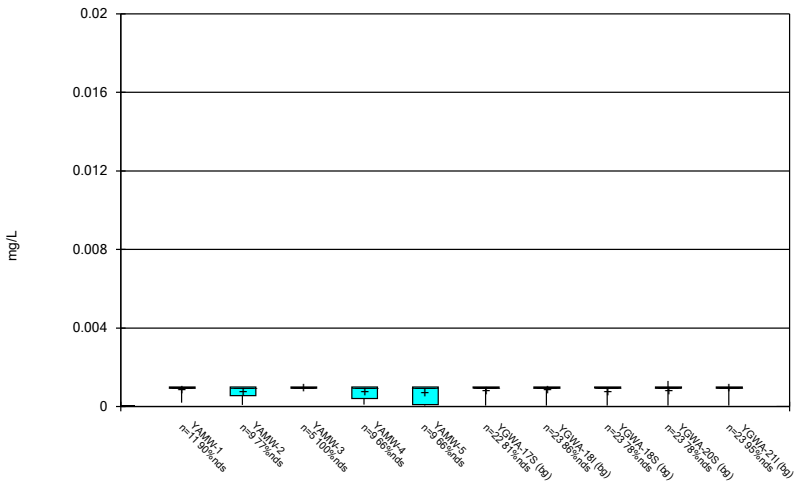

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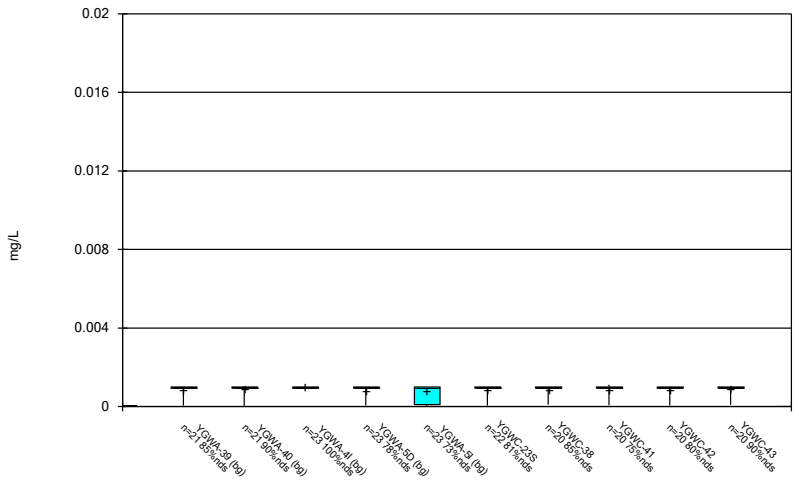

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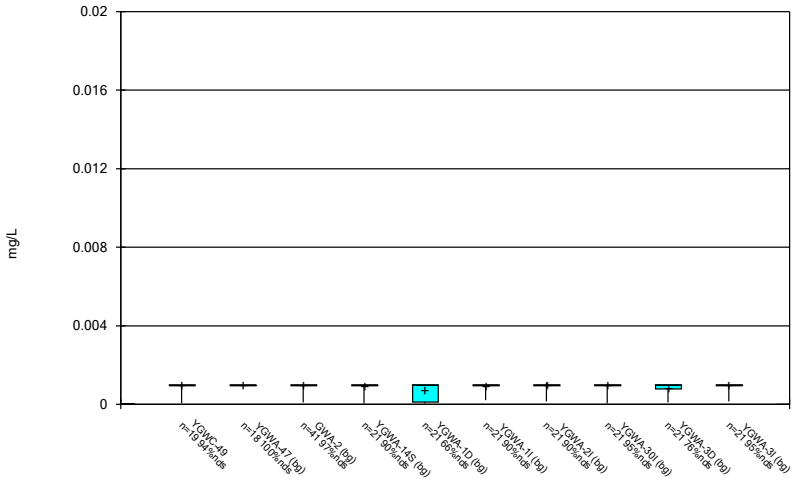

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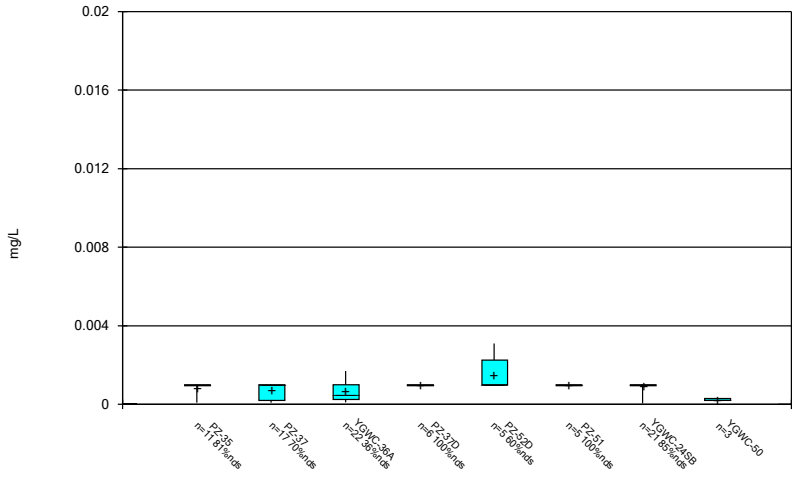

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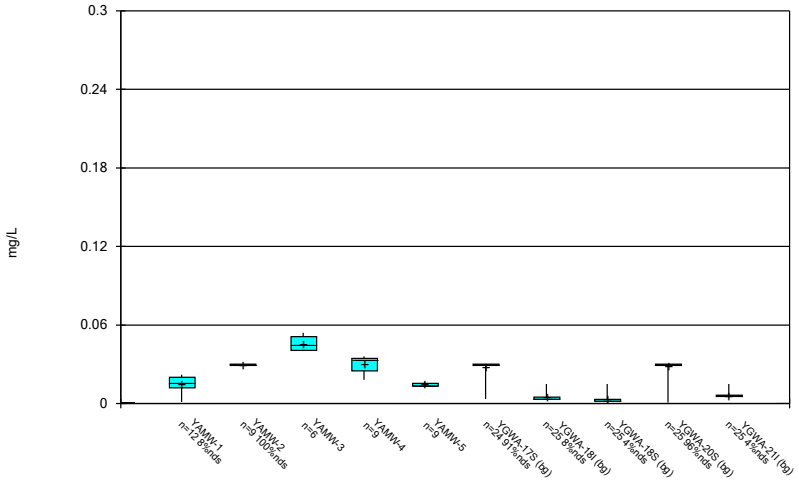

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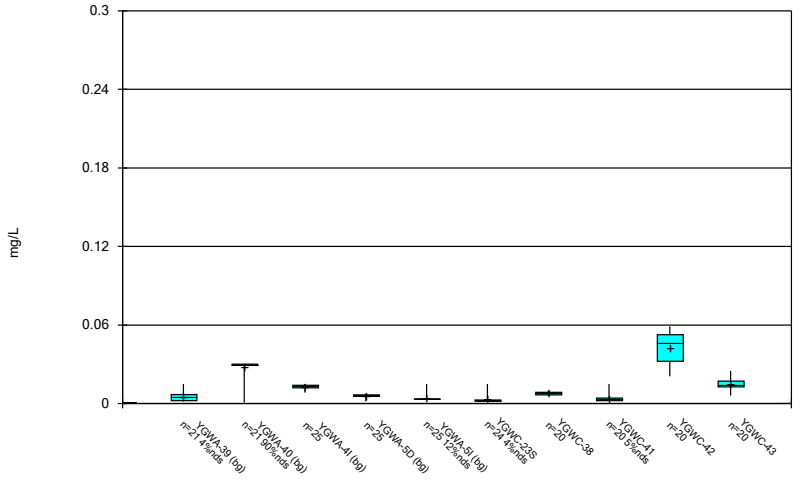

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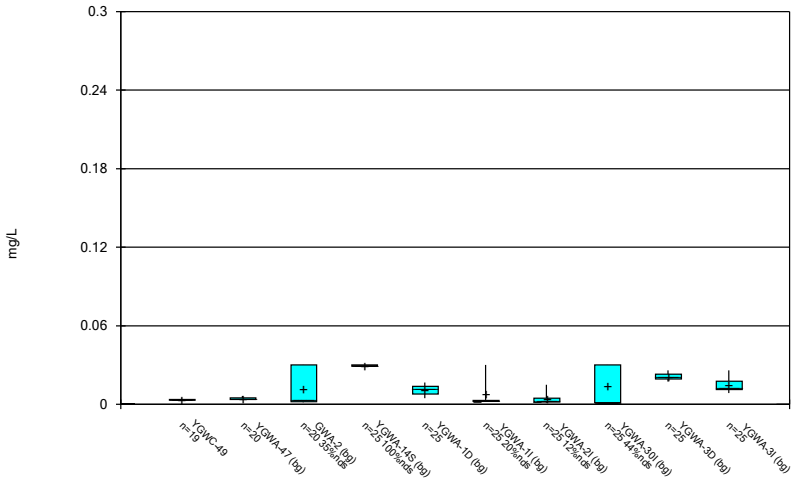

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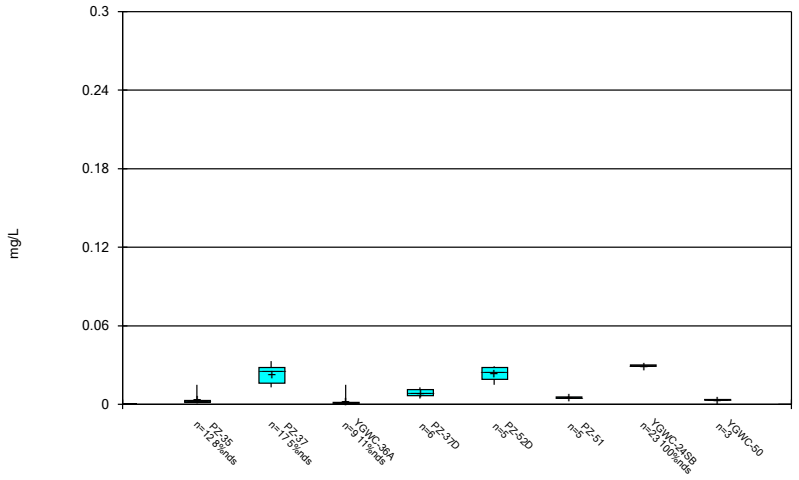

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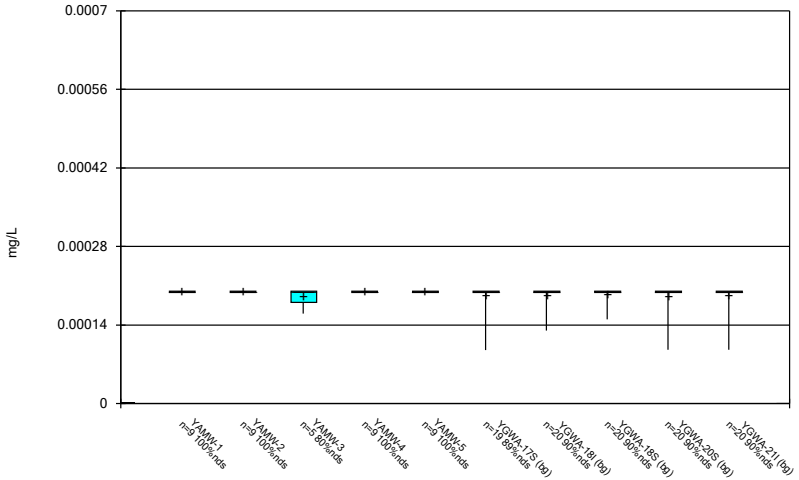

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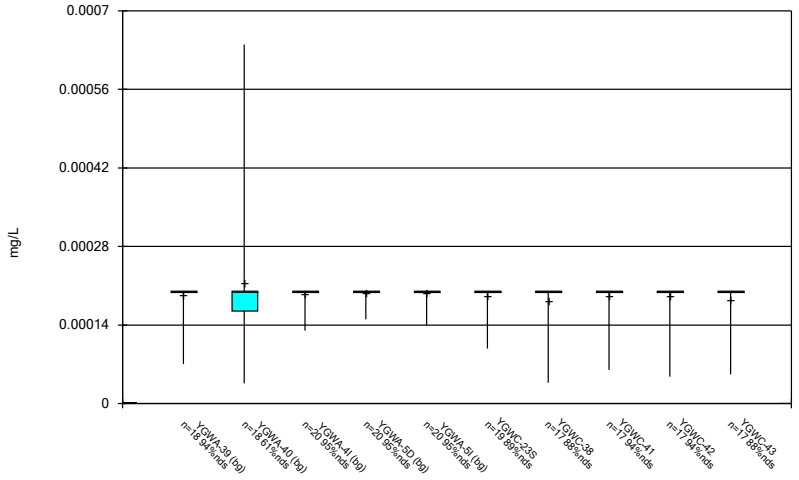

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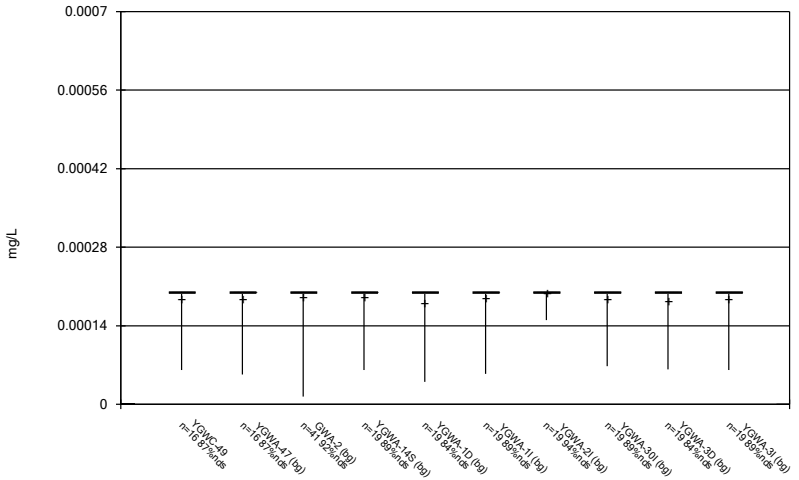

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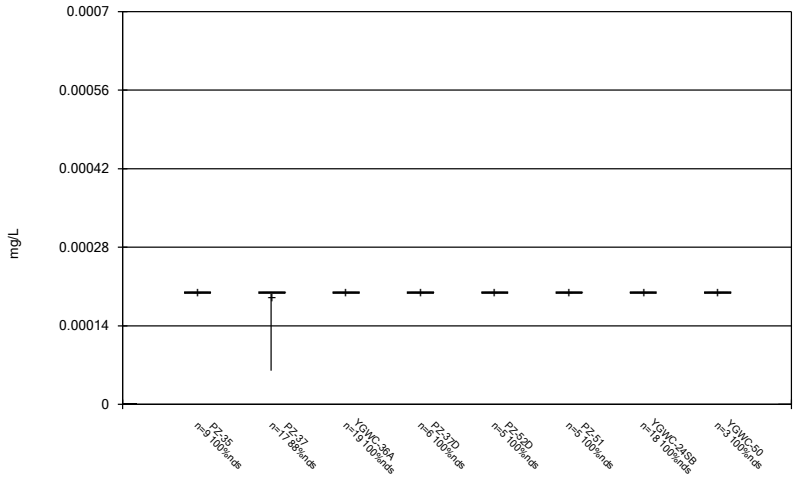

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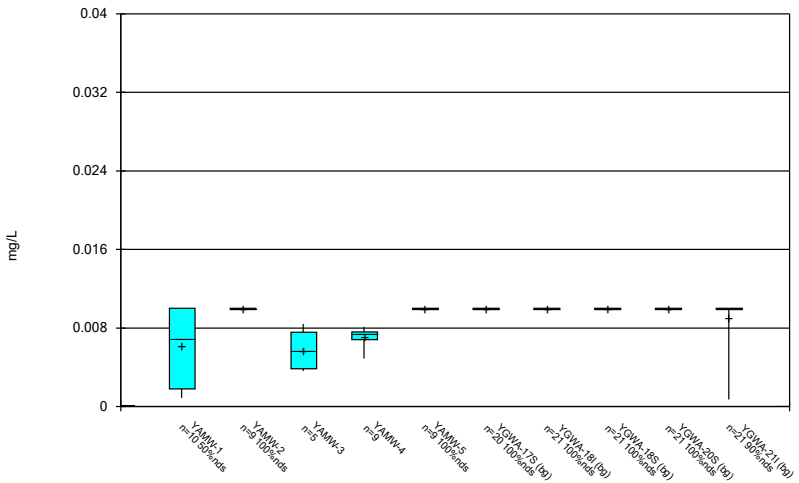

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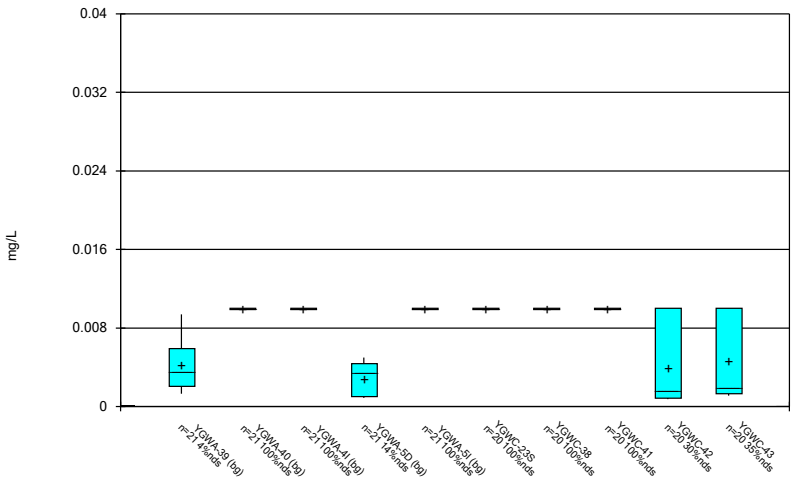

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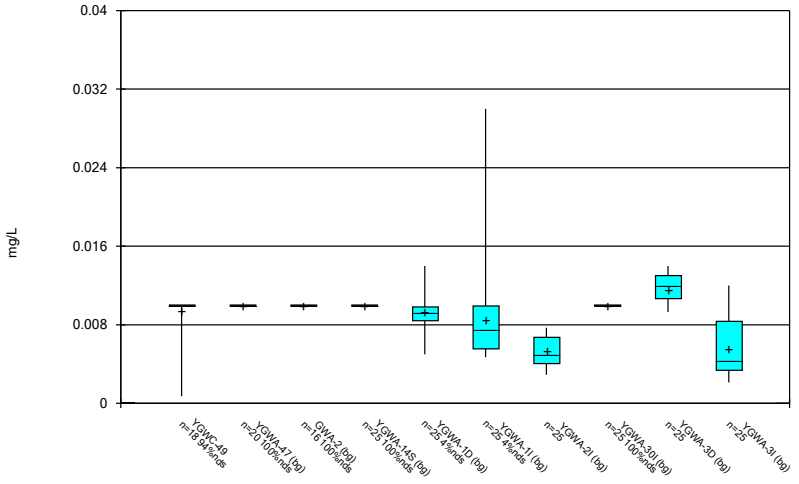

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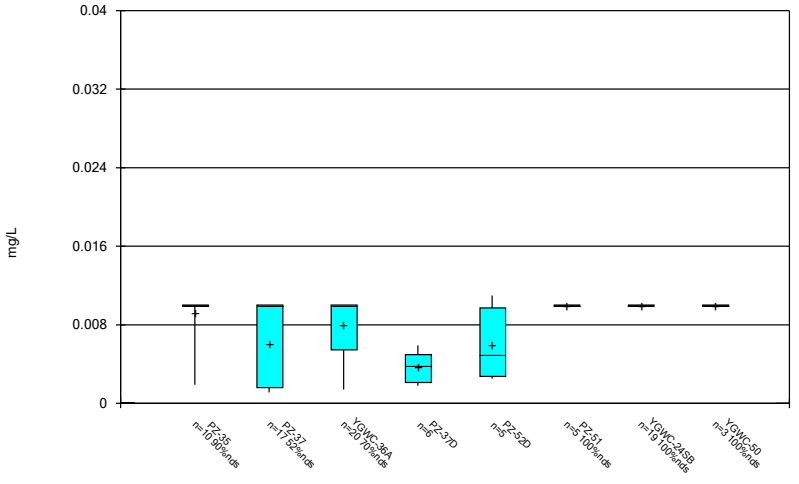
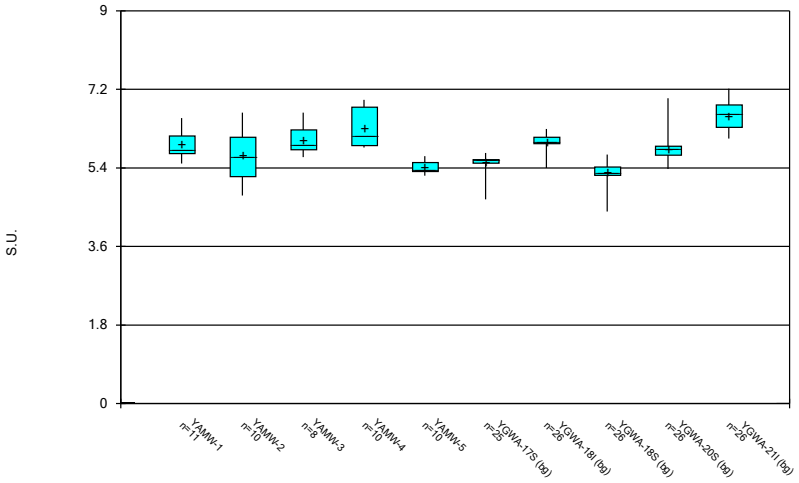


Constituent: Molybdenum Analysis Run 4/25/2024 2:28 PM
Plant Yates Data: Plant Yates AMA-R6

Box & Whiskers Plot



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Plant Yates Data: Plant Yates AMA-R6

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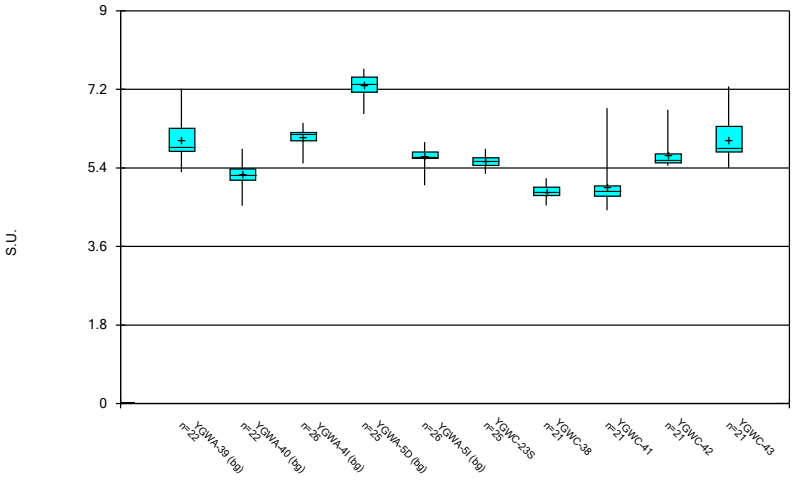

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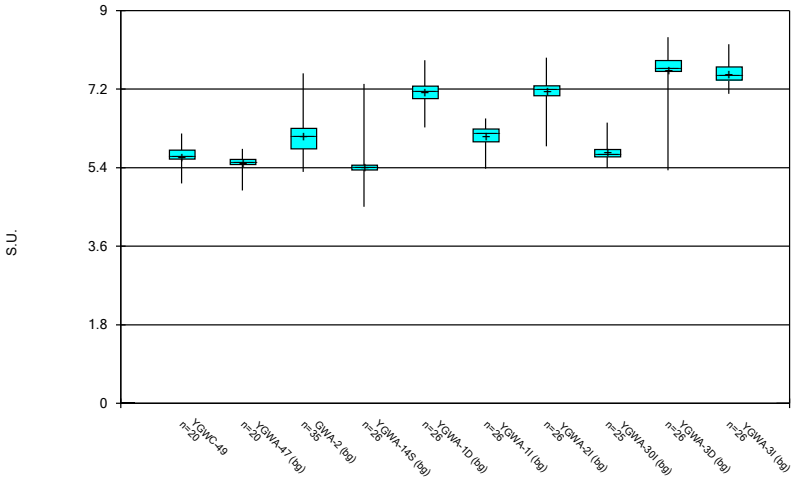

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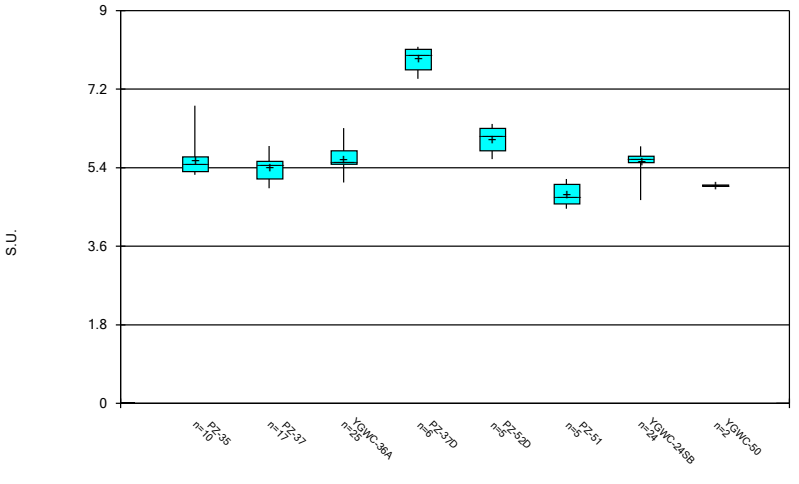

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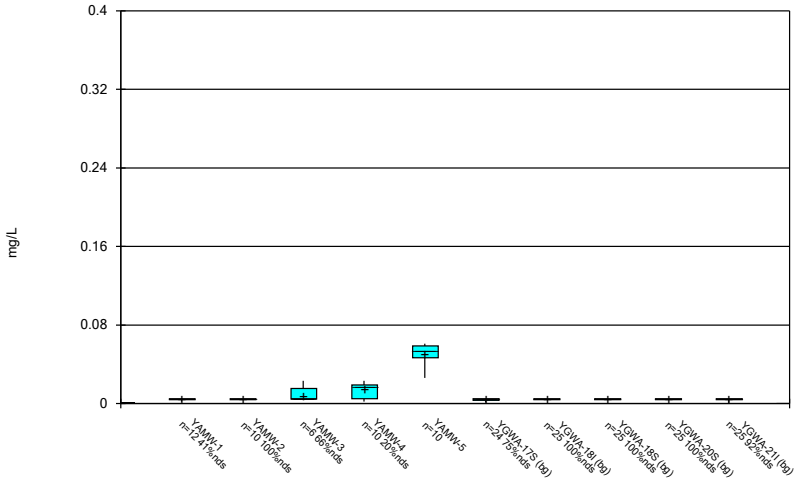
Plant Yates Data: Plant Yates AMA-R6

Box & Whiskers Plot



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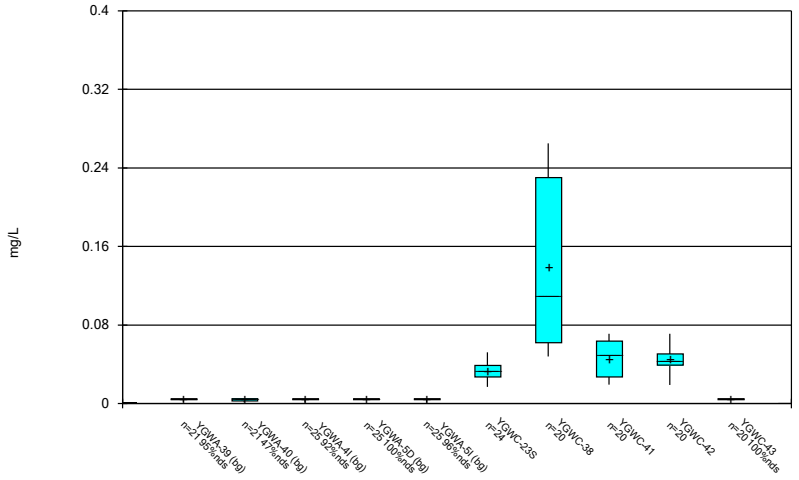

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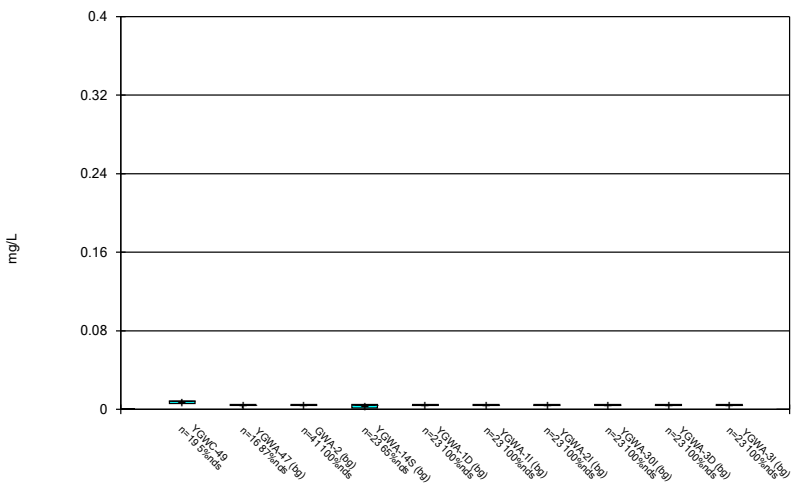

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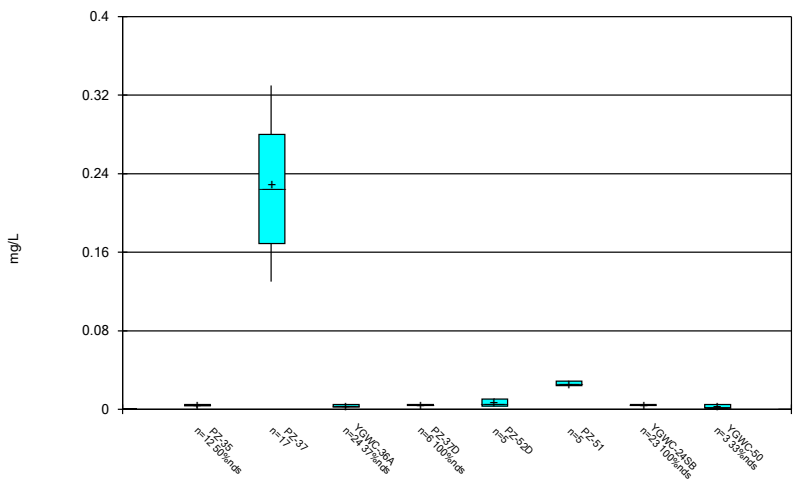

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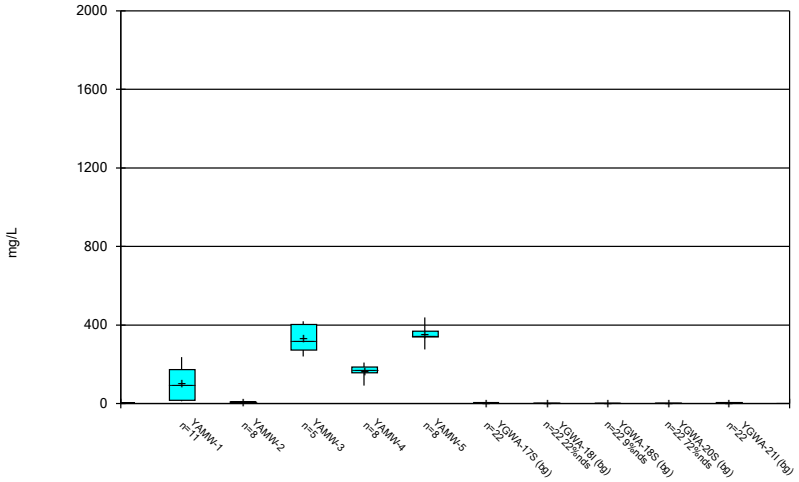

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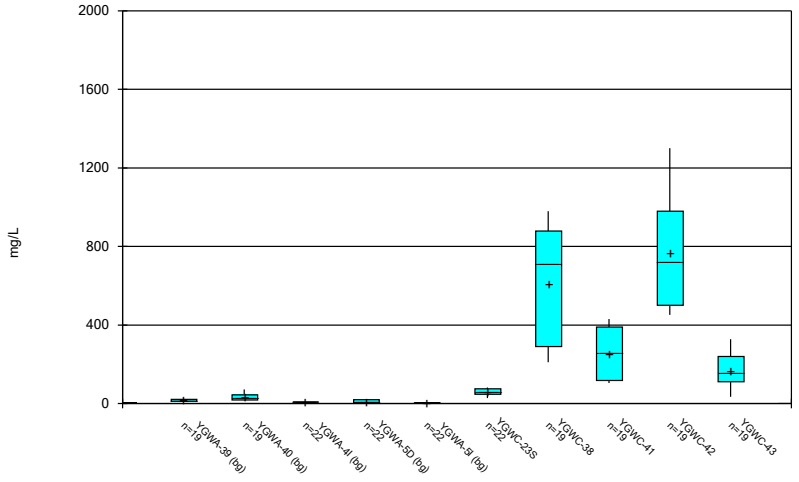

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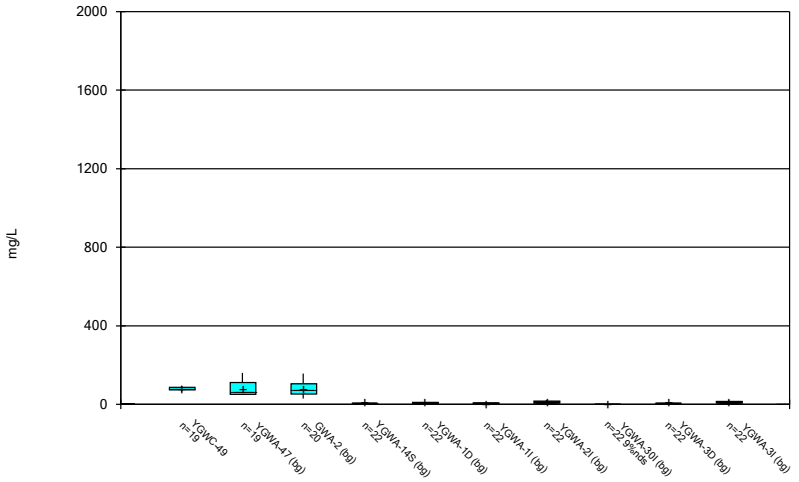

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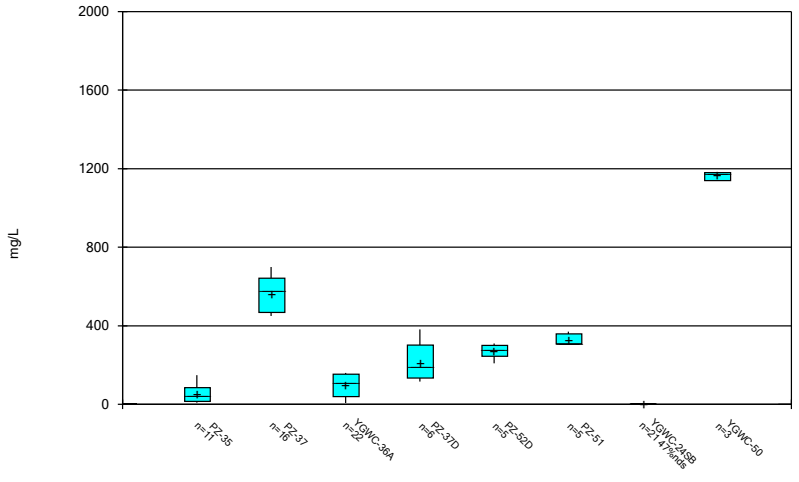

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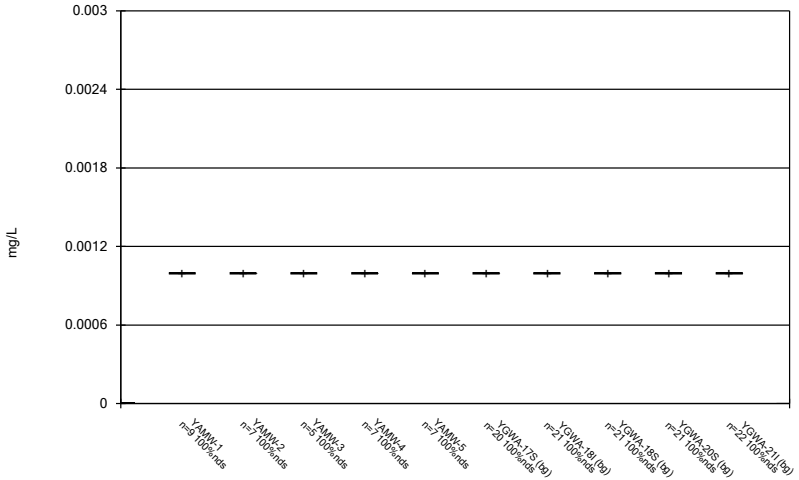

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Plant Yates Data: Plant Yates AMA-R6

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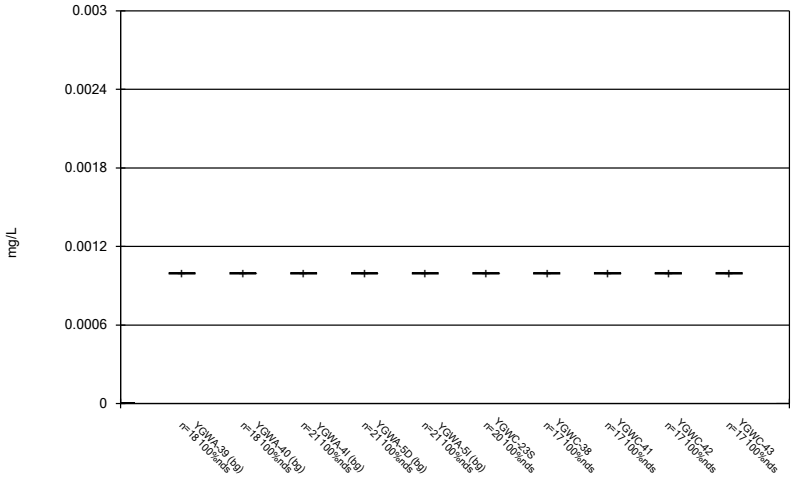

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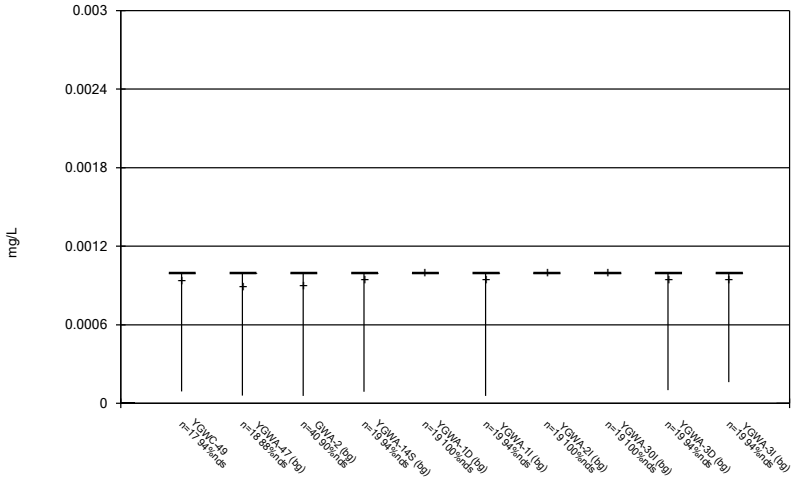

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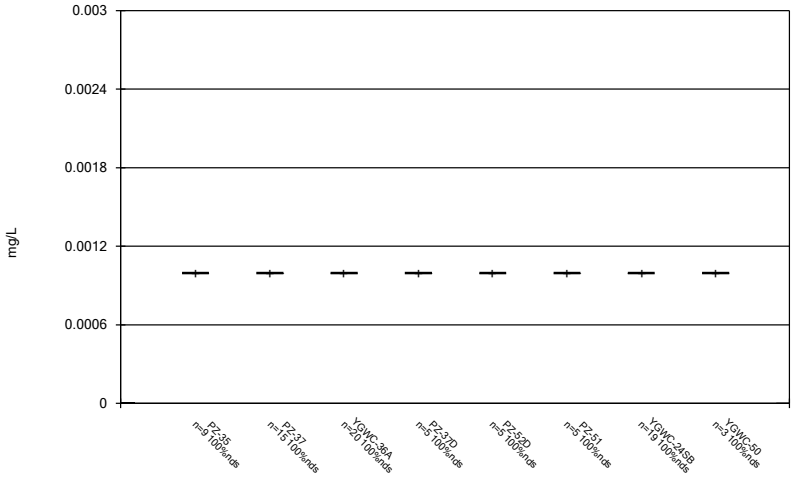
Box & Whiskers Plot



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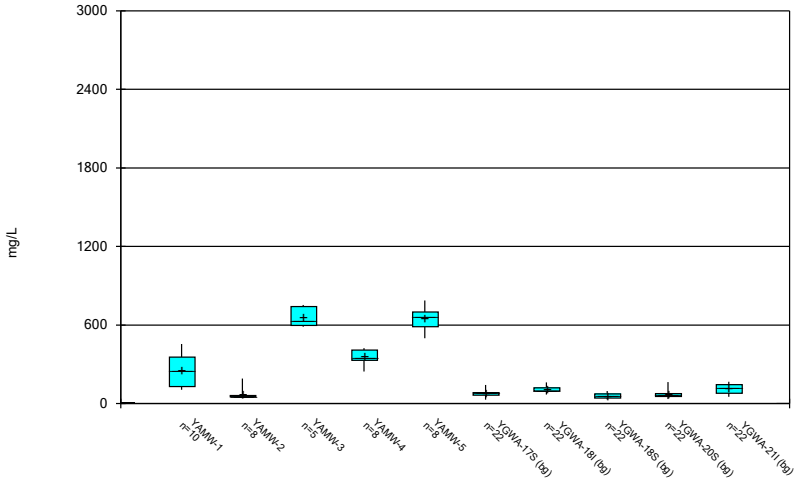
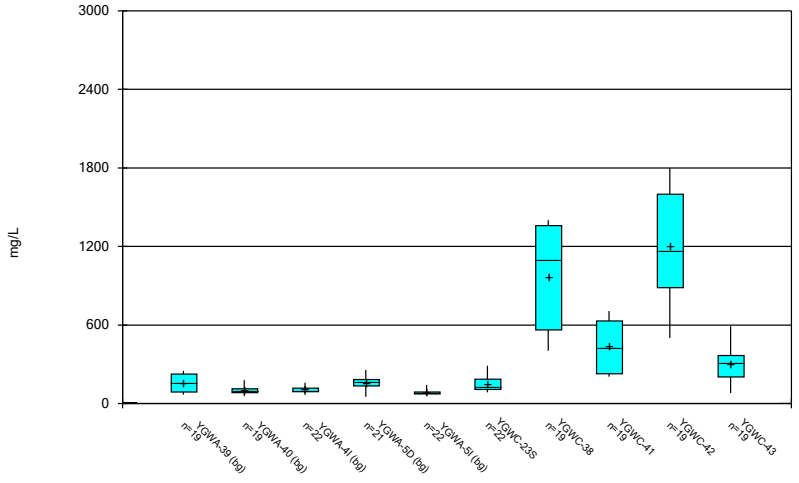


Constituent: Total Dissolved Solids Analysis Run 4/25/2024 2:28 PM
Plant Yates Data: Plant Yates AMA-R6

Box & Whiskers Plot



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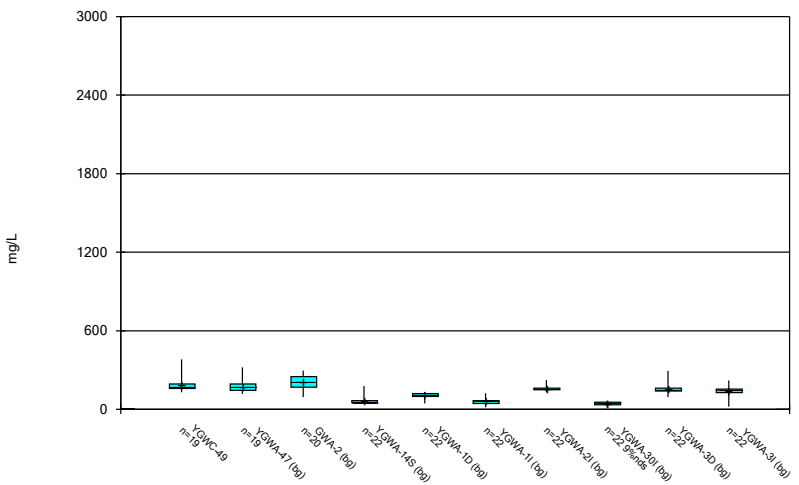
Plant Yates Data: Plant Yates AMA-R6

Box & Whiskers Plot



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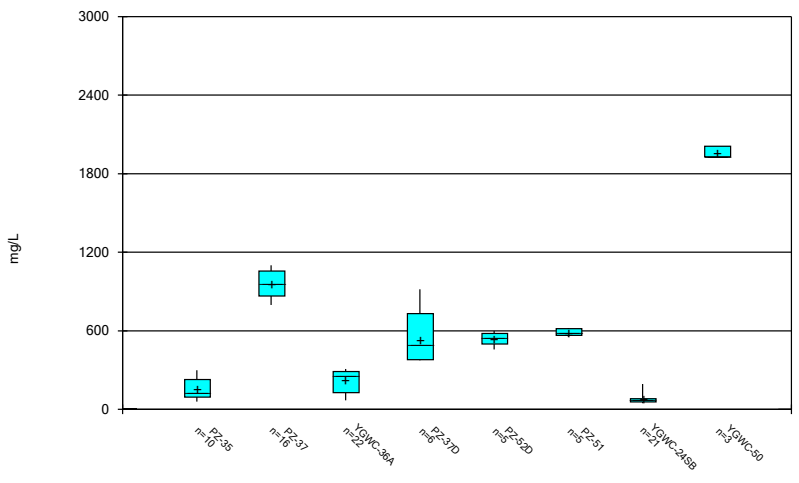

Constituent: Total Dissolved Solids Analysis Run 4/25/2024 2:28 PM
Plant Yates Data: Plant Yates AMA-R6

FIGURE C.

Outlier Summary

Plant Yates Data: Plant Yates AMA-R6 Printed 4/14/2024, 10:57 PM

	GWA-2 Cobalt (mg/L)	YAMW-3 Lithium (mg/L)	YGWA-47 pH (S.U.)	YGWA-5D Total Dissolved Solids (mg/L)
4/2/2018			6.3 (O)	
8/26/2020	0.2 (O)			
9/22/2020	0.16 (O)			
3/2/2021	0.21 (O)			
8/20/2021	0.074 (O)			
11/17/2021		0.046 (o)		
2/8/2022	0.072 (o)			
8/30/2022	0.075 (o)			
2/20/2024				639 (o)

FIGURE D.

Appendix III Interwell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/26/2024, 4:14 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**YGWC-23S**	**0.16**	**n/a**	**2/21/2024**	**1.3**	**Yes**	**407**	**n/a**	**n/a**	**51.35**	**n/a**	**n/a**	**0.00004917**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-38**	**0.16**	**n/a**	**2/22/2024**	**3.7**	**Yes**	**407**	**n/a**	**n/a**	**51.35**	**n/a**	**n/a**	**0.00004917**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-41**	**0.16**	**n/a**	**2/22/2024**	**3.5**	**Yes**	**407**	**n/a**	**n/a**	**51.35**	**n/a**	**n/a**	**0.00004917**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-42**	**0.16**	**n/a**	**2/22/2024**	**15.5**	**Yes**	**407**	**n/a**	**n/a**	**51.35**	**n/a**	**n/a**	**0.00004917**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-43**	**0.16**	**n/a**	**2/22/2024**	**2.3**	**Yes**	**407**	**n/a**	**n/a**	**51.35**	**n/a**	**n/a**	**0.00004917**	**NP Inter (NDs) 1 of 2**
Calcium (mg/L)	**YGWC-38**	**37**	**n/a**	**2/22/2024**	**49.7**	**Yes**	**407**	**n/a**	**n/a**	**0.7371**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**YGWC-42**	**37**	**n/a**	**2/22/2024**	**73.5**	**Yes**	**407**	**n/a**	**n/a**	**0.7371**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**YGWC-38**	**160**	**n/a**	**2/22/2024**	**210**	**Yes**	**407**	**n/a**	**n/a**	**6.143**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**YGWC-42**	**160**	**n/a**	**2/22/2024**	**487**	**Yes**	**407**	**n/a**	**n/a**	**6.143**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids (mg/L)	**YGWC-38**	**319**	**n/a**	**2/22/2024**	**403**	**Yes**	**406**	**n/a**	**n/a**	**0.4926**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids (mg/L)	**YGWC-42**	**319**	**n/a**	**2/22/2024**	**881**	**Yes**	**406**	**n/a**	**n/a**	**0.4926**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**

Appendix III Interwell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 4/26/2024, 4:14 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**YGWC-23S**	**0.16**	**n/a**	**2/21/2024**	**1.3**	**Yes**	**407**	**n/a**	**n/a**	**51.35**	**n/a**	**n/a**	**0.00004917**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-38**	**0.16**	**n/a**	**2/22/2024**	**3.7**	**Yes**	**407**	**n/a**	**n/a**	**51.35**	**n/a**	**n/a**	**0.00004917**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-41**	**0.16**	**n/a**	**2/22/2024**	**3.5**	**Yes**	**407**	**n/a**	**n/a**	**51.35**	**n/a**	**n/a**	**0.00004917**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-42**	**0.16**	**n/a**	**2/22/2024**	**15.5**	**Yes**	**407**	**n/a**	**n/a**	**51.35**	**n/a**	**n/a**	**0.00004917**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-43**	**0.16**	**n/a**	**2/22/2024**	**2.3**	**Yes**	**407**	**n/a**	**n/a**	**51.35**	**n/a**	**n/a**	**0.00004917**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	YGWC-49	0.16	n/a	2/21/2024	0.04ND	No	407	n/a	n/a	51.35	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-36A	0.16	n/a	2/23/2024	0.11	No	407	n/a	n/a	51.35	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-24SB	0.16	n/a	2/23/2024	0.016J	No	407	n/a	n/a	51.35	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Calcium (mg/L)	YGWC-23S	37	n/a	2/21/2024	11.1	No	407	n/a	n/a	0.7371	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	**YGWC-38**	**37**	**n/a**	**2/22/2024**	**49.7**	**Yes**	**407**	**n/a**	**n/a**	**0.7371**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	YGWC-41	37	n/a	2/22/2024	14.4	No	407	n/a	n/a	0.7371	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	**YGWC-42**	**37**	**n/a**	**2/22/2024**	**73.5**	**Yes**	**407**	**n/a**	**n/a**	**0.7371**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	YGWC-43	37	n/a	2/22/2024	10.5	No	407	n/a	n/a	0.7371	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-49	37	n/a	2/21/2024	11.1	No	407	n/a	n/a	0.7371	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-36A	37	n/a	2/23/2024	33.6	No	407	n/a	n/a	0.7371	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-24SB	37	n/a	2/23/2024	2.6	No	407	n/a	n/a	0.7371	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-23S	12.2	n/a	2/21/2024	2.4	No	407	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-38	12.2	n/a	2/22/2024	3.7	No	407	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-41	12.2	n/a	2/22/2024	3.9	No	407	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-42	12.2	n/a	2/22/2024	3.3	No	407	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-43	12.2	n/a	2/22/2024	2.3	No	407	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-49	12.2	n/a	2/21/2024	4	No	407	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-36A	12.2	n/a	2/23/2024	4.8	No	407	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-24SB	12.2	n/a	2/23/2024	8.3	No	407	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Fluoride (mg/L)	YGWC-23S	0.68	n/a	2/21/2024	0.1ND	No	476	n/a	n/a	63.45	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-38	0.68	n/a	2/22/2024	0.1ND	No	476	n/a	n/a	63.45	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-41	0.68	n/a	2/22/2024	0.1ND	No	476	n/a	n/a	63.45	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-42	0.68	n/a	2/22/2024	0.1ND	No	476	n/a	n/a	63.45	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-43	0.68	n/a	2/22/2024	0.091J	No	476	n/a	n/a	63.45	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-49	0.68	n/a	2/21/2024	0.1ND	No	476	n/a	n/a	63.45	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-36A	0.68	n/a	2/23/2024	0.1ND	No	476	n/a	n/a	63.45	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-24SB	0.68	n/a	2/23/2024	0.1ND	No	476	n/a	n/a	63.45	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
pH (S.U.)	YGWC-23S	8.39	4.4	2/21/2024	5.43	No	486	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-38	8.39	4.4	2/22/2024	5.03	No	486	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-41	8.39	4.4	2/22/2024	4.84	No	486	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-42	8.39	4.4	2/22/2024	5.61	No	486	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-43	8.39	4.4	2/22/2024	5.81	No	486	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-49	8.39	4.4	2/21/2024	5.29	No	486	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-36A	8.39	4.4	2/23/2024	5.2	No	486	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-24SB	8.39	4.4	2/23/2024	5.62	No	486	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-23S	160	n/a	2/21/2024	81	No	407	n/a	n/a	6.143	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**YGWC-38**	**160**	**n/a**	**2/22/2024**	**210**	**Yes**	**407**	**n/a**	**n/a**	**6.143**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	YGWC-41	160	n/a	2/22/2024	109	No	407	n/a	n/a	6.143	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**YGWC-42**	**160**	**n/a**	**2/22/2024**	**487**	**Yes**	**407**	**n/a**	**n/a**	**6.143**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	YGWC-43	160	n/a	2/22/2024	147	No	407	n/a	n/a	6.143	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-49	160	n/a	2/21/2024	65.4	No	407	n/a	n/a	6.143	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-36A	160	n/a	2/23/2024	156	No	407	n/a	n/a	6.143	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-24SB	160	n/a	2/23/2024	0.5ND	No	407	n/a	n/a	6.143	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-23S	319	n/a	2/21/2024	192	No	406	n/a	n/a	0.4926	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	**YGWC-38**	**319**	**n/a**	**2/22/2024**	**403**	**Yes**	**406**	**n/a**	**n/a**	**0.4926**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids (mg/L)	YGWC-41	319	n/a	2/22/2024	224	No	406	n/a	n/a	0.4926	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	**YGWC-42**	**319**	**n/a**	**2/22/2024**	**881**	**Yes**	**406**	**n/a**	**n/a**	**0.4926**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids (mg/L)	YGWC-43	319	n/a	2/22/2024	313	No	406	n/a	n/a	0.4926	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-49	319	n/a	2/21/2024	173	No	406	n/a	n/a	0.4926	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-36A	319	n/a	2/23/2024	308	No	406	n/a	n/a	0.4926	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-24SB	319	n/a	2/23/2024	75	No	406	n/a	n/a	0.4926	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2

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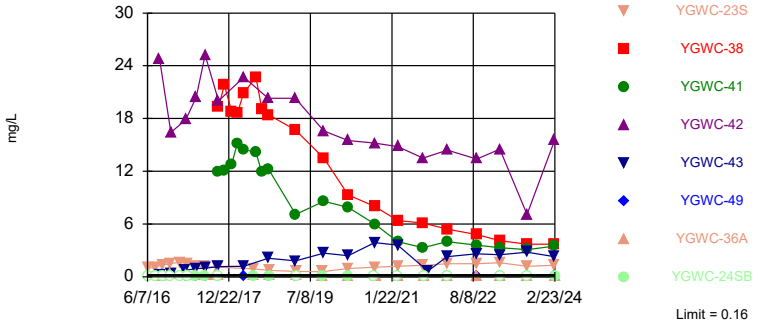
Hollow symbols indicate censored values.

Exceeds Limit: YGWC-23S, YGWC-38, YGWC-41, YGWC-42, YGWC-43

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 407 background values. 51.35% NDs. Annual per-constituent alpha = 0.0007864. Individual comparison alpha = 0.00004917 (1 of 2). Comparing 8 points to limit.

Constituent: Boron Analysis Run 4/26/2024 4:11 PM View: Appendix III
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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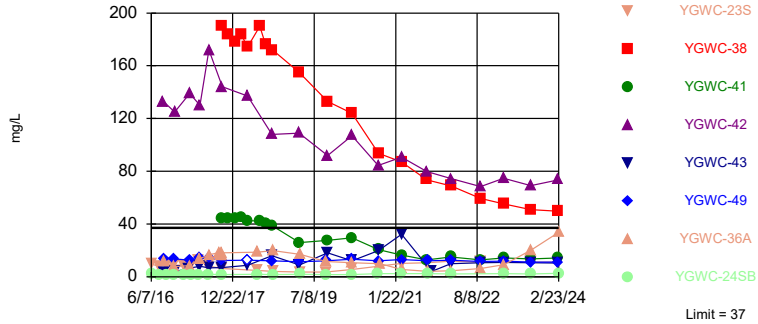
Hollow symbols indicate censored values.

Exceeds Limit: YGWC-38, YGWC-42

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 407 background values. 0.7371% NDs. Annual per-constituent alpha = 0.0007864. Individual comparison alpha = 0.00004917 (1 of 2). Comparing 8 points to limit.

Constituent: Calcium Analysis Run 4/26/2024 4:12 PM View: Appendix III
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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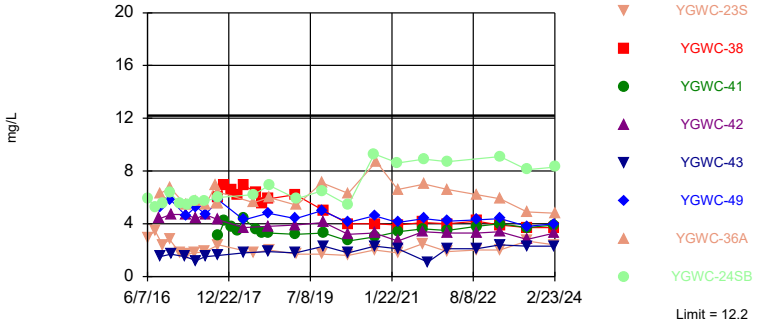
Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 407 background values. Annual per-constituent alpha = 0.0007864. Individual comparison alpha = 0.00004917 (1 of 2). Comparing 8 points to limit.

Constituent: Chloride Analysis Run 4/26/2024 4:12 PM View: Appendix III
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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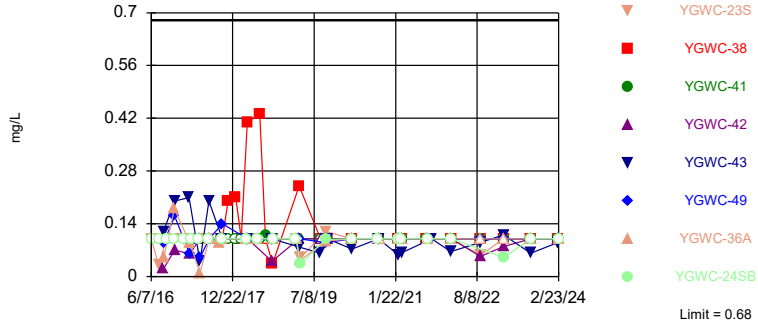
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 476 background values. 63.45% NDs. Annual per-constituent alpha = 0.0007864. Individual comparison alpha = 0.00004917 (1 of 2). Comparing 8 points to limit.

Constituent: Fluoride Analysis Run 4/26/2024 4:12 PM View: Appendix III
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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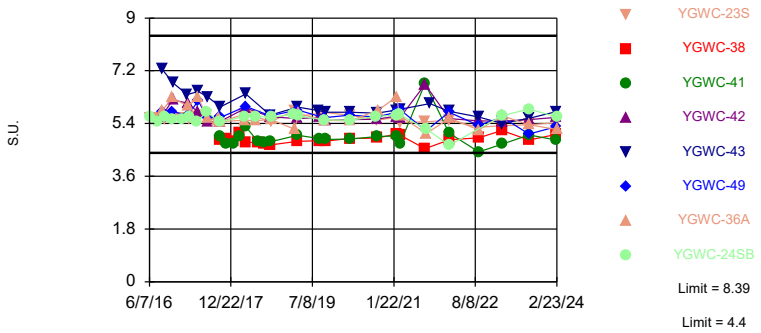
Within Limits

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 486 background values. Annual per-constituent alpha = 0.001573. Individual comparison alpha = 0.00009834 (1 of 2). Comparing 8 points to limit.

Constituent: pH Analysis Run 4/26/2024 4:12 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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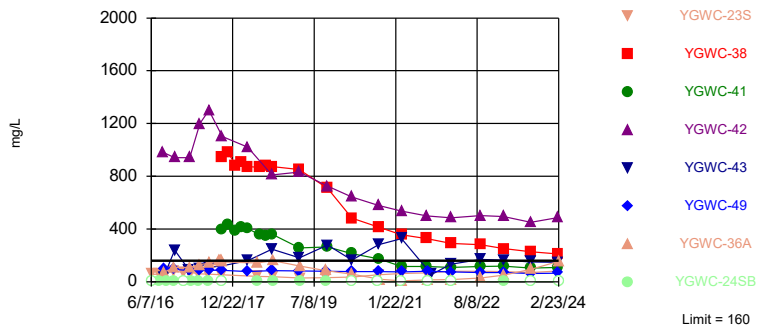
Hollow symbols indicate censored values.

Exceeds Limit: YGWC-38, YGWC-42

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 407 background values. 6.143% NDs. Annual per-constituent alpha = 0.0007864. Individual comparison alpha = 0.00004917 (1 of 2). Comparing 8 points to limit.

Constituent: Sulfate Analysis Run 4/26/2024 4:12 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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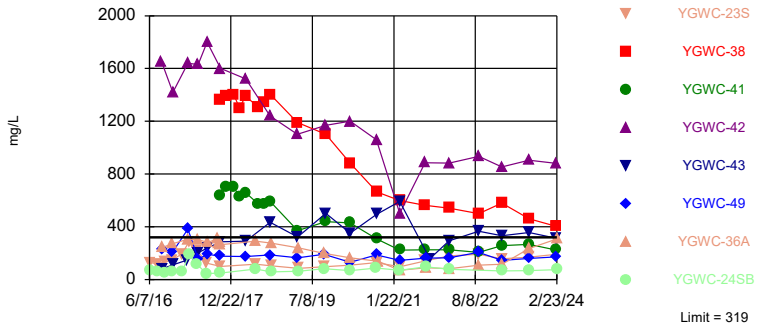
Exceeds Limit: YGWC-38, YGWC-42

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 406 background values. 0.4926% NDs. Annual per-constituent alpha = 0.0007864. Individual comparison alpha = 0.00004917 (1 of 2). Comparing 8 points to limit.

Constituent: Total Dissolved Solids Analysis Run 4/26/2024 4:12 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-30I (bg)
6/1/2016	<0.04	<0.04	<0.04						
6/2/2016				<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016	<0.04	<0.04							<0.04
7/26/2016			0.0055 (J)	0.0097 (J)	<0.04	0.0052 (J)	0.0177 (J)	0.0047 (J)	
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016	<0.04		<0.04						
9/14/2016		<0.04			0.01 (J)	0.0071 (J)		<0.04	
9/15/2016				0.0102 (J)			0.0214 (J)		
9/16/2016									
9/19/2016									<0.04
9/20/2016									
11/1/2016		<0.04	0.0086 (J)	<0.04					<0.04
11/2/2016						<0.04	<0.04	<0.04	
11/3/2016									
11/4/2016	<0.04				<0.04				
11/8/2016									
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017							0.0198 (J)		
1/11/2017		<0.04	0.0074 (J)	<0.04					
1/12/2017					<0.04	0.0076 (J)			
1/13/2017								<0.04	
1/16/2017	<0.04								<0.04
1/17/2017									
2/21/2017									<0.04
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017		<0.04							
3/2/2017	<0.04		0.008 (J)	0.0084 (J)					
3/3/2017									
3/6/2017								<0.04	
3/7/2017					<0.04	0.0089 (J)			
3/8/2017							0.0189 (J)		
3/9/2017									
4/26/2017		<0.04		<0.04			0.0161 (J)		<0.04
4/27/2017	<0.04		0.0066 (J)						
4/28/2017									
5/1/2017						0.0061 (J)		<0.04	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-30I (bg)
5/2/2017					<0.04				
5/8/2017									
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017	0.006 (J)		0.0087 (J)		<0.04	0.0079 (J)			
6/28/2017		<0.04		<0.04					
6/29/2017								<0.04	
6/30/2017							0.0173 (J)		<0.04
7/7/2017									
7/10/2017									
7/11/2017									
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017	0.0071 (J)		0.0072 (J)		<0.04	0.0094 (J)			
10/4/2017		<0.04		<0.04					<0.04
10/5/2017							0.0173 (J)	<0.04	
10/6/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018			0.0052 (J)						
6/6/2018	<0.04					0.0098 (J)			
6/7/2018				0.004 (J)	<0.04			0.0045 (J)	
6/8/2018		<0.04					0.013 (J)		
6/11/2018									0.014 (J)
6/12/2018									
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/20/2018									
9/24/2018									
9/25/2018									
9/26/2018					0.0057 (J)	0.01 (J)		0.005 (J)	
9/27/2018									
10/1/2018	0.0049 (J)	<0.04	0.021 (J)	<0.04			0.015 (J)		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-30I (bg)
10/2/2018									<0.04
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019	<0.04		0.005 (J)						
3/29/2019							0.014 (J)		
4/1/2019		<0.04		<0.04					<0.04
4/2/2019									
4/3/2019					0.0044 (J)	0.0076 (J)		0.0055 (J)	
4/4/2019									
6/12/2019									
9/24/2019	0.0055 (J)		0.0064 (J)		0.0049 (J)	0.01 (J)			
9/25/2019		<0.04		0.0054 (J)			0.018 (J)	<0.04	<0.04
9/26/2019									
9/27/2019									
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020	0.0087 (J)						0.02 (J)		
3/19/2020		0.0053 (J)	0.0085 (J)	0.0073 (J)					0.0052 (J)
3/24/2020					0.0068 (J)	0.011 (J)			
3/25/2020								0.011 (J)	
3/26/2020									
9/22/2020					0.0053 (J)	0.0079 (J)		<0.04	
9/23/2020	<0.04	0.0073 (J)	<0.04	0.012 (J)					
9/24/2020									0.0075 (J)
9/25/2020							0.02 (J)		
10/7/2020									
3/1/2021									<0.04
3/2/2021					0.011 (J)	0.0068 (J)	0.017 (J)		
3/3/2021	<0.04	<0.04	<0.04	<0.04				0.0056 (J)	
3/4/2021									
8/19/2021	<0.04		<0.04	<0.04			0.018 (J)		<0.04
8/20/2021									
8/25/2021									
8/26/2021					<0.04	0.009 (J)		<0.04	
8/27/2021		<0.04							
9/1/2021									
9/3/2021									
9/27/2021									
2/8/2022									
2/9/2022	<0.04	<0.04	<0.04	0.01 (J)					
2/10/2022					<0.04	0.011 (J)	0.02 (J)		
2/11/2022								<0.04	<0.04
8/30/2022			<0.04		<0.04	0.0098 (J)			
8/31/2022	<0.04	<0.04		<0.04			0.015 (J)	<0.04	<0.04
9/1/2022									
2/7/2023	<0.04		<0.04			<0.04			
2/8/2023		<0.04		<0.04			0.015 (J)		<0.04
2/9/2023					<0.04			<0.04	
2/10/2023									
8/15/2023	0.0094 (J)		<0.04	<0.04	<0.04	<0.04	0.017 (J)	<0.04	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-30I (bg)
8/16/2023		<0.04							<0.04
2/20/2024	0.014 (J)	<0.04	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)		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWA-17S (bg)	YGWC-24SB	YGWA-47 (bg)	YGWC-42
6/1/2016									
6/2/2016									
6/6/2016	<0.04	<0.04							
6/7/2016			<0.04	<0.04	0.99	<0.04			
6/8/2016							<0.04		
7/25/2016									
7/26/2016									
7/27/2016	<0.04	0.0059 (J)	<0.04			0.008 (J)			
7/28/2016				<0.04	1.09				
8/1/2016							<0.04		
8/30/2016								0.0166 (J)	24.7
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016		0.0079 (J)				0.0086 (J)			
9/19/2016	<0.04		<0.04	<0.04					
9/20/2016					1.35		<0.04		
11/1/2016									
11/2/2016			<0.04						
11/3/2016	<0.04	0.0082 (J)		<0.04		0.0077 (J)			
11/4/2016									
11/8/2016					1.5		<0.04		
11/14/2016								0.0166 (J)	
11/15/2016									
11/16/2016									16.4
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	<0.04	0.0096 (J)				0.0092 (J)			
1/12/2017									
1/13/2017			<0.04	<0.04					
1/16/2017					1.67				
1/17/2017							<0.04		
2/21/2017									
2/22/2017									
2/24/2017								0.0145 (J)	
2/27/2017									17.9
2/28/2017									
3/1/2017	<0.04	<0.04							
3/2/2017						0.0095 (J)			
3/3/2017									
3/6/2017			<0.04	<0.04					
3/7/2017									
3/8/2017							<0.04		
3/9/2017					1.44				
4/26/2017	<0.04	0.0091 (J)	<0.04	<0.04					
4/27/2017									
4/28/2017									
5/1/2017									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWA-17S (bg)	YGWC-24SB	YGWA-47 (bg)	YGWC-42
5/2/2017					1.2	<0.04	0.0099 (J)		
5/8/2017								0.0141 (J)	
5/9/2017									
5/10/2017									20.4
5/26/2017									
6/27/2017									
6/28/2017	<0.04	0.0079 (J)							
6/29/2017			<0.04	<0.04		0.0074 (J)			
6/30/2017									
7/7/2017							0.0076 (J)		
7/10/2017					1.12				
7/11/2017								0.0131 (J)	25.2
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017				<0.04					
10/4/2017		0.009 (J)	<0.04			0.0077 (J)			
10/5/2017	<0.04						<0.04		
10/6/2017									
10/10/2017								0.0124 (J)	
10/11/2017					1.09				
10/12/2017									20
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018								0.013 (J)	
4/3/2018									
4/4/2018									22.7
6/5/2018				0.0092 (J)					
6/6/2018			0.0049 (J)						
6/7/2018	<0.04								
6/8/2018									
6/11/2018		0.0093 (J)				0.01 (J)			
6/12/2018					0.9		0.018 (J)		
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018								0.012 (J)	
9/20/2018									20.3
9/24/2018									
9/25/2018	0.0046 (J)	0.007 (J)	<0.04	0.0054 (J)		0.0096 (J)			
9/26/2018							0.0055 (J)		
9/27/2018					0.71				
10/1/2018									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWA-17S (bg)	YGWC-24SB	YGWA-47 (bg)	YGWC-42
10/2/2018									
2/25/2019									
3/26/2019									
3/27/2019								0.013 (J)	20.3
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019				0.011 (J)		0.0066 (J)			
4/3/2019	<0.04	0.0053 (J)	<0.04						
4/4/2019					0.6		<0.04		
6/12/2019									
9/24/2019				0.018 (J)					
9/25/2019			<0.04			0.0081 (J)			
9/26/2019	0.0062 (J)	0.0072 (J)					0.0068 (J)		
9/27/2019					0.58				
10/8/2019								0.012 (J)	
10/9/2019									16.6
3/17/2020								0.023 (J)	
3/18/2020									
3/19/2020									
3/24/2020	0.0054 (J)	0.01 (J)	<0.04	0.016 (J)		0.0092 (J)			
3/25/2020									15.5
3/26/2020					0.94		0.033 (J)		
9/22/2020								0.0076 (J)	
9/23/2020	0.021 (J)	0.006 (J)				0.0066 (J)	<0.04		
9/24/2020			0.0094 (J)	0.013 (J)	1.1				15.2
9/25/2020									
10/7/2020									
3/1/2021								0.013 (J)	
3/2/2021									
3/3/2021	<0.04	0.0094 (J)	<0.04			0.01 (J)	<0.04		
3/4/2021				0.0079 (J)	1.2				14.8
8/19/2021								0.011 (J)	
8/20/2021									
8/25/2021					1.3				13.5
8/26/2021		<0.04							
8/27/2021	<0.04		<0.04			0.011 (J)			
9/1/2021				<0.04			<0.04		
9/3/2021									
9/27/2021									
2/8/2022								0.015 (J)	
2/9/2022	<0.04	<0.04	<0.04	<0.04		0.0098 (J)			
2/10/2022					1.5		<0.04		14.4
2/11/2022									
8/30/2022	<0.04	0.014 (J)		0.012 (J)		0.013 (J)			
8/31/2022			<0.04					0.0091 (J)	
9/1/2022					1.5				13.4
2/7/2023	<0.04	<0.04	<0.04	<0.04		0.014 (J)			
2/8/2023					1.6			0.011 (J)	14.5
2/9/2023									
2/10/2023							<0.04		
8/15/2023	<0.04	<0.04	<0.04	0.046 (J)		<0.04		<0.04	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWA-17S (bg)	YGWC-24SB	YGWA-47 (bg)	YGWC-42
8/16/2023					1.2		<0.04		7.1
2/20/2024	<0.04		<0.04	<0.04		<0.04		0.023 (J)	
2/21/2024					1.3				
2/22/2024									15.5
2/23/2024		0.018 (J)					0.016 (J)		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWC-41	YGWA-40 (bg)
6/1/2016									
6/2/2016									
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016									
7/26/2016									
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016	0.0315 (J)	0.169							
9/1/2016			0.0113 (J)						
9/2/2016				0.133					
9/13/2016									
9/14/2016					<0.04				
9/15/2016									
9/16/2016									
9/19/2016									
9/20/2016									
11/1/2016									
11/2/2016									
11/3/2016									
11/4/2016					<0.04				
11/8/2016									
11/14/2016				0.287					
11/15/2016			0.0074 (J)						
11/16/2016		0.406							
11/28/2016	0.0095 (J)								
12/15/2016					0.0107 (J)				
1/10/2017									
1/11/2017									
1/12/2017									
1/13/2017									
1/16/2017					<0.04				
1/17/2017									
2/21/2017									
2/22/2017	<0.04								
2/24/2017		0.725							
2/27/2017			<0.04						
2/28/2017				0.215					
3/1/2017									
3/2/2017									
3/3/2017					<0.04				
3/6/2017									
3/7/2017									
3/8/2017									
3/9/2017									
4/26/2017									
4/27/2017									
4/28/2017					<0.04				
5/1/2017									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWC-41	YGWA-40 (bg)
5/2/2017									
5/8/2017	0.0084 (J)								
5/9/2017			<0.04	0.233					
5/10/2017		0.955							
5/26/2017					<0.04				
6/27/2017									
6/28/2017					<0.04				
6/29/2017									
6/30/2017									
7/7/2017									
7/10/2017									
7/11/2017		0.994							
7/13/2017			0.0093 (J)	0.262					
7/17/2017	0.0092 (J)								
9/22/2017				0.238					
9/29/2017				0.235					
10/3/2017					<0.04				
10/4/2017									
10/5/2017									
10/6/2017				0.256					
10/10/2017									
10/11/2017			<0.04	0.245		0.0135 (J)			
10/12/2017		1.15					19.3	12	0.0401
10/16/2017	<0.04								
11/20/2017						0.0251 (J)	21.8		0.156
11/21/2017								12.1	
1/10/2018									0.15
1/11/2018						0.0255 (J)		12.8	
1/12/2018							18.7		
2/19/2018	<0.04							15.2	0.146
2/20/2018						<0.04	18.6		
4/2/2018									
4/3/2018						0.033 (J)	20.9	14.5	0.12
4/4/2018		1.2	0.0041 (J)						
6/5/2018									
6/6/2018									
6/7/2018					<0.04				
6/8/2018									
6/11/2018									
6/12/2018									
6/13/2018				0.25					
6/27/2018								14.1	
6/28/2018						0.053	22.7		0.16
8/6/2018	<0.04								
8/7/2018						0.024 (J)	19.1	11.9	0.12
9/19/2018									
9/20/2018		2.1	0.0042 (J)						
9/24/2018						0.028 (J)	18.4	12.2	0.099
9/25/2018									
9/26/2018				0.24					
9/27/2018									
10/1/2018					<0.04				

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWC-41	YGWA-40 (bg)
10/2/2018									
2/25/2019	<0.04								
3/26/2019									0.096
3/27/2019						0.017 (J)	16.7		
3/28/2019		1.8	<0.04					7.1	
3/29/2019					0.0065 (J)				
4/1/2019									
4/2/2019									
4/3/2019									
4/4/2019				0.22					
6/12/2019	<0.04								
9/24/2019					0.0076 (J)				
9/25/2019									
9/26/2019			<0.04	0.13					
9/27/2019									
10/8/2019	<0.04								
10/9/2019		2.7				0.017 (J)	13.5	8.6	0.079
3/17/2020	0.0051 (J)								
3/18/2020									
3/19/2020					0.0073 (J)				
3/24/2020									0.088 (J)
3/25/2020		2.4	0.012 (J)	0.11		0.043 (J)	9.3	7.9	
3/26/2020									
9/22/2020	0.0079 (J)								
9/23/2020					<0.04				
9/24/2020			0.062 (J)			0.037 (J)			0.087 (J)
9/25/2020		3.9					8	6	
10/7/2020				0.018 (J)					
3/1/2021									
3/2/2021	<0.04								
3/3/2021					<0.04				
3/4/2021		3.6	<0.04	0.0088 (J)		0.033 (J)	6.4	4	0.078
8/19/2021									
8/20/2021	<0.04								
8/25/2021									
8/26/2021						0.095	6.1	3.3	
8/27/2021					<0.04				
9/1/2021			<0.04						
9/3/2021				0.012 (J)					0.077
9/27/2021		0.64							
2/8/2022	<0.04	2.3	<0.04			0.13		4	0.074
2/9/2022					<0.04				
2/10/2022							5.4		
2/11/2022				0.019 (J)					
8/30/2022	<0.04				<0.04				
8/31/2022			0.011 (J)			0.14			0.062
9/1/2022		2.6		0.067			4.8	3.6	
2/7/2023	<0.04				<0.04	0.13			
2/8/2023		2.5					4.1	3.3	0.057
2/9/2023			0.014 (J)	0.028 (J)					
2/10/2023									
8/15/2023	<0.04				<0.04	0.15 (J)			0.052 (J)

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWC-41	YGWA-40 (bg)
8/16/2023		2.8	0.012 (J)	0.058			3.7	3.1	
2/20/2024	0.017 (J)				<0.04	0.12			0.056
2/21/2024			<0.04						
2/22/2024		2.3					3.7	3.5	
2/23/2024				0.11					

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-30I (bg)
6/1/2016	2.5	21	12						
6/2/2016				28	2.4	33	1.3	8.8	1.3
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016	2.16	20.3							1.17
7/26/2016			11	24.5	2.12	32.3	1.24	7.69	
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016	2.21		11.8						
9/14/2016		19.7			2.18	31		8.49	
9/15/2016				27			1.17		
9/16/2016									
9/19/2016									1.05
9/20/2016									
11/1/2016		18.4	11	25.6					1.14
11/2/2016						30.9	1.23	7.83	
11/3/2016									
11/4/2016	2.67				2.17 (J)				
11/8/2016									
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017							1.24		
1/11/2017		20.3	11.2	27.5					
1/12/2017					2.37	35.7			
1/13/2017								8.08	
1/16/2017	2.45								1.23
1/17/2017									
2/21/2017									1.25
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017		18.6							
3/2/2017	2.57		11	27.5					
3/3/2017									
3/6/2017								8.64	
3/7/2017					2.34	32.7			
3/8/2017							1.21		
3/9/2017									
4/26/2017		25.6		30.4			1.14		1.03
4/27/2017	2.38		11.1						
4/28/2017									
5/1/2017						37		13.4	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-30I (bg)
5/2/2017					2.17				
5/8/2017									
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017	2.36		13.8		2.13	36.5			
6/28/2017		23.9		29.8					
6/29/2017								8.81	
6/30/2017							1.24		1.13
7/7/2017									
7/10/2017									
7/11/2017									
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017	2.21		14		2.15	30.9			
10/4/2017		22.1		29.7					1.09
10/5/2017							1.11	9.29	
10/6/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018			15.2 (J)						
6/6/2018	2.3					26.2			
6/7/2018				29.1	2.3			8.2	
6/8/2018		21.9 (J)					1.1		
6/11/2018									1.1
6/12/2018									
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/20/2018									
9/24/2018									
9/25/2018									
9/26/2018					2.3	25.8		9.5 (J)	
9/27/2018									
10/1/2018	1.8	19.7	15.1	26.9			0.99		

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-30I (bg)
10/2/2018									1.1
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019	2.2		13.3 (J)						
3/29/2019							1.1		
4/1/2019		20.4 (J)		30.1					1.3
4/2/2019									
4/3/2019					2.8	24.7 (J)		8.4	
4/4/2019									
6/12/2019									
9/24/2019	2.3		15.8		2.5	25.8			
9/25/2019		22.4		29.5			1.1	9.5	1.1
9/26/2019									
9/27/2019									
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020	2.1						1.1		
3/19/2020		21.9	15	31.5					1.2
3/24/2020					2.5	26.1			
3/25/2020								10.5	
3/26/2020									
9/22/2020					2.6	27.2		9.6	
9/23/2020	1.8	23.6	14.1	28.6					
9/24/2020									1.1
9/25/2020							1.3		
10/7/2020									
3/1/2021									1.2
3/2/2021					2.6	1.6	1.2		
3/3/2021	1.8	20.6	14.1	29.8				7.7	
3/4/2021									
8/19/2021	2		14.2	28.1			1.2		1.2
8/20/2021									
8/25/2021									
8/26/2021					2.5	25.2		7.6	
8/27/2021		24.7							
9/1/2021									
9/3/2021									
9/27/2021									
2/8/2022									
2/9/2022	2.1	23.7	14.9	30.3					
2/10/2022					2.5	24.8	1.3		
2/11/2022								7.5	1.5
8/30/2022			14.9		2.5	24.8			
8/31/2022	1.9	23.5		28.7			1.3	8.9	1.3
9/1/2022									
2/7/2023	2.2		15			26.6			
2/8/2023		23.3		28.9			1.5		1.3
2/9/2023					2.8			9.6	
2/10/2023									
8/15/2023	1.8		13.5	27.4	2.6	25	1.3	7.8	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-30I (bg)
8/16/2023		24.9							1.4
2/20/2024	2.2	23.7	15.3	30.7	2.7	27.2		9.9	1.3
2/21/2024									
2/22/2024									
2/23/2024							1.6		

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWA-17S (bg)	YGWC-24SB	YGWA-47 (bg)	YGWC-42
6/1/2016									
6/2/2016									
6/6/2016	6.2	1.4							
6/7/2016			2.3	3.7	9.6	2.2			
6/8/2016							1.9		
7/25/2016									
7/26/2016									
7/27/2016	4.73	1.19	2.08			2			
7/28/2016				3.15	7.87				
8/1/2016							1.83		
8/30/2016								20.9	133
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016		1.5				1.97			
9/19/2016	4.76		1.97	3.17					
9/20/2016					9.28		1.78		
11/1/2016									
11/2/2016			2.13						
11/3/2016	5.25	1.31		3.4		1.99			
11/4/2016									
11/8/2016					8.6		1.77		
11/14/2016								18.6	
11/15/2016									
11/16/2016									125
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	4.74	1.25				2.28			
1/12/2017									
1/13/2017			2.45	4.98					
1/16/2017					8.85				
1/17/2017							1.7		
2/21/2017									
2/22/2017									
2/24/2017								16.1	
2/27/2017									139
2/28/2017									
3/1/2017	5.37	1.26							
3/2/2017						2.15			
3/3/2017									
3/6/2017			2.48	6.28					
3/7/2017									
3/8/2017							1.77		
3/9/2017					8.4				
4/26/2017	4.28	1.05	2.3	6.65					
4/27/2017									
4/28/2017									
5/1/2017									

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWA-17S (bg)	YGWC-24SB	YGWA-47 (bg)	YGWC-42
5/2/2017					12.9	1.95	1.57		
5/8/2017								14.6	
5/9/2017									
5/10/2017									130
5/26/2017									
6/27/2017									
6/28/2017	4.95	1.06							
6/29/2017			2.54	6.04		2.02			
6/30/2017									
7/7/2017							1.8		
7/10/2017					8.09				
7/11/2017								14.3	172
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017				8.28					
10/4/2017		1.1	2.25			2.03			
10/5/2017	5.28						1.7		
10/6/2017									
10/10/2017								12.1	
10/11/2017					6.36				
10/12/2017									144
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018								<25	
4/3/2018									
4/4/2018									137
6/5/2018				9.1					
6/6/2018			2.3						
6/7/2018	4.8								
6/8/2018									
6/11/2018		1.4				2.1			
6/12/2018					4.7		1.8		
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018								11.1 (J)	
9/20/2018									108
9/24/2018									
9/25/2018	4.6	1	2.3	10.4 (J)		2.1			
9/26/2018							1.7		
9/27/2018					4.1				
10/1/2018									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWA-17S (bg)	YGWC-24SB	YGWA-47 (bg)	YGWC-42
10/2/2018									
2/25/2019									
3/26/2019									
3/27/2019								10.8 (J)	109
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019				8.8		2.5			
4/3/2019	5.3	1.2	2.9						
4/4/2019					3.7		1.9		
6/12/2019									
9/24/2019				7.7					
9/25/2019			2.4			2.6			
9/26/2019	4.9	1.1					1.7		
9/27/2019					3.7				
10/8/2019								9.7	
10/9/2019									92
3/17/2020								14.8	
3/18/2020									
3/19/2020									
3/24/2020	5.3	1	2.6	6		2.7			
3/25/2020									107
3/26/2020					5.6		1.7		
9/22/2020								10.1	
9/23/2020	5.2	0.91 (J)				2.6	2.4		
9/24/2020			2.6	7.8	7.9				84.3
9/25/2020									
10/7/2020									
3/1/2021								10.3	
3/2/2021									
3/3/2021	5.2	0.96 (J)	2.4			2.5	2.4		
3/4/2021				8.7	10.2				90.7
8/19/2021								9.6	
8/20/2021									
8/25/2021					10.6				79.9
8/26/2021		0.98 (J)							
8/27/2021	5.1		2.4			2.7			
9/1/2021				9.5			2.3		
9/3/2021									
9/27/2021									
2/8/2022								9.4	
2/9/2022	5.1	0.87 (J)	2.3	9.8		2.8			
2/10/2022					11.8		2.2		74.4
2/11/2022									
8/30/2022	5.7	0.77 (J)		7.3		3			
8/31/2022			2.4					9.6	
9/1/2022					11.2				68.5
2/7/2023	5.5	0.79 (J)	2.4	7.5		2.9			
2/8/2023					10.9			9.2	74.6
2/9/2023									
2/10/2023							2.4		
8/15/2023	5.1	0.8 (J)	2.2	6.1		2.9		9.6	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWA-17S (bg)	YGWC-24SB	YGWA-47 (bg)	YGWC-42
8/16/2023					11.2		2.2		69.2
2/20/2024	5.6		2.5	7		3.2		10.3	
2/21/2024					11.1				
2/22/2024									73.5
2/23/2024		0.84 (J)					2.6		

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWC-41	YGWA-40 (bg)
6/1/2016									
6/2/2016									
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016									
7/26/2016									
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016	9.31	3.4							
9/1/2016			13.9						
9/2/2016				11.2					
9/13/2016									
9/14/2016					23.5				
9/15/2016									
9/16/2016									
9/19/2016									
9/20/2016									
11/1/2016									
11/2/2016									
11/3/2016									
11/4/2016					23.7				
11/8/2016									
11/14/2016				7.79					
11/15/2016			13.5						
11/16/2016		3.79							
11/28/2016	9.47 (B)								
12/15/2016					23.1				
1/10/2017									
1/11/2017									
1/12/2017									
1/13/2017									
1/16/2017					23.3				
1/17/2017									
2/21/2017									
2/22/2017	10.4								
2/24/2017		6.42							
2/27/2017			12.5						
2/28/2017				8.37					
3/1/2017									
3/2/2017									
3/3/2017					25.1				
3/6/2017									
3/7/2017									
3/8/2017									
3/9/2017									
4/26/2017									
4/27/2017									
4/28/2017					30.7				
5/1/2017									

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWC-41	YGWA-40 (bg)
5/2/2017									
5/8/2017	14.2								
5/9/2017			14.4	13.9					
5/10/2017		7.9							
5/26/2017					26.2				
6/27/2017									
6/28/2017					26.1				
6/29/2017									
6/30/2017									
7/7/2017									
7/10/2017									
7/11/2017		6.71							
7/13/2017			14.1	16.6					
7/17/2017	14.1								
9/22/2017				18.4					
9/29/2017				16.1					
10/3/2017					26.7				
10/4/2017									
10/5/2017									
10/6/2017				16.6					
10/10/2017									
10/11/2017			12.4	18.1		2.74			
10/12/2017		7.05					190	44.5	2.9
10/16/2017	13.6								
11/20/2017						1.81	184		10.4
11/21/2017								44.4	
1/10/2018									10.2
1/11/2018						1.54		43.9	
1/12/2018							178		
2/19/2018	<25							45.3	<25
2/20/2018						1.71	184		
4/2/2018									
4/3/2018						1.4	174	42.7	6.3
4/4/2018		8.6	<25						
6/5/2018									
6/6/2018									
6/7/2018					25				
6/8/2018									
6/11/2018									
6/12/2018									
6/13/2018				18.7 (J)					
6/27/2018								42.2	
6/28/2018						1.4	190		6.7
8/6/2018	11.4 (J)								
8/7/2018						1.2	176	40.7	6.3
9/19/2018									
9/20/2018		15.9 (J)	12 (J)						
9/24/2018						1.1	172	38.5	5.7
9/25/2018									
9/26/2018				19.8 (J)					
9/27/2018									
10/1/2018					25				

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWC-41	YGWA-40 (bg)
10/2/2018									
2/25/2019	12.7 (J)								
3/26/2019									5.6
3/27/2019						1.5	155		
3/28/2019		8.9	11.3 (J)					26	
3/29/2019					23.5 (J)				
4/1/2019									
4/2/2019									
4/3/2019									
4/4/2019				16.9 (J)					
6/12/2019	18.9								
9/24/2019					26.4				
9/25/2019									
9/26/2019			12.1	11.7					
9/27/2019									
10/8/2019	28.3								
10/9/2019		18.2				2.4	133	27.6	4.9
3/17/2020	24.3								
3/18/2020									
3/19/2020					27.4				
3/24/2020									4.8
3/25/2020		12.1	13.2	10.6		2.7	124	29.6	
3/26/2020									
9/22/2020	31								
9/23/2020					26.3				
9/24/2020			12			3.7			4.4
9/25/2020		19.8					93.7	20.5	
10/7/2020				9.9					
3/1/2021									
3/2/2021	34.2								
3/3/2021					25.6				
3/4/2021		32.2	13	5.6		8.2	87	16.4	4.6
8/19/2021									
8/20/2021	26.5								
8/25/2021									
8/26/2021						14.1	73.6	12.8	
8/27/2021					22.6				
9/1/2021			12.1						
9/3/2021				4.1					5.6
9/27/2021		4.1							
2/8/2022	25.6	9.9	12.7			15.2		15	6
2/9/2022					23.4				
2/10/2022							68.9		
2/11/2022				4.6					
8/30/2022	23.5				25.4				
8/31/2022			11.6			16.3			6.2
9/1/2022		10.7		6.3			59.4	12.9	
2/7/2023	22.3				25.6	16.1			
2/8/2023		11					55.3	14.4	5.9
2/9/2023			11.8	9.2					
2/10/2023									
8/15/2023	20.3				23.2	17.2			5.3

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWC-41	YGWA-40 (bg)
8/16/2023		10.7	11.1	20			50.9	13.5	
2/20/2024	22.8				28.2	16.9			5.6
2/21/2024			11.1						
2/22/2024		10.5					49.7	14.4	
2/23/2024				33.6					

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-30I (bg)
6/1/2016	1.6	1.3	1.3						
6/2/2016				1.4	4.3	7.2	4.1	3.7	1.9
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016	1.4	1.3							1.7
7/26/2016			1.2	1.6	4.4	6.6	4	3.6	
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016	1.3		1.1						
9/14/2016		1.3			3.8	6.6		3.4	
9/15/2016				1.5			4.2		
9/16/2016									
9/19/2016									1.6
9/20/2016									
11/1/2016		1.4	1.3	1.7					1.8
11/2/2016						7.6	4.9	4.5	
11/3/2016									
11/4/2016	1.6				4.8				
11/8/2016									
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017							4.1		
1/11/2017		1.1	1.1	1.2					
1/12/2017					3.8	6.8			
1/13/2017								4.2	
1/16/2017	1.4								1.7
1/17/2017									
2/21/2017									1.7
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017		1.1							
3/2/2017	1.3		1	1.2					
3/3/2017									
3/6/2017								3.6	
3/7/2017					4.5	6.8			
3/8/2017							4.2		
3/9/2017									
4/26/2017		1.1		1.2			4.1		1.7
4/27/2017	1.3		1						
4/28/2017									
5/1/2017						7.2		4.3	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-30I (bg)
5/2/2017					4.6				
5/8/2017									
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017	1.4		1.1		4.3	7			
6/28/2017		1.2		1.3					
6/29/2017								4.2	
6/30/2017							3.7		1.8
7/7/2017									
7/10/2017									
7/11/2017									
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017	1.7		1.1		4.2	6.5			
10/4/2017		1.2		1.5					1.8
10/5/2017							3.8	4.7	
10/6/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018			1.1						
6/6/2018	1.4					4.7			
6/7/2018				1.2	4.5			4.4	
6/8/2018		1.2					3.4		
6/11/2018									2
6/12/2018									
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/20/2018									
9/24/2018									
9/25/2018									
9/26/2018					5.1	4.8		4.8	
9/27/2018									
10/1/2018	1.4	1.2	1.1	1.5			3.8		

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-30I (bg)
10/2/2018									1.8
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019	1.5		1.4						
3/29/2019							4.2		
4/1/2019		1.1		1.2					1.7
4/2/2019									
4/3/2019					4.2	4		4.3	
4/4/2019									
6/12/2019									
9/24/2019	1.3		1.1		4.5	3.7			
9/25/2019		1.1		1.1			4.8	4.5	1.6
9/26/2019									
9/27/2019									
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020	1.4						5.2		
3/19/2020		1.1	1.1	1.2					1.8
3/24/2020					4.3	3.5			
3/25/2020								3.9	
3/26/2020									
9/22/2020					4.2	3.6		4.5	
9/23/2020	1.2	1	0.99 (J)	1.1					
9/24/2020									1.5
9/25/2020							5.3		
10/7/2020									
3/1/2021									1.6
3/2/2021					4.3	3.2	4.9		
3/3/2021	1.2	0.99 (J)	0.96 (J)	1.1				4.1	
3/4/2021									
8/19/2021	1.3		1.1	1.1			5		1.6
8/20/2021									
8/25/2021									
8/26/2021					4.3	3.4		4.4	
8/27/2021		1.1							
9/1/2021									
9/3/2021									
9/27/2021									
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								4.1	2.1
8/30/2022			1.3		4.4	3.5			
8/31/2022	1.5	1.3		1.3			4.6	4.4	1.8
9/1/2022									
2/7/2023	1.5		1.3			3.3			
2/8/2023		1.1		1.2			4.9		1.6
2/9/2023					5			4.5	
2/10/2023									
8/15/2023	1.4		1.1	1.1	4.1	3.1	4.1	4.4	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-30I (bg)
8/16/2023		1.1							1.5
2/20/2024	1.2	1.1	1	1.1	4.8	3.2		4.6	1.4
2/21/2024									
2/22/2024									
2/23/2024							4.8		

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWA-17S (bg)	YGWC-24SB	YGWA-47 (bg)	YGWC-42
6/1/2016									
6/2/2016									
6/6/2016	6.8	6.4							
6/7/2016			1.9	2.8	2.9	4.5			
6/8/2016							5.9		
7/25/2016									
7/26/2016									
7/27/2016	6.7	6.2	1.9			4.5			
7/28/2016				2.6	3.5				
8/1/2016							5.3		
8/30/2016								5.2	4.4
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016		6.1				4.5			
9/19/2016	7		1.9	2.4					
9/20/2016					2.4		5.5		
11/1/2016									
11/2/2016			2.6						
11/3/2016	7.5	7.4		2.9		5.4			
11/4/2016									
11/8/2016					2.8		6.4		
11/14/2016								6.4	
11/15/2016									
11/16/2016									4.7
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	6.5	6.1				4.7			
1/12/2017									
1/13/2017			2.3	2.5					
1/16/2017					1.8				
1/17/2017							5.5		
2/21/2017									
2/22/2017									
2/24/2017								5.5	
2/27/2017									4.7
2/28/2017									
3/1/2017	6.9	6							
3/2/2017						4.8			
3/3/2017									
3/6/2017			1.9	2.1					
3/7/2017									
3/8/2017							5.4		
3/9/2017					1.7				
4/26/2017	7	6.5	2	2.1					
4/27/2017									
4/28/2017									
5/1/2017									

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWA-17S (bg)	YGWC-24SB	YGWA-47 (bg)	YGWC-42
5/2/2017					1.8	4.6	5.7		
5/8/2017								5.8	
5/9/2017									
5/10/2017									4.4
5/26/2017									
6/27/2017									
6/28/2017	7	6.4							
6/29/2017			2.6	2.8		4.5			
6/30/2017									
7/7/2017							5.7		
7/10/2017					1.9				
7/11/2017								5.8	4.7
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017				2.2					
10/4/2017		6.8	2.6			4.7			
10/5/2017	7						6		
10/6/2017									
10/10/2017								5.9	
10/11/2017					2.4				
10/12/2017									4.3
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018								4.8	
4/3/2018									
4/4/2018									3.7
6/5/2018				1.7					
6/6/2018			2.7						
6/7/2018	6.8								
6/8/2018									
6/11/2018		6.8				4.9			
6/12/2018					1.8		6.2		
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018								4	
9/20/2018									3.8
9/24/2018									
9/25/2018	7.9	7.8	3.6	2.2		5.6			
9/26/2018							6.9		
9/27/2018					2				
10/1/2018									

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWA-17S (bg)	YGWC-24SB	YGWA-47 (bg)	YGWC-42
10/2/2018									
2/25/2019									
3/26/2019									
3/27/2019								4.3	3.9
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019				2.5		4.8			
4/3/2019	6.9	6.3	3.1						
4/4/2019					1.7		5.9		
6/12/2019									
9/24/2019				3.1					
9/25/2019			2.8			5.7			
9/26/2019	7	7.1					6.5		
9/27/2019					1.7				
10/8/2019								4.4	
10/9/2019									4.1
3/17/2020								4.1	
3/18/2020									
3/19/2020									
3/24/2020	7	6.8	2.7	2.8		5			
3/25/2020									3.2
3/26/2020					1.6		5.4		
9/22/2020								4.2	
9/23/2020	7.2	7.2				6.6	9.3		
9/24/2020			2.7	2	2				3.3
9/25/2020									
10/7/2020									
3/1/2021								3.7	
3/2/2021									
3/3/2021	7	7.2	2.7			7.1	8.6		
3/4/2021				1.8	1.8				2.7
8/19/2021								3.5	
8/20/2021									
8/25/2021					2.5				3.4
8/26/2021		7.3							
8/27/2021	7.4		2.8			8.5			
9/1/2021				1.8			8.9		
9/3/2021									
9/27/2021									
2/8/2022								3.2	
2/9/2022	7.5	7	2.8	1.7		10.9			
2/10/2022					1.9		8.7		3.3
2/11/2022									
8/30/2022	7.9	7		2.4		12			
8/31/2022			2.9					3.5	
9/1/2022					2				3.3
2/7/2023	7.4	6.4	2.9	2.4		11.4			
2/8/2023					2			3.5	3.4
2/9/2023									
2/10/2023							9.1		
8/15/2023	7.3	6.7	2.8	2.3		11.6		3.5	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWA-17S (bg)	YGWC-24SB	YGWA-47 (bg)	YGWC-42
8/16/2023					2.7		8.1		2.8
2/20/2024	7.6		2.9	2.3		12.2		3.2	
2/21/2024					2.4				
2/22/2024									3.3
2/23/2024		6.6					8.3		

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWC-41	YGWA-40 (bg)
6/1/2016									
6/2/2016									
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016									
7/26/2016									
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016	4	1.5							
9/1/2016			5.3						
9/2/2016				6.3					
9/13/2016									
9/14/2016					1.1				
9/15/2016									
9/16/2016									
9/19/2016									
9/20/2016									
11/1/2016									
11/2/2016									
11/3/2016									
11/4/2016					1.4				
11/8/2016									
11/14/2016				6.7					
11/15/2016			5.8						
11/16/2016		1.7							
11/28/2016	4.2								
12/15/2016					2.9				
1/10/2017									
1/11/2017									
1/12/2017									
1/13/2017									
1/16/2017					0.98				
1/17/2017									
2/21/2017									
2/22/2017	3.7								
2/24/2017		1.5							
2/27/2017			4.6						
2/28/2017				5.4					
3/1/2017									
3/2/2017									
3/3/2017					1.1				
3/6/2017									
3/7/2017									
3/8/2017									
3/9/2017									
4/26/2017									
4/27/2017									
4/28/2017					0.91				
5/1/2017									

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWC-41	YGWA-40 (bg)
5/2/2017									
5/8/2017	4.2								
5/9/2017			5.3	5.7					
5/10/2017		1.2							
5/26/2017					0.93				
6/27/2017									
6/28/2017					1				
6/29/2017									
6/30/2017									
7/7/2017									
7/10/2017									
7/11/2017		1.5							
7/13/2017			4.7	5.4					
7/17/2017	3.8								
9/22/2017				6.9					
9/29/2017				5.5					
10/3/2017					1.2				
10/4/2017									
10/5/2017									
10/6/2017				5.5					
10/10/2017									
10/11/2017			5.8	6.4		2.4			
10/12/2017		1.6					6	3.1	3.8
10/16/2017	4.2								
11/20/2017						1.8	6.9		4.4
11/21/2017								4.2	
1/10/2018									4.6
1/11/2018						1.6		3.8	
1/12/2018							6.6		
2/19/2018	4.3							3.5	4.6
2/20/2018						2	6.2		
4/2/2018									
4/3/2018						3.3	6.9	4.4	5.9
4/4/2018		1.8	4.3						
6/5/2018									
6/6/2018									
6/7/2018					1				
6/8/2018									
6/11/2018									
6/12/2018									
6/13/2018				5.6					
6/27/2018								3.6	
6/28/2018						2.1	6.4		5
8/6/2018	3.8								
8/7/2018						1.2	5.5	3.3	4.3
9/19/2018									
9/20/2018		1.9	4.8						
9/24/2018						1.3	5.9	3.3	4.9
9/25/2018									
9/26/2018				6					
9/27/2018									
10/1/2018					1.1				

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWC-41	YGWA-40 (bg)
10/2/2018									
2/25/2019	4.1								
3/26/2019									4.4
3/27/2019						1.4	6.2		
3/28/2019		1.8	4.4					3.2	
3/29/2019					1.2				
4/1/2019									
4/2/2019									
4/3/2019									
4/4/2019				5.4					
6/12/2019	4.7								
9/24/2019					0.95 (J)				
9/25/2019									
9/26/2019			5	7.1					
9/27/2019									
10/8/2019	5.1								
10/9/2019		2.3				2.1	5	3.3	5.1
3/17/2020	4.8								
3/18/2020									
3/19/2020					0.97 (J)				
3/24/2020									4.7
3/25/2020		1.8	4.1	6.3		1.9	4	2.7	
3/26/2020									
9/22/2020	4.2								
9/23/2020					0.88 (J)				
9/24/2020			4.6			2.7			5
9/25/2020		2.3					4	3	
10/7/2020				8.7					
3/1/2021									
3/2/2021	4.1								
3/3/2021					0.86 (J)				
3/4/2021		2.1	4.1	6.6		4.9	3.9	3.4	4.9
8/19/2021									
8/20/2021	5.2								
8/25/2021									
8/26/2021						7.2	4.1	3.6	
8/27/2021					0.99 (J)				
9/1/2021			4.4						
9/3/2021				7					5.5
9/27/2021		1.1							
2/8/2022	5.7	2.1	4.2			7.4		3.5	6.2
2/9/2022					1 (J)				
2/10/2022							4		
2/11/2022				6.6					
8/30/2022	6.3				1.2				
8/31/2022			4.3			6.7			6.3
9/1/2022		2.1		6.2			4.2	3.8	
2/7/2023	6.1				1.1	5.6			
2/8/2023		2.4					3.9	4	6.9
2/9/2023			4.4	5.9					
2/10/2023									
8/15/2023	5.6				0.93 (J)	4.5			5.6

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWC-41	YGWA-40 (bg)
8/16/2023		2.3	3.8	4.9			3.7	3.7	
2/20/2024	6.1				0.96 (J)	4.6			5.7
2/21/2024			4						
2/22/2024		2.3					3.7	3.9	
2/23/2024				4.8					

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-5D (bg)	YGWA-4I (bg)
6/1/2016	0.15 (J)	0.12 (J)	<0.1						
6/2/2016				<0.1	<0.1	0.62	<0.1	0.11 (J)	<0.1
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016	0.14 (J)		0.06 (J)				0.06 (J)		
7/26/2016		0.08 (J)		<0.1	0.02 (J)	0.49		0.05 (J)	<0.1
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016		0.11 (J)	<0.1						
9/14/2016	0.18 (J)			<0.1				0.04 (J)	<0.1
9/15/2016					<0.1	0.54			
9/16/2016									
9/19/2016							<0.1		
9/20/2016									
11/1/2016	<0.1	<0.1				0.68	<0.1		
11/2/2016					<0.1			<0.1	<0.1
11/3/2016									
11/4/2016			<0.1	<0.1					
11/8/2016									
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017					<0.1				
1/11/2017	0.09 (J)	0.05 (J)				0.49			
1/12/2017				<0.1				0.04 (J)	
1/13/2017									<0.1
1/16/2017			<0.1				<0.1		
1/17/2017									
2/21/2017							<0.1		
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017	<0.1								
3/2/2017		<0.1	<0.1			0.48			
3/3/2017									
3/6/2017									<0.1
3/7/2017				<0.1				<0.1	
3/8/2017					<0.1				
3/9/2017									
4/26/2017	0.08 (J)				<0.1	0.48	<0.1		
4/27/2017		0.04 (J)	0.01 (J)						
4/28/2017									
5/1/2017								<0.1	<0.1

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-5D (bg)	YGWA-4I (bg)
5/2/2017				<0.1					
5/8/2017									
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017		<0.1	<0.1	<0.1				<0.1	
6/28/2017	0.12 (J)					0.47			
6/29/2017									<0.1
6/30/2017					<0.1		<0.1		
7/7/2017									
7/10/2017									
7/11/2017									
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017		<0.1	<0.1	<0.1				<0.1	
10/4/2017	<0.1					<0.1	<0.1		
10/5/2017					<0.1				<0.1
10/6/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
3/27/2018			<0.1		<0.1		<0.1		
3/28/2018	<0.1					0.56			
3/29/2018		<0.1		<0.1				<0.1	<0.1
3/30/2018									
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018		0.055 (J)							
6/6/2018			<0.1					0.15 (J)	
6/7/2018				<0.1		0.48			<0.1
6/8/2018	0.2 (J)				<0.1				
6/11/2018							<0.1		
6/12/2018									
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/20/2018									
9/24/2018									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-5D (bg)	YGWA-4I (bg)
9/25/2018									
9/26/2018				<0.1				<0.1	<0.1
9/27/2018									
10/1/2018	<0.1	<0.1	<0.1		<0.1	0.44			
10/2/2018							<0.1		
2/25/2019									
2/26/2019					<0.1		<0.1		
2/27/2019	0.13 (J)	0.052 (J)	<0.1			0.53			
3/4/2019				<0.1				0.19 (J)	<0.1
3/5/2019									
3/6/2019									
3/26/2019									
3/27/2019									
3/28/2019		0.036 (J)	<0.1						
3/29/2019					<0.1				
4/1/2019	0.1 (J)					0.45	<0.1		
4/2/2019									
4/3/2019				<0.1				0.047 (J)	<0.1
4/4/2019									
6/12/2019									
8/19/2019									
8/20/2019									
8/21/2019									
8/22/2019									
9/24/2019		0.063 (J)	<0.1	<0.1				0.05 (J)	
9/25/2019	0.1 (J)				<0.1	0.46	<0.1		<0.1
9/26/2019									
9/27/2019									
10/8/2019									
10/9/2019									
2/10/2020		0.061 (J)	<0.1						
2/11/2020	0.094 (J)								
2/12/2020				<0.1	<0.1	0.4	<0.1	<0.1	<0.1
3/17/2020									
3/18/2020			<0.1		<0.1				
3/19/2020	0.11 (J)	0.064 (J)				0.51	<0.1		
3/24/2020				<0.1				<0.1	
3/25/2020									<0.1
3/26/2020									
8/26/2020									
8/27/2020									
9/22/2020				<0.1				0.056 (J)	<0.1
9/23/2020	0.098 (J)	0.058 (J)	<0.1			0.47			
9/24/2020							<0.1		
9/25/2020					<0.1				
10/7/2020									
2/8/2021				<0.1				0.055 (J)	
2/9/2021									<0.1
2/10/2021	<0.1				<0.1	0.43			
2/11/2021							<0.1		
2/12/2021		0.068 (J)	<0.1						
3/1/2021							<0.1		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-5D (bg)	YGWA-4I (bg)
3/2/2021				<0.1	<0.1			<0.1	
3/3/2021	0.1	0.078 (J)	<0.1			0.44			<0.1
3/4/2021									
8/19/2021		0.074 (J)	<0.1		<0.1	0.47	<0.1		
8/20/2021									
8/25/2021									
8/26/2021				<0.1				0.061 (J)	<0.1
8/27/2021	0.12								
9/1/2021									
9/3/2021									
9/27/2021									
2/8/2022									
2/9/2022	0.097 (J)	0.057 (J)	<0.1			0.43			
2/10/2022				<0.1	<0.1			0.055 (J)	
2/11/2022							<0.1		<0.1
8/30/2022		0.093 (J)		<0.1				0.085 (J)	
8/31/2022	0.13		0.065 (J)		0.053 (J)	0.42	0.06 (J)		0.061 (J)
9/1/2022									
2/7/2023		0.093 (J)	0.071 (J)					0.082 (J)	
2/8/2023	0.16				0.059 (J)	0.56	0.064 (J)		
2/9/2023				<0.1					0.067 (J)
2/10/2023									
8/15/2023		0.057 (J)	<0.1	<0.1	<0.1	0.42		<0.1	<0.1
8/16/2023	0.11						<0.1		
2/20/2024	0.12	0.086 (J)	<0.1	<0.1		0.45	0.051 (J)	0.076 (J)	0.059 (J)
2/21/2024									
2/22/2024									
2/23/2024					<0.1				

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWC-23S	YGWA-21I (bg)	YGWC-24SB	YGWA-47 (bg)	YGWC-42
6/1/2016									
6/2/2016									
6/6/2016	<0.1	<0.1							
6/7/2016			<0.1	<0.1	<0.1	<0.1			
6/8/2016							<0.1		
7/25/2016									
7/26/2016									
7/27/2016	<0.1	<0.1	<0.1	<0.1					
7/28/2016					0.03 (J)	0.02 (J)			
8/1/2016							<0.1		
8/30/2016								0.09 (J)	0.02 (J)
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016		<0.1	<0.1						
9/19/2016	<0.1			<0.1		0.02 (J)			
9/20/2016					<0.1		<0.1		
11/1/2016									
11/2/2016				<0.1					
11/3/2016	<0.1	<0.1	<0.1			<0.1			
11/4/2016									
11/8/2016					<0.1		<0.1		
11/14/2016								0.18 (J)	
11/15/2016									
11/16/2016									0.07 (J)
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	<0.1	<0.1	<0.1						
1/12/2017									
1/13/2017				<0.1		<0.1			
1/16/2017					<0.1				
1/17/2017							<0.1		
2/21/2017									
2/22/2017									
2/24/2017								0.05 (J)	
2/27/2017									0.06 (J)
2/28/2017									
3/1/2017	<0.1	<0.1							
3/2/2017			<0.1						
3/3/2017									
3/6/2017				<0.1		<0.1			
3/7/2017									
3/8/2017							<0.1		
3/9/2017					<0.1				
4/26/2017	<0.1	<0.1		<0.1		0.04 (J)			
4/27/2017									
4/28/2017									
5/1/2017									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWC-23S	YGWA-21I (bg)	YGWC-24SB	YGWA-47 (bg)	YGWC-42
5/2/2017			<0.1		<0.1		<0.1		
5/8/2017								0.03 (J)	
5/9/2017									
5/10/2017									<0.1
5/26/2017									
6/27/2017									
6/28/2017	<0.1	<0.1							
6/29/2017			<0.1	<0.1		<0.1			
6/30/2017									
7/7/2017							<0.1		
7/10/2017					<0.1				
7/11/2017								0.07 (J)	<0.1
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017						<0.1			
10/4/2017		<0.1	<0.1	<0.1					
10/5/2017	<0.1						<0.1		
10/6/2017									
10/10/2017								<0.1	
10/11/2017					<0.1				
10/12/2017									<0.1
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
3/27/2018									
3/28/2018	<0.1	<0.1	<0.1						
3/29/2018				<0.1		<0.1			
3/30/2018					<0.1		<0.1		
4/2/2018								<0.1	
4/3/2018									
4/4/2018									<0.1
6/5/2018						0.13 (J)			
6/6/2018				<0.1					
6/7/2018	<0.1								
6/8/2018									
6/11/2018		<0.1	<0.1						
6/12/2018					<0.1		<0.1		
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018								<0.1	
9/20/2018									0.041 (J)
9/24/2018									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWC-23S	YGWA-21I (bg)	YGWC-24SB	YGWA-47 (bg)	YGWC-42
9/25/2018	<0.1	<0.1	<0.1	<0.1		0 (J)			
9/26/2018							<0.1		
9/27/2018					<0.1				
10/1/2018									
10/2/2018									
2/25/2019									
2/26/2019									
2/27/2019									
3/4/2019									
3/5/2019		<0.1	<0.1	<0.1		0.32	<0.1		
3/6/2019	<0.1				<0.1				
3/26/2019									
3/27/2019								0.081 (J)	<0.1
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019			<0.1			0.12 (J)			
4/3/2019	<0.1	<0.1		<0.1					
4/4/2019					0.049 (J)		0.033 (J)		
6/12/2019									
8/19/2019									
8/20/2019								<0.1	
8/21/2019									
8/22/2019									<0.1
9/24/2019						0.15 (J)			
9/25/2019			<0.1	<0.1					
9/26/2019	<0.1	<0.1					0.098 (J)		
9/27/2019					0.12 (J)				
10/8/2019								0.034 (J)	
10/9/2019									<0.1
2/10/2020									
2/11/2020	<0.1	<0.1	<0.1						
2/12/2020				<0.1		0.1 (J)			
3/17/2020								<0.1	
3/18/2020									
3/19/2020									
3/24/2020	<0.1	<0.1	<0.1	<0.1		0.081 (J)			
3/25/2020									<0.1
3/26/2020					<0.1		<0.1		
8/26/2020									
8/27/2020								<0.1	
9/22/2020								<0.1	
9/23/2020	<0.1	<0.1	<0.1				<0.1		
9/24/2020				<0.1	<0.1	0.079 (J)			<0.1
9/25/2020									
10/7/2020									
2/8/2021									
2/9/2021	<0.1	<0.1		<0.1	<0.1	0.092 (J)	<0.1		
2/10/2021									<0.1
2/11/2021									
2/12/2021									
3/1/2021								<0.1	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWC-23S	YGWA-21I (bg)	YGWC-24SB	YGWA-47 (bg)	YGWC-42
3/2/2021									
3/3/2021	<0.1	<0.1	<0.1	<0.1			<0.1		
3/4/2021					<0.1	0.091 (J)			<0.1
8/19/2021								<0.1	
8/20/2021									
8/25/2021					<0.1				<0.1
8/26/2021		<0.1							
8/27/2021	<0.1		<0.1	<0.1					
9/1/2021						0.11	<0.1		
9/3/2021									
9/27/2021									
2/8/2022								<0.1	
2/9/2022	<0.1	<0.1	<0.1	<0.1		0.1			
2/10/2022					<0.1		<0.1		<0.1
2/11/2022									
8/30/2022	<0.1	<0.1	<0.1			0.1			
8/31/2022				<0.1				0.065 (J)	
9/1/2022					0.057 (J)				0.053 (J)
2/7/2023	<0.1	<0.1	<0.1	<0.1		0.1			
2/8/2023					<0.1			0.077 (J)	0.08 (J)
2/9/2023									
2/10/2023							0.051 (J)		
8/15/2023	<0.1	<0.1	<0.1	<0.1		0.061 (J)		<0.1	
8/16/2023					<0.1		<0.1		<0.1
2/20/2024	<0.1		<0.1	<0.1		0.083 (J)		0.073 (J)	
2/21/2024					<0.1				
2/22/2024									<0.1
2/23/2024		<0.1					<0.1		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-41	YGWC-38	YGWA-40 (bg)
6/1/2016									
6/2/2016									
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016									
7/26/2016									
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016	0.14 (J)	0.12 (J)							
9/1/2016			0.09 (J)						
9/2/2016				0.05 (J)					
9/13/2016									
9/14/2016					0.08 (J)				
9/15/2016									
9/16/2016									
9/19/2016									
9/20/2016									
11/1/2016									
11/2/2016									
11/3/2016									
11/4/2016					<0.1				
11/8/2016									
11/14/2016				0.18 (J)					
11/15/2016			0.16 (J)						
11/16/2016		0.2 (J)							
11/28/2016	0.12 (J)								
12/15/2016					0.06 (J)				
1/10/2017									
1/11/2017									
1/12/2017									
1/13/2017									
1/16/2017					0.1 (J)				
1/17/2017									
2/21/2017									
2/22/2017	0.09 (J)								
2/24/2017		0.21 (J)							
2/27/2017			0.06 (J)						
2/28/2017				0.09 (J)					
3/1/2017									
3/2/2017									
3/3/2017					<0.1				
3/6/2017									
3/7/2017									
3/8/2017									
3/9/2017									
4/26/2017									
4/27/2017									
4/28/2017					0.06 (J)				
5/1/2017									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-41	YGWC-38	YGWA-40 (bg)
5/2/2017									
5/8/2017	0.05 (J)								
5/9/2017			0.05 (J)	0.009 (J)					
5/10/2017		0.04 (J)							
5/26/2017					0.09 (J)				
6/27/2017									
6/28/2017					0.11 (J)				
6/29/2017									
6/30/2017									
7/7/2017									
7/10/2017									
7/11/2017		0.2 (J)							
7/13/2017			<0.1	<0.1					
7/17/2017	0.14 (J)								
9/22/2017				0.09 (J)					
9/29/2017				<0.1					
10/3/2017					<0.1				
10/4/2017									
10/5/2017									
10/6/2017				<0.1					
10/10/2017									
10/11/2017			0.14 (J)	<0.1		<0.1			
10/12/2017		0.1 (J)					<0.1	<0.1	<0.1
10/16/2017	0.12 (J)								
11/20/2017						<0.1		0.2 (J)	<0.1
11/21/2017							<0.1		
1/10/2018									<0.1
1/11/2018						<0.1	<0.1		
1/12/2018								0.21 (J)	
2/19/2018	0.17						<0.1		<0.1
2/20/2018						0.23		<0.1	
3/27/2018									
3/28/2018					0.31				
3/29/2018									
3/30/2018				<0.1					
4/2/2018									
4/3/2018						<0.1	<0.1	0.41	<0.1
4/4/2018		<0.1	<0.1						
6/5/2018									
6/6/2018									
6/7/2018					0.11 (J)				
6/8/2018									
6/11/2018									
6/12/2018									
6/13/2018				<0.1					
6/27/2018							<0.1		
6/28/2018						<0.1		0.43	<0.1
8/6/2018	0.087 (J)								
8/7/2018						0.048 (J)	0.11 (J)	<0.1	<0.1
9/19/2018									
9/20/2018		<0.1	<0.1						
9/24/2018						<0.1	<0.1	0.034 (J)	<0.1

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-41	YGWC-38	YGWA-40 (bg)
9/25/2018									
9/26/2018				<0.1					
9/27/2018									
10/1/2018					<0.1				
10/2/2018									
2/25/2019	0.14 (J)								
2/26/2019									
2/27/2019					0.12 (J)				
3/4/2019									
3/5/2019									
3/6/2019				<0.1					
3/26/2019									<0.1
3/27/2019						<0.1		0.24 (J)	
3/28/2019		0.078 (J)	<0.1				0.1 (J)		
3/29/2019					0.13 (J)				
4/1/2019									
4/2/2019									
4/3/2019									
4/4/2019				0.043 (J)					
6/12/2019	0.12 (J)								
8/19/2019	<0.1								
8/20/2019									
8/21/2019		0.062 (J)				<0.1			<0.1
8/22/2019							<0.1	<0.1	
9/24/2019					0.081 (J)				
9/25/2019									
9/26/2019			0.09 (J)	0.094 (J)					
9/27/2019									
10/8/2019	0.052 (J)								
10/9/2019		<0.1				<0.1	<0.1	<0.1	<0.1
2/10/2020									
2/11/2020					0.075 (J)				
2/12/2020						<0.1			<0.1
3/17/2020	0.053 (J)								
3/18/2020									
3/19/2020					0.093 (J)				
3/24/2020									<0.1
3/25/2020		0.073 (J)	<0.1	<0.1		<0.1	<0.1	<0.1	
3/26/2020									
8/26/2020	0.068 (J)								
8/27/2020									
9/22/2020	0.058 (J)								
9/23/2020					0.08 (J)				
9/24/2020			<0.1			<0.1			<0.1
9/25/2020		<0.1					<0.1	<0.1	
10/7/2020				<0.1					
2/8/2021									
2/9/2021		0.058 (J)	<0.1					<0.1	
2/10/2021				<0.1	0.094 (J)	<0.1	<0.1		<0.1
2/11/2021									
2/12/2021									
3/1/2021									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-41	YGWC-38	YGWA-40 (bg)
3/2/2021	0.073 (J)								
3/3/2021					0.085 (J)				
3/4/2021		0.063 (J)	<0.1	<0.1		<0.1	<0.1	<0.1	<0.1
8/19/2021									
8/20/2021	0.06 (J)								
8/25/2021									
8/26/2021						0.063 (J)	<0.1	<0.1	
8/27/2021					0.12				
9/1/2021			<0.1						
9/3/2021				<0.1					<0.1
9/27/2021		0.1							
2/8/2022	0.064 (J)	0.066 (J)	<0.1			0.052 (J)	<0.1		<0.1
2/9/2022					0.094 (J)				
2/10/2022								<0.1	
2/11/2022				<0.1					
8/30/2022	0.086 (J)				0.12				
8/31/2022			<0.1			0.065 (J)			0.05 (J)
9/1/2022		0.091 (J)		<0.1			<0.1	<0.1	
2/7/2023	0.095 (J)				0.12	0.076 (J)			
2/8/2023		0.11					<0.1	<0.1	<0.1
2/9/2023			<0.1	<0.1					
2/10/2023									
8/15/2023	0.065 (J)				0.081 (J)	<0.1			<0.1
8/16/2023		0.062 (J)	<0.1	<0.1			<0.1	<0.1	
2/20/2024	0.094 (J)				0.1	0.063 (J)			<0.1
2/21/2024			<0.1						
2/22/2024		0.091 (J)					<0.1	<0.1	
2/23/2024				<0.1					

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: pH (S.U.) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-5I (bg)	YGWA-30I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-3D (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 (D)								
2/16/2016	5.64								
6/1/2016		7.46	7.72	6.33					
6/2/2016					5.75	5.75	7.67	6.36	7.84
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016			7.74	6.21		5.82			
7/26/2016		7.43			5.72		7.66	6.22	7.88
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016		7.44		6.16					
9/14/2016			7.65		5.74		7.6	6.23	
9/15/2016									7.74
9/16/2016									
9/19/2016						5.78 (D)			
9/20/2016									
11/1/2016		7.24	7.7			5.62			7.75
11/2/2016							7.35	6.08	
11/3/2016									
11/4/2016				6.29	5.61				
11/8/2016									
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016	6.23								
12/15/2016									
1/10/2017									
1/11/2017		7.3	7.53						7.66
1/12/2017					5.71		7.49		
1/13/2017								6.19	
1/16/2017				6.29		5.72			
1/17/2017									
2/21/2017						5.67			
2/22/2017	6.21								
2/24/2017									

Prediction Limit

Constituent: pH (S.U.) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-5I (bg)	YGWA-30I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-3D (bg)
2/27/2017									
2/28/2017									
3/1/2017			7.42						
3/2/2017		7.23		6.28					7.68
3/3/2017									
3/6/2017								6.2	
3/7/2017					5.66		7.43		
3/8/2017									
3/9/2017									
4/26/2017			7.4			5.56			7.45
4/27/2017		6.99		6.09					
4/28/2017									
5/1/2017							7.22	6.21	
5/2/2017					5.65				
5/8/2017	6.12								
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017		6.87		6.21	5.7		7.32		
6/28/2017			7.5						7.65
6/29/2017								6.21	
6/30/2017						5.72			
7/7/2017									
7/10/2017									
7/11/2017									
7/13/2017									
7/17/2017	6.03								
9/22/2017									
9/29/2017									
10/3/2017		6.81		5.98	5.79		7.48		
10/4/2017			7.45			5.87			7.49
10/5/2017								6.16	
10/6/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017	6.12								
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018	6.13								
2/20/2018									
3/27/2018				6.25		5.83			
3/28/2018			7.74						7.91
3/29/2018		7.38			5.63		7.02	6.09	
3/30/2018									
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018		7.16							

Prediction Limit

Constituent: pH (S.U.) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-5I (bg)	YGWA-30I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-3D (bg)
6/6/2018				6.17			7.43		
6/7/2018					5.63			6.12	7.69
6/8/2018			7.64						
6/11/2018						5.69			
6/12/2018									
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018	6.01								
8/7/2018									
9/19/2018									
9/20/2018									
9/24/2018									
9/25/2018									
9/26/2018					5.63		7.13	5.84	
9/27/2018									
10/1/2018		6.8	7.47	5.9					7.39
10/2/2018						5.39			
2/25/2019	6.51								
2/26/2019						5.77			
2/27/2019		6.84	7.54	5.8					7.55
3/4/2019					5.75		7.46	6.18	
3/5/2019									
3/6/2019									
3/26/2019									
3/27/2019									
3/28/2019		6.99		6.15					
3/29/2019									
4/1/2019			7.74			5.62			7.87
4/2/2019									
4/3/2019					5.63		7.11	6.43	
4/4/2019									
6/12/2019	6.3								
8/19/2019	6.23								
8/20/2019									
8/21/2019									
8/22/2019									
9/24/2019		7.07		6.23	5.6		6.93		
9/25/2019			7.47			5.69		6.2	7.64
9/26/2019									
9/27/2019									
10/8/2019	6.28								
10/9/2019									
2/10/2020		7.2		6.1					
2/11/2020			7.09						
2/12/2020					5.83	5.8	7.52	6.15	7.83
3/17/2020	6.14								
3/18/2020				6.19					
3/19/2020		7.03	7.31			6			7.65
3/24/2020					5.81		7.34		
3/25/2020								6.26	
3/26/2020									

Prediction Limit

Constituent: pH (S.U.) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-5I (bg)	YGWA-30I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-3D (bg)
5/6/2020	6.24								
8/26/2020	5.67								
8/27/2020									
9/22/2020	5.78				5.99 (D)		7.19 (D)	5.8 (D)	
9/23/2020		7.15	7.37	6.01					7.57
9/24/2020						5.67			
9/25/2020									
10/7/2020									
2/8/2021					5.67				
2/9/2021								6.06	
2/10/2021			7.58						7.81
2/11/2021						5.73			
2/12/2021		7.14		6.21					
3/1/2021						5.78			
3/2/2021	5.42				5.63		7.15		
3/3/2021		7.2	8.23	5.38				6.21	8.39
3/4/2021									
8/19/2021		6.32		6.38					5.34
8/20/2021	5.86								
8/25/2021									
8/26/2021					5.51		7.16	5.82	
8/27/2021			7.39						
9/1/2021									
9/3/2021									
9/27/2021									
2/8/2022	5.83								
2/9/2022		7.12	7.66	6.24					7.97
2/10/2022					5.14		6.99		
2/11/2022						5.59		5.95	
8/30/2022	5.39	7.2			5		7.4		
8/31/2022			7.49	5.64		5.87		5.5	7.65
9/1/2022									
2/7/2023	5.94	7.86		6.53			6.64		
2/8/2023			7.73			6.43			7.88
2/9/2023					5.9			6.23	
2/10/2023									
8/15/2023	5.3	6.98		5.88	5.58		7.34	5.99	7.69
8/16/2023			7.39			5.55			
2/20/2024	6.07	7.06	7.59	6.42	5.78	5.81	7.56	6.21	7.81
2/21/2024									
2/22/2024									
2/23/2024									

Prediction Limit

Constituent: pH (S.U.) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-14S (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWC-23S	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-24SB	YGWA-47 (bg)
8/27/2008									
3/3/2009									
11/18/2009									
3/3/2010									
3/10/2011									
9/8/2011									
3/5/2012									
9/10/2012									
2/6/2013									
8/12/2013									
2/5/2014									
8/3/2015									
2/16/2016									
6/1/2016									
6/2/2016	5.46								
6/6/2016		5.71	6.17						
6/7/2016				5.77	5.57	5.62	6.1		
6/8/2016								5.65	
7/25/2016									
7/26/2016	5.45								
7/27/2016		5.46	6.14	5.79		5.59			
7/28/2016					5.6		6.12		
8/1/2016								5.47	
8/30/2016									5.75
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016									
9/14/2016									
9/15/2016	5.45								
9/16/2016						5.58			
9/19/2016		5.59	6.04	5.73			6.12		
9/20/2016					5.53			5.61	
11/1/2016									
11/2/2016	5.41			5.67					
11/3/2016		5.39	5.97			5.59	6.07		
11/4/2016									
11/8/2016					5.53			5.55	
11/14/2016									5.59
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017	5.37								
1/11/2017		5.48	6.05			5.59			
1/12/2017									
1/13/2017				5.79			6.41		
1/16/2017					5.59				
1/17/2017								5.53	
2/21/2017									
2/22/2017									
2/24/2017									5.49

Prediction Limit

Constituent: pH (S.U.) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-14S (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWC-23S	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-24SB	YGWA-47 (bg)
2/27/2017									
2/28/2017									
3/1/2017		5.41	5.94						
3/2/2017						5.54			
3/3/2017									
3/6/2017				5.63			6.34		
3/7/2017									
3/8/2017	5.41							5.62	
3/9/2017					5.56				
4/26/2017	5.02	5.4	5.99	5.66			6.32		
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017					5.61	5.47		5.46	
5/8/2017									5.58
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017									
6/28/2017		5.36	6						
6/29/2017				5.85		5.56	6.47		
6/30/2017	5.39								
7/7/2017								5.81	
7/10/2017					5.68				
7/11/2017									5.58
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017							6.56		
10/4/2017		5.32		5.83		5.57			
10/5/2017	5.49		6.11					5.45	
10/6/2017									
10/10/2017									5.49
10/11/2017					5.46				
10/12/2017									
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
3/27/2018	5.47								
3/28/2018		5.34	6.1			5.59			
3/29/2018				5.93			6.75		
3/30/2018					5.73			5.64	
4/2/2018									6.3 (O)
4/3/2018									
4/4/2018									
6/5/2018							6.09		

Prediction Limit

Constituent: pH (S.U.) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-14S (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWC-23S	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-24SB	YGWA-47 (bg)
6/6/2018				5.86					
6/7/2018			5.98						
6/8/2018	5.45								
6/11/2018		5.28				5.58			
6/12/2018					5.63			5.64	
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									5.48
9/20/2018									
9/24/2018									
9/25/2018		4.86	5.81	5.84		5.59	6.67		
9/26/2018								5.61	
9/27/2018					5.47				
10/1/2018	5.39								
10/2/2018									
2/25/2019									
2/26/2019	5.46								
2/27/2019									
3/4/2019									
3/5/2019		5.26		6.07		5.48	7.22	5.72	
3/6/2019			5.99		5.84				
3/26/2019									
3/27/2019									5.83
3/28/2019									
3/29/2019	5.34								
4/1/2019									
4/2/2019						5.74	6.94		
4/3/2019		5.47	6.29	5.71					
4/4/2019					5.64			5.66	
6/12/2019									
8/19/2019									
8/20/2019									5.58
8/21/2019									
8/22/2019									
9/24/2019							6.87		
9/25/2019	5.19			5.86		5.49			
9/26/2019		5.2	6.04					5.52	
9/27/2019					5.77				
10/8/2019									5.59
10/9/2019									
2/10/2020									
2/11/2020		5.3	6.07			5.58			
2/12/2020	5.48			6			7.13		
3/17/2020									5.57
3/18/2020	5.38								
3/19/2020									
3/24/2020		5.33	5.98	5.86		5.57	6.35		
3/25/2020									
3/26/2020					5.69			5.51	

Prediction Limit

Constituent: pH (S.U.) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-14S (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWC-23S	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-24SB	YGWA-47 (bg)
5/6/2020									
8/26/2020									
8/27/2020									4.88
9/22/2020									5.46
9/23/2020		5.29 (D)	6.01 (D)			5.58 (D)		5.64	
9/24/2020				5.8 (D)	5.51		6.7 (D)		
9/25/2020	5.44								
10/7/2020									
2/8/2021									
2/9/2021		5.43	6.12	5.86	5.61		6.95	5.69	
2/10/2021	5.35								
2/11/2021									
2/12/2021									
3/1/2021									5.48
3/2/2021	5.49								
3/3/2021		5.31	5.89	5.89		5.52		5.7	
3/4/2021					5.44		6.8		
8/19/2021	7.32								5.5
8/20/2021									
8/25/2021					5.46				
8/26/2021		4.4							
8/27/2021			5.4	5.57		5.27			
9/1/2021							6.65	5.22	
9/3/2021									
9/27/2021									
2/8/2022									5.4
2/9/2022		5.28	5.98	5.91		5.53	6.84		
2/10/2022	4.5				5.51			4.66	
2/11/2022									
8/30/2022		5.18	5.82			4.68	6.58		
8/31/2022	5.15			5.38					5.32
9/1/2022					5.27				
2/7/2023		5.03	6	5.63		5.47	6.82		
2/8/2023	5.39				5.33				5.22
2/9/2023									
2/10/2023								5.67	
8/15/2023	5.03	5.2	5.82	7		5.54	6.84		5.69
8/16/2023					5.36			5.89	
2/20/2024			6.11	5.99		5.64	6.78		5.62
2/21/2024					5.43				
2/22/2024									
2/23/2024	5.39	5.3						5.62	

Prediction Limit

Constituent: pH (S.U.) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-42	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-38	YGWC-41
8/27/2008									
3/3/2009									
11/18/2009									
3/3/2010									
3/10/2011									
9/8/2011									
3/5/2012									
9/10/2012									
2/6/2013									
8/12/2013									
2/5/2014									
8/3/2015									
2/16/2016									
6/1/2016									
6/2/2016									
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016									
7/26/2016									
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016	5.64								
8/31/2016		7.27							
9/1/2016			5.78						
9/2/2016				5.84					
9/13/2016					7.41				
9/14/2016									
9/15/2016									
9/16/2016									
9/19/2016									
9/20/2016									
11/1/2016									
11/2/2016									
11/3/2016									
11/4/2016					7.12				
11/8/2016									
11/14/2016				6.28					
11/15/2016			5.81						
11/16/2016	6.21	6.79							
11/28/2016									
12/15/2016					7.24				
1/10/2017									
1/11/2017									
1/12/2017									
1/13/2017									
1/16/2017					7.24				
1/17/2017									
2/21/2017									
2/22/2017									
2/24/2017		6.39							

Prediction Limit

Constituent: pH (S.U.) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-42	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-38	YGWC-41
2/27/2017	6.09		5.68						
2/28/2017				5.99					
3/1/2017									
3/2/2017									
3/3/2017					7.22				
3/6/2017									
3/7/2017									
3/8/2017									
3/9/2017									
4/26/2017									
4/27/2017									
4/28/2017					7.21				
5/1/2017									
5/2/2017									
5/8/2017									
5/9/2017			6.18	6.3					
5/10/2017	5.79	6.5							
5/26/2017					7.13				
6/27/2017									
6/28/2017					7.06				
6/29/2017									
6/30/2017									
7/7/2017									
7/10/2017									
7/11/2017	5.45	6.32							
7/13/2017			5.6	5.57					
7/17/2017									
9/22/2017				5.5					
9/29/2017				5.58					
10/3/2017					6.99				
10/4/2017									
10/5/2017									
10/6/2017				5.51					
10/10/2017									
10/11/2017			5.61	5.47		6.4			
10/12/2017	5.48	5.97					5.43	4.85	4.94
10/16/2017									
11/20/2017						6.33	5.1	4.87	
11/21/2017									4.69
1/10/2018							4.97		
1/11/2018						6.29			4.73
1/12/2018								4.78	
2/19/2018							5.6		4.96
2/20/2018						7.22		5.1	
3/27/2018									
3/28/2018					7.3				
3/29/2018									
3/30/2018				5.51					
4/2/2018									
4/3/2018						6.87	5.84	4.76	5.31
4/4/2018	5.93	6.41	5.98						
6/5/2018									

Prediction Limit

Constituent: pH (S.U.) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-42	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-38	YGWC-41
6/6/2018									
6/7/2018					7.29				
6/8/2018									
6/11/2018									
6/12/2018									
6/13/2018				5.5					
6/27/2018									4.78
6/28/2018						6.18	5.24	4.75	
8/6/2018									
8/7/2018						6.08	5.18	4.72	4.77
9/19/2018									
9/20/2018	5.63	5.69	5.67						
9/24/2018						5.81	5.14	4.67	4.78
9/25/2018									
9/26/2018				5.53					
9/27/2018									
10/1/2018					7.07				
10/2/2018									
2/25/2019									
2/26/2019									
2/27/2019					7.27				
3/4/2019									
3/5/2019									
3/6/2019				5.21					
3/26/2019							5.3		
3/27/2019	5.57					5.84		4.79	
3/28/2019		5.96	5.86						5
3/29/2019					7.06				
4/1/2019									
4/2/2019									
4/3/2019									
4/4/2019				5.74					
6/12/2019									
8/19/2019									
8/20/2019									
8/21/2019		5.84				5.96	5.26		
8/22/2019	5.61							4.81	4.89
9/24/2019					7.01				
9/25/2019									
9/26/2019			5.6	5.51					
9/27/2019									
10/8/2019									
10/9/2019	5.5	5.78				5.81	5.22	4.8	4.86
2/10/2020									
2/11/2020					7.38				
2/12/2020						5.97	5.3		
3/17/2020									
3/18/2020									
3/19/2020					7.22				
3/24/2020							5.29		
3/25/2020	5.53	5.79	5.69	5.49		5.78		4.89	4.87
3/26/2020									

Prediction Limit

Constituent: pH (S.U.) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-42	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-38	YGWC-41
5/6/2020									
8/26/2020									
8/27/2020									
9/22/2020									
9/23/2020					7.22				
9/24/2020	5.55		5.62			5.7 (D)	5.43 (D)		
9/25/2020		5.75						4.9	4.95
10/7/2020				5.86					
2/8/2021									
2/9/2021		5.86	5.79					5.04	
2/10/2021	5.65			6.31	7.29	5.8	5.19		4.98
2/11/2021									
2/12/2021									
3/1/2021									
3/2/2021									
3/3/2021					7.92				
3/4/2021	5.59	5.88	5.88	5.67		5.54	5.23	5.01	4.69
8/19/2021									
8/20/2021									
8/25/2021	6.73								
8/26/2021						6.91		4.54	6.77
8/27/2021					7.14				
9/1/2021			5.15						
9/3/2021				5.06			4.75		
9/27/2021		6.08							
2/8/2022		5.82 (D)	5.79 (D)			5.78	5.26		5.07 (D)
2/9/2022					5.89				
2/10/2022	5.57							4.85	
2/11/2022				5.58					
8/30/2022					7.04				
8/31/2022			5.34			5.3	4.53		
9/1/2022	5.49	5.62		5.18				4.91	4.43
2/7/2023					6.94	5.49			
2/8/2023	5.48	5.4					5.71	5.16	4.69
2/9/2023			5.61	5.67					
2/10/2023									
8/15/2023					6.96	5.78	5		
8/16/2023	5.53	5.58	5.04	5.36				4.83	5.01
2/20/2024					7.23	5.97	5.32		
2/21/2024			5.29						
2/22/2024	5.61	5.81						5.03	4.84
2/23/2024				5.2					

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-30I (bg)
6/1/2016	4.2	12	5						
6/2/2016				5.8	1.9	20	6.6	8	1.3
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016	3.7	8.4							1.2
7/26/2016			5.4	6.7	1.8	20	6.1	7.7	
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016	5.2		2.9						
9/14/2016		8.6			1.8	19		7.5	
9/15/2016				6			6.1		
9/16/2016									
9/19/2016									1.2
9/20/2016									
11/1/2016		8.9	3.9	4.9					1.3
11/2/2016						20	6.3	8.2	
11/3/2016									
11/4/2016	5				2				
11/8/2016									
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017							5.9		
1/11/2017		8.6	3.7	4.5					
1/12/2017					1.9	19			
1/13/2017								8.1	
1/16/2017	7.9								<1
1/17/2017									
2/21/2017									1.4
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017		9.3							
3/2/2017	7.4		4.6	4.4					
3/3/2017									
3/6/2017								8	
3/7/2017					2.1	20			
3/8/2017							7		
3/9/2017									
4/26/2017		11		5.1			7		1.4
4/27/2017	7.4		5.2						
4/28/2017									
5/1/2017						20		8.4	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-30I (bg)
5/2/2017					2				
5/8/2017									
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017	6.4		5.9		2.1	18			
6/28/2017		12		5.4					
6/29/2017								9.2	
6/30/2017							6.5		<1
7/7/2017									
7/10/2017									
7/11/2017									
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017	5.9		6.6		2.3	16			
10/4/2017		12		6.2					1.4
10/5/2017							7.9	9.6	
10/6/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018			6.4						
6/6/2018	4.4					8.3			
6/7/2018				6.7	2			8.5	
6/8/2018		9.6					6.4		
6/11/2018									1.1
6/12/2018									
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/20/2018									
9/24/2018									
9/25/2018									
9/26/2018					2.3	7.9		10.2	
9/27/2018									
10/1/2018	4	9.1	5.6	7.1			6.8		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-30I (bg)
10/2/2018									1
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019	4.3		8						
3/29/2019							7.3		
4/1/2019		8.5		7.2					0.96 (J)
4/2/2019									
4/3/2019					2.1	7		8.5	
4/4/2019									
6/12/2019									
9/24/2019	4.3		5.3		2.4	5.5			
9/25/2019		13.8		7			6.6	8.5	0.81 (J)
9/26/2019									
9/27/2019									
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020	5.3						8.1		
3/19/2020		12.9	10	9					1.6
3/24/2020					2.1	5.9			
3/25/2020								8.8	
3/26/2020									
9/22/2020					2.1	5.5		8.2	
9/23/2020	3.4	16.8	8.1	6.9					
9/24/2020									0.69 (J)
9/25/2020							6.1		
10/7/2020									
3/1/2021									0.88 (J)
3/2/2021					2.3	2.6	6		
3/3/2021	4.4	9.6	9	7				7.8	
3/4/2021									
8/19/2021	4.9		8.9	7.5			6.7		1
8/20/2021									
8/25/2021									
8/26/2021					2.4	6		8.5	
8/27/2021		18.2							
9/1/2021									
9/3/2021									
9/27/2021									
2/8/2022									
2/9/2022	5.1	16	9.3	7.2					
2/10/2022					2.4	4.9	6.2		
2/11/2022								7.7	2.8
8/30/2022			10.2		2.4	5.7			
8/31/2022	4.8	13.9		6.9			5.8	8	1.1
9/1/2022									
2/7/2023	6.6		10.6			5.2			
2/8/2023		14.7		7.5			6.1		0.96 (J)
2/9/2023					2.9			8.9	
2/10/2023									
8/15/2023	4.6		9.6	6.8	2.2	4.8	6	7.5	

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-30I (bg)
8/16/2023		20.3							0.9 (J)
2/20/2024	4.3	13.8	9.7	7	2.5	5.1		8.5	0.69 (J)
2/21/2024									
2/22/2024									
2/23/2024							7.1		

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWA-17S (bg)	YGWC-24SB	YGWA-47 (bg)	YGWC-42
6/1/2016									
6/2/2016									
6/6/2016	1.2	1.8							
6/7/2016			<1	5.2	56	4.4			
6/8/2016							<1		
7/25/2016									
7/26/2016									
7/27/2016	1.7	1.9	0.08 (J)			4.7			
7/28/2016				5.1	57				
8/1/2016							1.1		
8/30/2016								160	980
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016		1.7				4.8			
9/19/2016	1.8		0.08 (J)	4.8					
9/20/2016					68		0.38 (J)		
11/1/2016									
11/2/2016			0.1 (J)						
11/3/2016	0.69 (J)	1.9		5		5.3			
11/4/2016									
11/8/2016					79		0.39 (J)		
11/14/2016								150	
11/15/2016									
11/16/2016									940
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	<1	1.7				5.2			
1/12/2017									
1/13/2017			<1	4.3					
1/16/2017					72				
1/17/2017							<1		
2/21/2017									
2/22/2017									
2/24/2017								120	
2/27/2017									940
2/28/2017									
3/1/2017	1.8	<1							
3/2/2017						5			
3/3/2017									
3/6/2017			<1	4.5					
3/7/2017									
3/8/2017							0.29 (J)		
3/9/2017					69				
4/26/2017	1.6	1.9	<1	4.9					
4/27/2017									
4/28/2017									
5/1/2017									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWA-17S (bg)	YGWC-24SB	YGWA-47 (bg)	YGWC-42
5/2/2017					60	5	0.29 (J)		
5/8/2017								120	
5/9/2017									
5/10/2017									1200
5/26/2017									
6/27/2017									
6/28/2017	<1	<1							
6/29/2017			<1	5.5		5.2			
6/30/2017									
7/7/2017							0.37 (J)		
7/10/2017					57				
7/11/2017								110	1300
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017				5.8					
10/4/2017		1.7	<1			5.3			
10/5/2017	1.6						<1		
10/6/2017									
10/10/2017								93	
10/11/2017					52				
10/12/2017									1100
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018								88.8	
4/3/2018									
4/4/2018									1020
6/5/2018				6.1					
6/6/2018			0.049 (J)						
6/7/2018	0.68 (J)								
6/8/2018									
6/11/2018		0.95 (J)				5.2			
6/12/2018					41.4		0.35 (J)		
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018								75	
9/20/2018									810
9/24/2018									
9/25/2018	1	1.5	0.13 (J)	7		6.1			
9/26/2018							0.28 (J)		
9/27/2018					39.6				
10/1/2018									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWA-17S (bg)	YGWC-24SB	YGWA-47 (bg)	YGWC-42
10/2/2018									
2/25/2019									
3/26/2019									
3/27/2019								65.9	831
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019				3.8		5.1			
4/3/2019	0.82 (J)	1.3	0.12 (J)						
4/4/2019					27.9		0.29 (J)		
6/12/2019									
9/24/2019				1					
9/25/2019			<1			5.5			
9/26/2019	0.64 (J)	1					0.23 (J)		
9/27/2019					30.3				
10/8/2019								52.3	
10/9/2019									725
3/17/2020								71.6	
3/18/2020									
3/19/2020									
3/24/2020	<1	0.99 (J)	<1	3		5.4			
3/25/2020									642
3/26/2020					36.5		<1		
9/22/2020								51.5	
9/23/2020	0.53 (J)	1.1				5.1	<1		
9/24/2020			<1	3.6	52.5				579
9/25/2020									
10/7/2020									
3/1/2021								51.6	
3/2/2021									
3/3/2021	<1	1	<1			5.2	<1		
3/4/2021				4.5	61.7 (M1)				537
8/19/2021								52.6	
8/20/2021									
8/25/2021					68				500
8/26/2021		1.2							
8/27/2021	0.59 (J)		<1			5.3			
9/1/2021				5			<1		
9/3/2021									
9/27/2021									
2/8/2022								50.9	
2/9/2022	0.51 (J)	1.1	<1	3.9		4.8			
2/10/2022					78.7		<1		485
2/11/2022									
8/30/2022	0.78 (J)	1.3		3.2		4.7			
8/31/2022			<1					48	
9/1/2022					79				502
2/7/2023	0.78 (J)	1.2	<1	3.8		4.9			
2/8/2023					78			50.5	494
2/9/2023									
2/10/2023							0.5 (J)		
8/15/2023	0.51 (J)	0.88 (J)	<1	4.1		4.6		47.7	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-23S	YGWA-17S (bg)	YGWC-24SB	YGWA-47 (bg)	YGWC-42
8/16/2023					69.3		<1		451
2/20/2024	<1		<1	3.8		4.6		51	
2/21/2024					81				
2/22/2024									487
2/23/2024		0.79 (J)					<1		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWC-41	YGWA-40 (bg)
6/1/2016									
6/2/2016									
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016									
7/26/2016									
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016	29	34							
9/1/2016			95						
9/2/2016				72					
9/13/2016									
9/14/2016					9.4				
9/15/2016									
9/16/2016									
9/19/2016									
9/20/2016									
11/1/2016									
11/2/2016									
11/3/2016									
11/4/2016					13				
11/8/2016									
11/14/2016				110					
11/15/2016			94						
11/16/2016		240							
11/28/2016	36								
12/15/2016					1.8				
1/10/2017									
1/11/2017									
1/12/2017									
1/13/2017									
1/16/2017					11				
1/17/2017									
2/21/2017									
2/22/2017	43								
2/24/2017		89							
2/27/2017			84						
2/28/2017				110					
3/1/2017									
3/2/2017									
3/3/2017					8.8				
3/6/2017									
3/7/2017									
3/8/2017									
3/9/2017									
4/26/2017									
4/27/2017									
4/28/2017					10				
5/1/2017									

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWC-41	YGWA-40 (bg)
5/2/2017									
5/8/2017	60								
5/9/2017			91	130					
5/10/2017		100							
5/26/2017					12				
6/27/2017									
6/28/2017					11				
6/29/2017									
6/30/2017									
7/7/2017									
7/10/2017									
7/11/2017		110							
7/13/2017			88	140					
7/17/2017	63								
9/22/2017				160					
9/29/2017				160					
10/3/2017					7.9				
10/4/2017									
10/5/2017									
10/6/2017				160					
10/10/2017									
10/11/2017			86	150		20			
10/12/2017		120					940	400	17
10/16/2017	62								
11/20/2017						24	980		71
11/21/2017								430	
1/10/2018									66
1/11/2018						23		390	
1/12/2018							880		
2/19/2018	64.6							414	57.2
2/20/2018						20.6	905		
4/2/2018									
4/3/2018						24.5	872	406	49.4
4/4/2018		160	76.5						
6/5/2018									
6/6/2018									
6/7/2018					8.8				
6/8/2018									
6/11/2018									
6/12/2018									
6/13/2018				144					
6/27/2018								357	
6/28/2018						22	869		43.8
8/6/2018	42.1								
8/7/2018						20.7	879	346	40.5
9/19/2018									
9/20/2018		247	84.1						
9/24/2018						21.2	872	358	39.7
9/25/2018									
9/26/2018				160					
9/27/2018									
10/1/2018					9.1				

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWC-41	YGWA-40 (bg)
10/2/2018									
2/25/2019	42.1								
3/26/2019									34.3
3/27/2019						17.7	851		
3/28/2019		181	82.8					258	
3/29/2019					9				
4/1/2019									
4/2/2019									
4/3/2019									
4/4/2019				119					
6/12/2019	83.4								
9/24/2019					9.1				
9/25/2019									
9/26/2019			80	84.8					
9/27/2019									
10/8/2019	128								
10/9/2019		279				15	708	263	27.9
3/17/2020	98.6								
3/18/2020									
3/19/2020					12.4				
3/24/2020									25.2
3/25/2020		164	76.1	58.8		14.3	483	214	
3/26/2020									
9/22/2020	145								
9/23/2020					11.8				
9/24/2020			77			11.7			22.9
9/25/2020		281					414	175	
10/7/2020				18.2					
3/1/2021									
3/2/2021	156								
3/3/2021					10.6				
3/4/2021		328	75.1	6.3		12	356	117	21.5
8/19/2021									
8/20/2021	121								
8/25/2021									
8/26/2021						19.2	328	117	
8/27/2021					16.7				
9/1/2021			79.8						
9/3/2021				13.8					21.3
9/27/2021		56.5							
2/8/2022	107	133	73.9			14.6		109	17.9
2/9/2022					18				
2/10/2022							290		
2/11/2022				16.4					
8/30/2022	101				20.1				
8/31/2022			71			10.9			17.9
9/1/2022		169		28.2			282	117	
2/7/2023	82.4				17.8	9.7			
2/8/2023		164					251	119	17.5
2/9/2023			71.1	50.8					
2/10/2023									
8/15/2023	74.2				17.2	7.6			16.4

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWC-41	YGWA-40 (bg)
8/16/2023		151	63.8	93.9			227	104	
2/20/2024	75				23.1	8.6			17.2
2/21/2024			65.4						
2/22/2024		147					210	109	
2/23/2024				156					

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/1/2016	120	54	150						
6/2/2016				66	160	46	96	36	130
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016		48	135					50	
7/26/2016	94			78	177	54	92		141
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016	105	67							
9/14/2016			127	73	187		102		
9/15/2016						54			153
9/16/2016									
9/19/2016								35	
9/20/2016									
11/1/2016	44		75					<25	92
11/2/2016					181	71	115		
11/3/2016									
11/4/2016		60		75					
11/8/2016									
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017						45			
1/11/2017	107		148						159
1/12/2017				86	202				
1/13/2017							67		
1/16/2017		65						47	
1/17/2017									
2/21/2017								<25	
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017			182						
3/2/2017	98	61							117
3/3/2017									
3/6/2017							159		
3/7/2017				108	257				
3/8/2017						178			
3/9/2017									
4/26/2017			92			52		55	181
4/27/2017	116	31							
4/28/2017									
5/1/2017					165		107		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/2/2017				103					
5/8/2017									
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017	89	42		73	189				
6/28/2017			126						169
6/29/2017							79		
6/30/2017						45		42	
7/7/2017									
7/10/2017									
7/11/2017									
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017	119	58		89	170				
10/4/2017			147					31	141
10/5/2017						40	95		
10/6/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018	127								
6/6/2018		96			151				
6/7/2018				142			90		95
6/8/2018			158			114			
6/11/2018								59	
6/12/2018									
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/20/2018									
9/24/2018									
9/25/2018									
9/26/2018				86	144		116		
9/27/2018									
10/1/2018	117	60	138			50			165

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
10/2/2018								57	
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019	87	87							
3/29/2019						63			
4/1/2019			19 (J)					54	149
4/2/2019									
4/3/2019				83	142		111		
4/4/2019									
6/12/2019									
9/24/2019	124	54		79	129				
9/25/2019			159			64	117	51	157
9/26/2019									
9/27/2019									
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020		35				57			
3/19/2020	116		148					47	146
3/24/2020				68	139				
3/25/2020							146		
3/26/2020									
9/22/2020				75	104		83		
9/23/2020	108	15	155						157
9/24/2020								51	
9/25/2020						54			
10/7/2020									
3/1/2021								23	
3/2/2021				67	52	67			
3/3/2021	99	39	111				80		137
3/4/2021									
8/19/2021	105	44				54		50	144
8/20/2021									
8/25/2021									
8/26/2021				86	123		93		
8/27/2021			155						
9/1/2021									
9/3/2021									
9/27/2021									
2/8/2022									
2/9/2022	105	57	145						154
2/10/2022				77	127	56			
2/11/2022							102	66	
8/30/2022	116			86	148				
8/31/2022		46	137			51	92	33	141
9/1/2022									
2/7/2023	131	121			180				
2/8/2023			145			56		43	144
2/9/2023				59			124		
2/10/2023									
8/15/2023	121	65		76	219	69	99		231

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
8/16/2023			148					48	
2/20/2024	130	59	220	137	639 (o)		140	55	294
2/21/2024									
2/22/2024									
2/23/2024						64			

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWC-23S	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-24SB	YGWA-47 (bg)	YGWC-42
6/1/2016									
6/2/2016									
6/6/2016	58	120							
6/7/2016			28	130	38	60			
6/8/2016							66		
7/25/2016									
7/26/2016									
7/27/2016	35	94	74		74				
7/28/2016				119		81			
8/1/2016							56		
8/30/2016								319	1650
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016	35		67						
9/19/2016		92			45	68			
9/20/2016				132			53		
11/1/2016									
11/2/2016					53				
11/3/2016	48	104	41			61			
11/4/2016									
11/8/2016				146			58		
11/14/2016								280	
11/15/2016									
11/16/2016									1420
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	95	133	104						
1/12/2017									
1/13/2017					46	76			
1/16/2017				194					
1/17/2017							56		
2/21/2017									
2/22/2017									
2/24/2017								162	
2/27/2017									1640
2/28/2017									
3/1/2017	79	119							
3/2/2017			77						
3/3/2017									
3/6/2017					164	167			
3/7/2017									
3/8/2017							192		
3/9/2017				288					
4/26/2017	36	162			34	50			
4/27/2017									
4/28/2017									
5/1/2017									

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWC-23S	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-24SB	YGWA-47 (bg)	YGWC-42
5/2/2017			142	221			113		
5/8/2017								194	
5/9/2017									
5/10/2017									1630
5/26/2017									
6/27/2017									
6/28/2017	45	98							
6/29/2017			53		68	94			
6/30/2017									
7/7/2017							46		
7/10/2017				123					
7/11/2017								193	1800
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017						149			
10/4/2017	45		61		54				
10/5/2017		104					48		
10/6/2017									
10/10/2017								175	
10/11/2017				100					
10/12/2017									1600
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018								192	
4/3/2018									
4/4/2018									1520
6/5/2018						109			
6/6/2018					79				
6/7/2018		68							
6/8/2018									
6/11/2018	74		70						
6/12/2018				115			79		
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018								186	
9/20/2018									1240
9/24/2018									
9/25/2018	63	109	86		73	122			
9/26/2018							59		
9/27/2018				105					
10/1/2018									

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWC-23S	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-24SB	YGWA-47 (bg)	YGWC-42
10/2/2018									
2/25/2019									
3/26/2019									
3/27/2019								170	1100
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019			72			134			
4/3/2019	63	89			57				
4/4/2019				85			63		
6/12/2019									
9/24/2019						157			
9/25/2019			81		75				
9/26/2019	72	126					81		
9/27/2019				96					
10/8/2019								172	
10/9/2019									1170
3/17/2020								165	
3/18/2020									
3/19/2020									
3/24/2020	59	91	71		76	117			
3/25/2020									1200
3/26/2020				110			67		
9/22/2020								141	
9/23/2020	81	103	99				87		
9/24/2020				129	69	113			1060
9/25/2020									
10/7/2020									
3/1/2021								145	
3/2/2021									
3/3/2021	37	95	57		53		70		
3/4/2021				96		110			501
8/19/2021								134	
8/20/2021									
8/25/2021				141					886
8/26/2021	31								
8/27/2021		112	93		67				
9/1/2021						137	96		
9/3/2021									
9/27/2021									
2/8/2022								151	
2/9/2022	60	103	81		72	131			
2/10/2022				180			78		882
2/11/2022									
8/30/2022	52	100	81			122			
8/31/2022					62			116	
9/1/2022				191					934
2/7/2023	55	96	78		89	163			
2/8/2023				158				141	853
2/9/2023									
2/10/2023							66		
8/15/2023	81	96	74		62	126		186	

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWC-23S	YGWA-20S (bg)	YGWA-21I (bg)	YGWC-24SB	YGWA-47 (bg)	YGWC-42
8/16/2023				170			68		904
2/20/2024		129	77		164	156		159	
2/21/2024				192					
2/22/2024									881
2/23/2024	52						75		

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-41	YGWC-38	YGWA-40 (bg)
6/1/2016									
6/2/2016									
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016									
7/26/2016									
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016	80	209							
9/1/2016			228						
9/2/2016				243					
9/13/2016									
9/14/2016					152				
9/15/2016									
9/16/2016									
9/19/2016									
9/20/2016									
11/1/2016									
11/2/2016									
11/3/2016									
11/4/2016					148				
11/8/2016									
11/14/2016				272					
11/15/2016			211						
11/16/2016	112								
11/28/2016		102							
12/15/2016					191				
1/10/2017									
1/11/2017									
1/12/2017									
1/13/2017									
1/16/2017					180				
1/17/2017									
2/21/2017									
2/22/2017		164							
2/24/2017	147								
2/27/2017			382						
2/28/2017				306					
3/1/2017									
3/2/2017									
3/3/2017					156				
3/6/2017									
3/7/2017									
3/8/2017									
3/9/2017									
4/26/2017									
4/27/2017									
4/28/2017					130				
5/1/2017									

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-41	YGWC-38	YGWA-40 (bg)
5/2/2017									
5/8/2017		145							
5/9/2017			154	303					
5/10/2017	203								
5/26/2017					223				
6/27/2017									
6/28/2017					166				
6/29/2017									
6/30/2017									
7/7/2017									
7/10/2017									
7/11/2017	238								
7/13/2017			192	282					
7/17/2017		185							
9/22/2017				309					
9/29/2017				273					
10/3/2017					153				
10/4/2017									
10/5/2017									
10/6/2017				287					
10/10/2017									
10/11/2017			177	264		68			
10/12/2017	287						636	1360	74
10/16/2017		218							
11/20/2017						139		1390	179
11/21/2017							706		
1/10/2018									140
1/11/2018						153	701		
1/12/2018								1400	
2/19/2018		173					630		119
2/20/2018						87		1300	
4/2/2018									
4/3/2018						85	660	1390	106
4/4/2018	292		174						
6/5/2018									
6/6/2018									
6/7/2018					146				
6/8/2018									
6/11/2018									
6/12/2018									
6/13/2018				292					
6/27/2018							575		
6/28/2018						88		1310	112
8/6/2018		158							
8/7/2018						89	574	1340	103
9/19/2018									
9/20/2018	434		186						
9/24/2018						82	588	1400	107
9/25/2018									
9/26/2018				277					
9/27/2018									
10/1/2018					155				

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-41	YGWC-38	YGWA-40 (bg)
10/2/2018									
2/25/2019		92							
3/26/2019									90
3/27/2019						75		1190	
3/28/2019	323		164				372		
3/29/2019					150				
4/1/2019									
4/2/2019									
4/3/2019									
4/4/2019				240					
6/12/2019		226							
9/24/2019					146				
9/25/2019									
9/26/2019			192	198					
9/27/2019									
10/8/2019		276							
10/9/2019	501					119	440	1100	98
3/17/2020		185							
3/18/2020									
3/19/2020					148				
3/24/2020									84
3/25/2020	352		130	164		158	428	883	
3/26/2020									
9/22/2020		281							
9/23/2020					161				
9/24/2020			187			170			77
9/25/2020	494						307	664	
10/7/2020				137					
3/1/2021									
3/2/2021		296							
3/3/2021					138				
3/4/2021	592		145	69		168	224	600	57
8/19/2021									
8/20/2021		254							
8/25/2021									
8/26/2021						249	225	562	
8/27/2021					150				
9/1/2021			163						
9/3/2021				89					88
9/27/2021	158								
2/8/2022	294	283	164			248	226		93
2/9/2022					156				
2/10/2022								541	
2/11/2022				81					
8/30/2022		244			153				
8/31/2022			207			242			92
9/1/2022	366			108			205	499	
2/7/2023		207			159	224			
2/8/2023	333						257	579	115
2/9/2023			145	116					
2/10/2023									
8/15/2023		230			157	225			83

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/26/2024 4:14 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-41	YGWC-38	YGWA-40 (bg)
8/16/2023	356		159	234			266	460	
2/20/2024		214			159	233			109
2/21/2024			173						
2/22/2024	313						224	403	
2/23/2024				308					

FIGURE E.

Appendix III Trend Tests Summary - Significant Results

Plant Yates Data: Plant Yates AMA-R6 Printed 4/25/2024, 2:42 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	YGWA-39 (bg)	0.01889	102	74	Yes	19	5.263	n/a	0.01	NP
Boron (mg/L)	YGWA-40 (bg)	-0.01292	-120	-74	Yes	19	0	n/a	0.01	NP
Boron (mg/L)	YGWC-38	-3.201	-148	-74	Yes	19	0	n/a	0.01	NP
Boron (mg/L)	YGWC-41	-1.87	-125	-74	Yes	19	0	n/a	0.01	NP
Boron (mg/L)	YGWC-42	-1.378	-107	-74	Yes	19	0	n/a	0.01	NP
Boron (mg/L)	YGWC-43	0.336	102	74	Yes	19	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-17S (bg)	0.1377	164	92	Yes	22	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-18S (bg)	-0.07238	-162	-92	Yes	22	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-39 (bg)	2.328	102	74	Yes	19	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-5D (bg)	-1.196	-111	-92	Yes	22	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-5I (bg)	0.06518	123	92	Yes	22	0	n/a	0.01	NP
Calcium (mg/L)	YGWC-38	-25.9	-157	-74	Yes	19	0	n/a	0.01	NP
Calcium (mg/L)	YGWC-42	-10.55	-127	-74	Yes	19	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-47 (bg)	-0.9549	-125	-74	Yes	19	5.263	n/a	0.01	NP
Calcium (mg/L)	GWA-2 (bg)	2.258	92	81	Yes	20	5	n/a	0.01	NP
Calcium (mg/L)	YGWA-1D (bg)	0.4653	113	92	Yes	22	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-1I (bg)	-0.07812	-113	-92	Yes	22	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-3I (bg)	0.5046	97	92	Yes	22	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18I (bg)	-0.09642	-108	-92	Yes	22	22.73	n/a	0.01	NP
Sulfate (mg/L)	YGWA-39 (bg)	-2.507	-123	-74	Yes	19	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-40 (bg)	-6.44	-134	-74	Yes	19	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5D (bg)	-2.263	-177	-92	Yes	22	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5I (bg)	0.08367	157	92	Yes	22	0	n/a	0.01	NP
Sulfate (mg/L)	YGWC-38	-129.7	-160	-74	Yes	19	0	n/a	0.01	NP
Sulfate (mg/L)	YGWC-42	-91.8	-132	-74	Yes	19	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-47 (bg)	-12.07	-148	-74	Yes	19	0	n/a	0.01	NP
Sulfate (mg/L)	GWA-2 (bg)	9.755	89	81	Yes	20	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-1D (bg)	0.8436	169	92	Yes	22	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-2I (bg)	1.363	112	92	Yes	22	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3D (bg)	0.2459	112	92	Yes	22	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3I (bg)	0.9523	127	92	Yes	22	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-21I (bg)	9.947	106	92	Yes	22	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-39 (bg)	26.07	97	74	Yes	19	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-38	-168	-135	-74	Yes	19	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-42	-119	-125	-74	Yes	19	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-47 (bg)	-10.5	-101	-74	Yes	19	0	n/a	0.01	NP

Appendix III Trend Tests Summary - All Results

Plant Yates Data: Plant Yates AMA-R6 Printed 4/25/2024, 2:42 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	YGWA-17S (bg)	0.0005659	73	92	No	22	18.18	n/a	0.01	NP
Boron (mg/L)	YGWA-18I (bg)	0	-10	-92	No	22	81.82	n/a	0.01	NP
Boron (mg/L)	YGWA-18S (bg)	0.0008073	63	92	No	22	27.27	n/a	0.01	NP
Boron (mg/L)	YGWA-20S (bg)	0	-3	-92	No	22	90.91	n/a	0.01	NP
Boron (mg/L)	YGWA-21I (bg)	0	-21	-92	No	22	59.09	n/a	0.01	NP
Boron (mg/L)	**YGWA-39 (bg)**	**0.01889**	**102**	**74**	**Yes**	**19**	**5.263**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWA-40 (bg)**	**-0.01292**	**-120**	**-74**	**Yes**	**19**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWA-4I (bg)	0	19	92	No	22	72.73	n/a	0.01	NP
Boron (mg/L)	YGWA-5D (bg)	0.000669	82	92	No	22	22.73	n/a	0.01	NP
Boron (mg/L)	YGWA-5I (bg)	0	-4	-92	No	22	68.18	n/a	0.01	NP
Boron (mg/L)	YGWC-23S	0.01599	23	92	No	22	0	n/a	0.01	NP
Boron (mg/L)	**YGWC-38**	**-3.201**	**-148**	**-74**	**Yes**	**19**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWC-41**	**-1.87**	**-125**	**-74**	**Yes**	**19**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWC-42**	**-1.378**	**-107**	**-74**	**Yes**	**19**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWC-43**	**0.336**	**102**	**74**	**Yes**	**19**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWA-47 (bg)	-0.0003761	-34	-74	No	19	5.263	n/a	0.01	NP
Boron (mg/L)	GWA-2 (bg)	0	26	81	No	20	65	n/a	0.01	NP
Boron (mg/L)	YGWA-14S (bg)	-0.0002056	-33	-92	No	22	9.091	n/a	0.01	NP
Boron (mg/L)	YGWA-1D (bg)	0.001069	59	92	No	22	40.91	n/a	0.01	NP
Boron (mg/L)	YGWA-1I (bg)	0	-22	-92	No	22	68.18	n/a	0.01	NP
Boron (mg/L)	YGWA-2I (bg)	0	6	92	No	22	81.82	n/a	0.01	NP
Boron (mg/L)	YGWA-30I (bg)	0	-10	-92	No	22	86.36	n/a	0.01	NP
Boron (mg/L)	YGWA-3D (bg)	0	24	92	No	22	63.64	n/a	0.01	NP
Boron (mg/L)	YGWA-3I (bg)	0	-11	-92	No	22	90.91	n/a	0.01	NP
Calcium (mg/L)	**YGWA-17S (bg)**	**0.1377**	**164**	**92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-18I (bg)	0.05778	56	92	No	22	0	n/a	0.01	NP
Calcium (mg/L)	**YGWA-18S (bg)**	**-0.07238**	**-162**	**-92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-20S (bg)	0.02359	56	92	No	22	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-21I (bg)	0.5776	91	92	No	22	0	n/a	0.01	NP
Calcium (mg/L)	**YGWA-39 (bg)**	**2.328**	**102**	**74**	**Yes**	**19**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-40 (bg)	-0.2139	-53	-74	No	19	5.263	n/a	0.01	NP
Calcium (mg/L)	YGWA-4I (bg)	0.08588	29	92	No	22	0	n/a	0.01	NP
Calcium (mg/L)	**YGWA-5D (bg)**	**-1.196**	**-111**	**-92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-5I (bg)**	**0.06518**	**123**	**92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWC-38**	**-25.9**	**-157**	**-74**	**Yes**	**19**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWC-42**	**-10.55**	**-127**	**-74**	**Yes**	**19**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-47 (bg)**	**-0.9549**	**-125**	**-74**	**Yes**	**19**	**5.263**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GWA-2 (bg)**	**2.258**	**92**	**81**	**Yes**	**20**	**5**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-14S (bg)	0.0116	39	92	No	22	0	n/a	0.01	NP
Calcium (mg/L)	**YGWA-1D (bg)**	**0.4653**	**113**	**92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-1I (bg)**	**-0.07812**	**-113**	**-92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-2I (bg)	0.09102	20	92	No	22	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-30I (bg)	0.02373	76	92	No	22	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-3D (bg)	0.2967	67	92	No	22	0	n/a	0.01	NP
Calcium (mg/L)	**YGWA-3I (bg)**	**0.5046**	**97**	**92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-17S (bg)	0	-13	-92	No	22	0	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-18I (bg)**	**-0.09642**	**-108**	**-92**	**Yes**	**22**	**22.73**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-18S (bg)	-0.1174	-88	-92	No	22	9.091	n/a	0.01	NP
Sulfate (mg/L)	YGWA-20S (bg)	0	60	92	No	22	72.73	n/a	0.01	NP
Sulfate (mg/L)	YGWA-21I (bg)	-0.1893	-72	-92	No	22	0	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-39 (bg)**	**-2.507**	**-123**	**-74**	**Yes**	**19**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-40 (bg)**	**-6.44**	**-134**	**-74**	**Yes**	**19**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-4I (bg)	0.02708	23	92	No	22	0	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-5D (bg)**	**-2.263**	**-177**	**-92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-5I (bg)**	**0.08367**	**157**	**92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**

Appendix III Trend Tests Summary - All Results

Plant Yates Data: Plant Yates AMA-R6 Printed 4/25/2024, 2:42 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Sulfate (mg/L)	**YGWC-38**	**-129.7**	**-160**	**-74**	**Yes**	**19**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWC-42**	**-91.8**	**-132**	**-74**	**Yes**	**19**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-47 (bg)**	**-12.07**	**-148**	**-74**	**Yes**	**19**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GWA-2 (bg)**	**9.755**	**89**	**81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-14S (bg)	-0.01773	-14	-92	No	22	0	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-1D (bg)**	**0.8436**	**169**	**92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-1I (bg)	-0.07684	-24	-92	No	22	0	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-2I (bg)**	**1.363**	**112**	**92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-30I (bg)	-0.04247	-53	-92	No	22	9.091	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-3D (bg)**	**0.2459**	**112**	**92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-3I (bg)**	**0.9523**	**127**	**92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	YGWA-17S (bg)	1.719	48	92	No	22	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-18I (bg)	-0.3561	-16	-92	No	22	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-18S (bg)	0.5607	22	92	No	22	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-20S (bg)	3.337	68	92	No	22	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**YGWA-21I (bg)**	**9.947**	**106**	**92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**YGWA-39 (bg)**	**26.07**	**97**	**74**	**Yes**	**19**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	YGWA-40 (bg)	-5.069	-51	-74	No	19	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-4I (bg)	1.734	31	92	No	22	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-5D (bg)	-9.186	-72	-87	No	21	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-5I (bg)	0	-1	-92	No	22	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**YGWC-38**	**-168**	**-135**	**-74**	**Yes**	**19**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**YGWC-42**	**-119**	**-125**	**-74**	**Yes**	**19**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**YGWA-47 (bg)**	**-10.5**	**-101**	**-74**	**Yes**	**19**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	GWA-2 (bg)	12.15	73	81	No	20	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-14S (bg)	1.064	40	92	No	22	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-1D (bg)	2.531	65	92	No	22	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-1I (bg)	-0.137	-4	-92	No	22	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-2I (bg)	0	-1	-92	No	22	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-30I (bg)	1.487	40	92	No	22	9.091	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-3D (bg)	3.842	48	92	No	22	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-3I (bg)	2.051	36	92	No	22	0	n/a	0.01	NP

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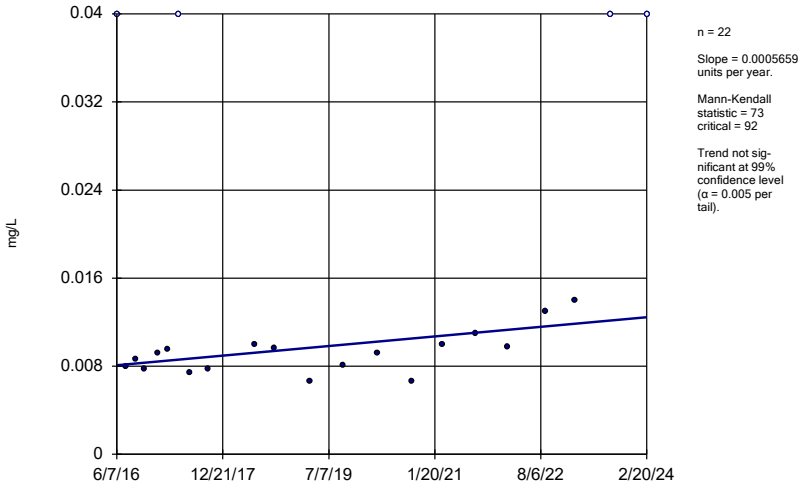
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-17S (bg)



n = 22

Slope = 0.0005659 units per year.

Mann-Kendall statistic = 73 critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/25/2024 2:40 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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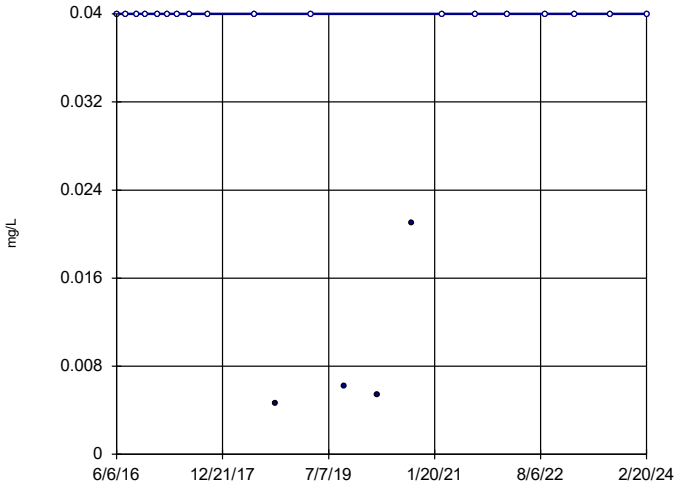
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18I (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = -10 critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/25/2024 2:40 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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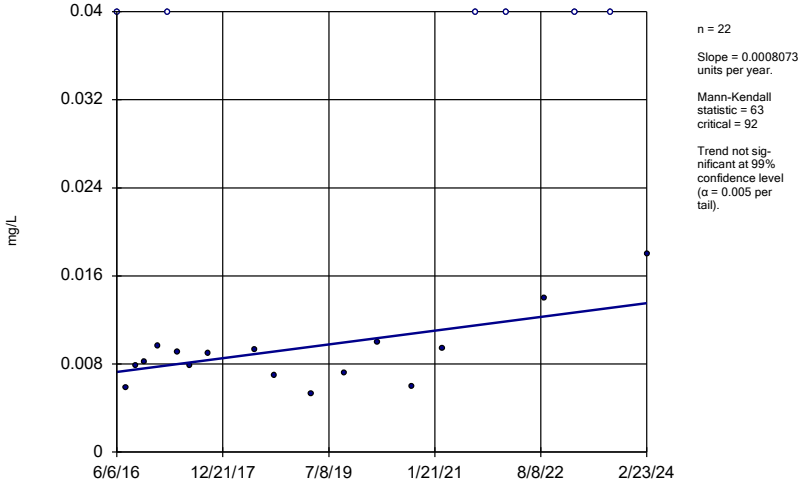
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18S (bg)



n = 22

Slope = 0.0008073 units per year.

Mann-Kendall statistic = 63 critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/25/2024 2:40 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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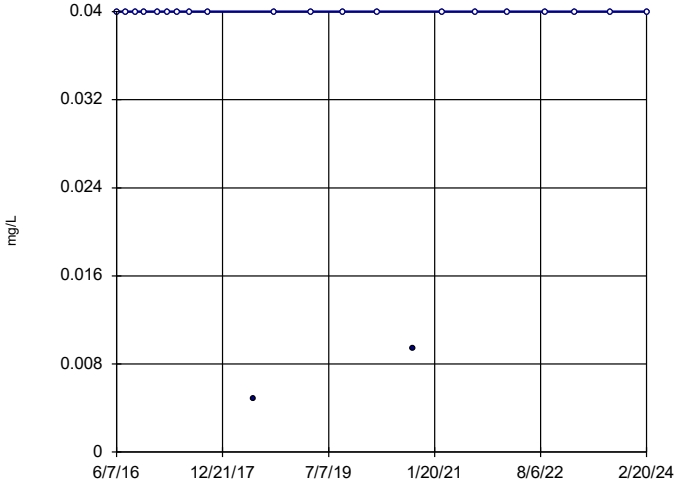
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-20S (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = -3 critical = -92

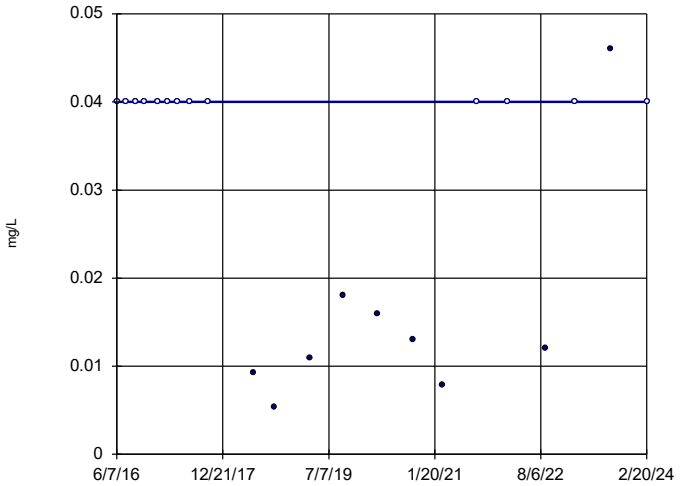
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/25/2024 2:40 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-21I (bg)



n = 22

Slope = 0
units per year.

Mann-Kendall
statistic = -21
critical = -92

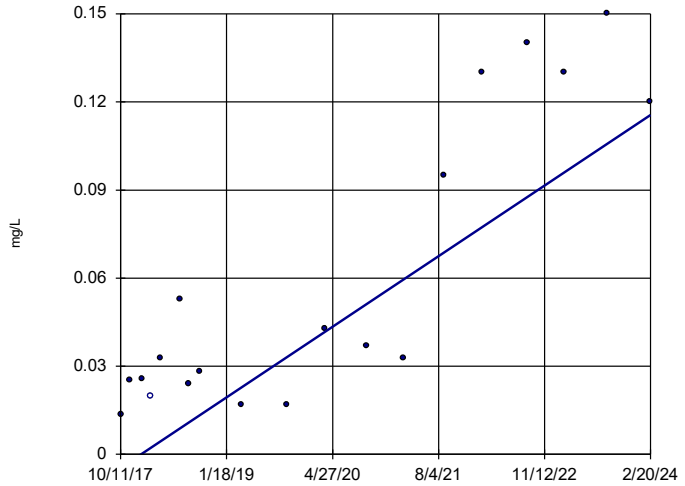
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Boron Analysis Run 4/25/2024 2:40 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-39 (bg)



n = 19

Slope = 0.01889
units per year.

Mann-Kendall
statistic = 102
critical = 74

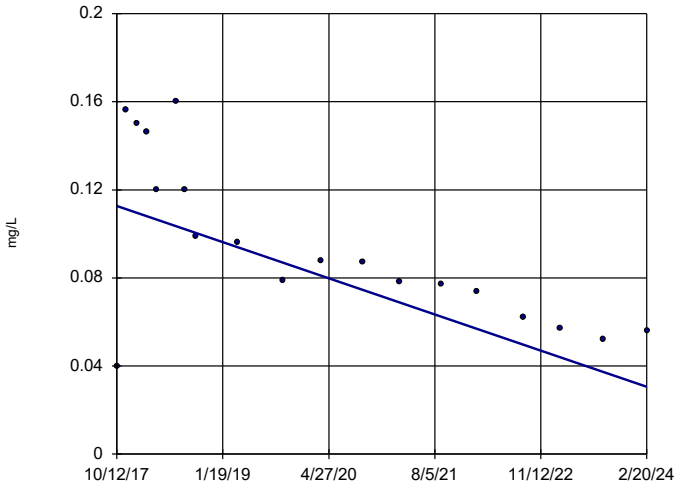
Increasing trend
significant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Boron Analysis Run 4/25/2024 2:40 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG

Sen's Slope Estimator

YGWA-40 (bg)



n = 19

Slope = -0.01292
units per year.

Mann-Kendall
statistic = -120
critical = -74

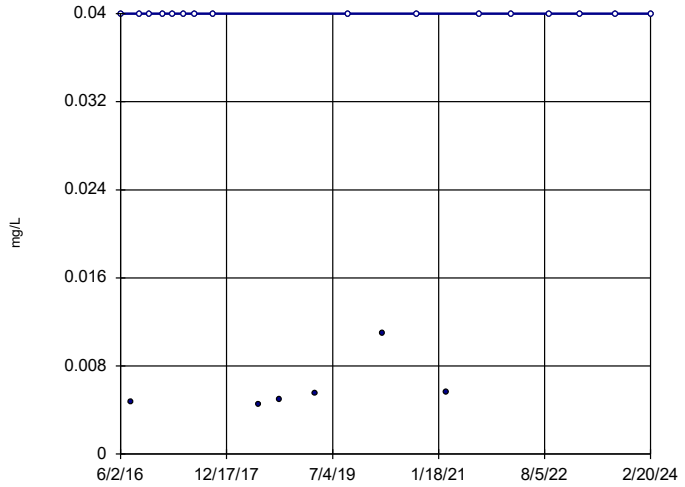
Decreasing trend
significant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Boron Analysis Run 4/25/2024 2:40 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-4I (bg)



n = 22

Slope = 0
units per year.

Mann-Kendall
statistic = 19
critical = 92

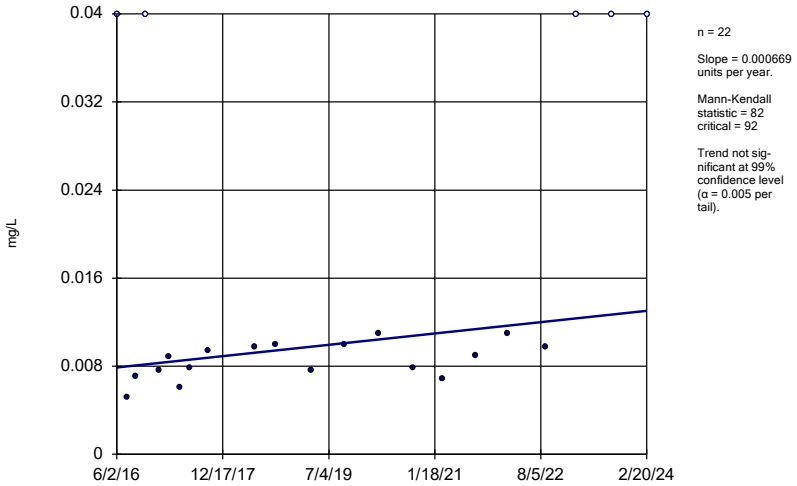
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Boron Analysis Run 4/25/2024 2:40 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5D (bg)



n = 22

Slope = 0.000669 units per year.

Mann-Kendall statistic = 82
critical = 92

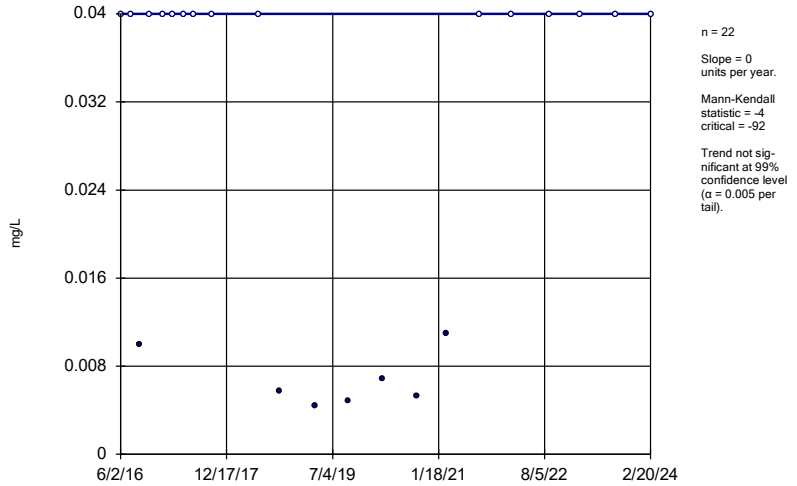
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/25/2024 2:40 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5I (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = -4
critical = -92

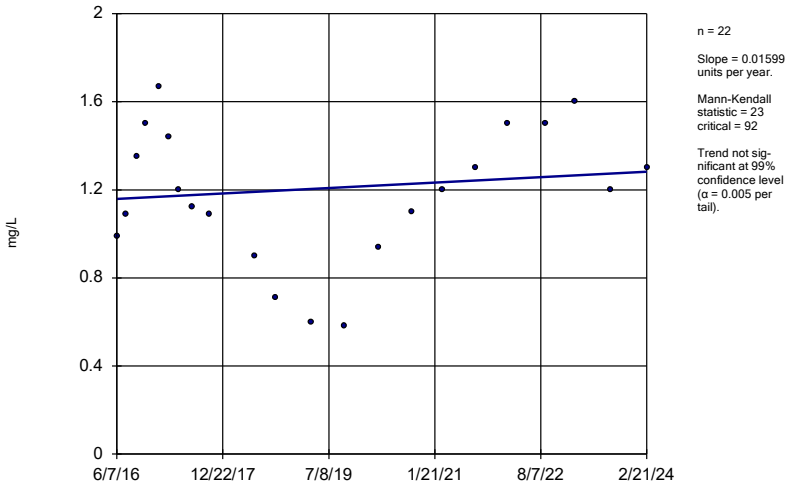
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/25/2024 2:40 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG

Sen's Slope Estimator

YGWC-23S



n = 22

Slope = 0.01599 units per year.

Mann-Kendall statistic = 23
critical = 92

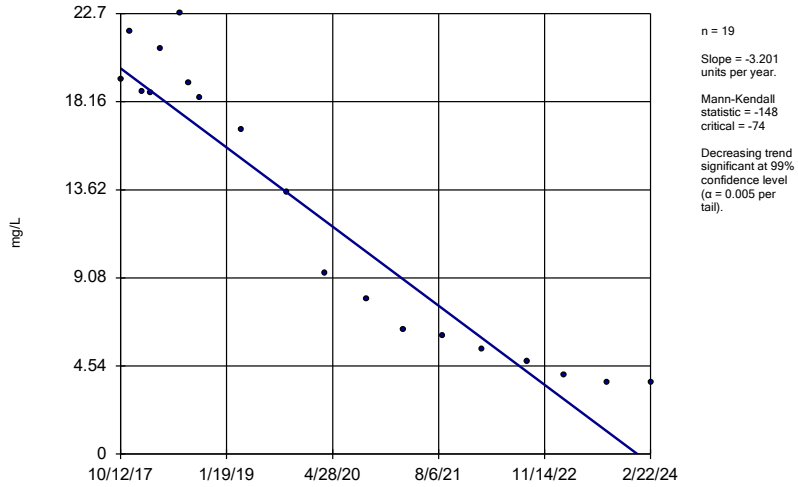
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/25/2024 2:40 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG

Sen's Slope Estimator

YGWC-38



n = 19

Slope = -3.201 units per year.

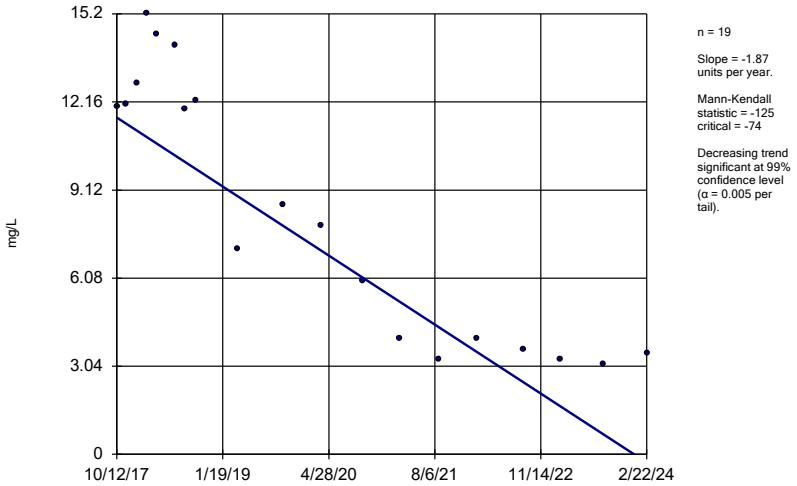
Mann-Kendall statistic = -148
critical = -74

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/25/2024 2:40 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWC-41



n = 19

Slope = -1.87 units per year.

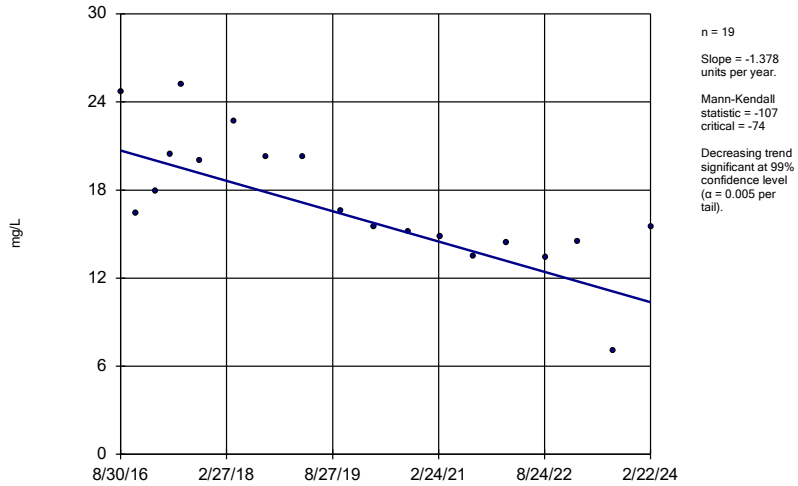
Mann-Kendall statistic = -125 critical = -74

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/25/2024 2:40 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWC-42



n = 19

Slope = -1.378 units per year.

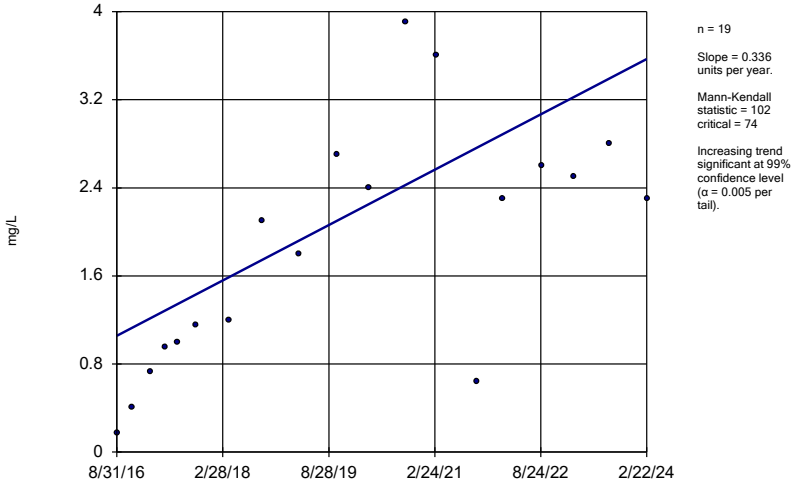
Mann-Kendall statistic = -107 critical = -74

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/25/2024 2:40 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWC-43



n = 19

Slope = 0.336 units per year.

Mann-Kendall statistic = 102 critical = 74

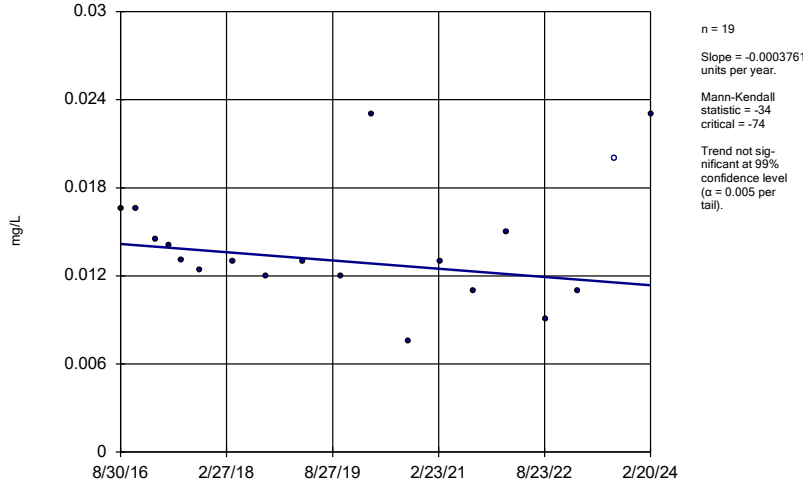
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/25/2024 2:40 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-47 (bg)



n = 19

Slope = -0.0003761 units per year.

Mann-Kendall statistic = -34 critical = -74

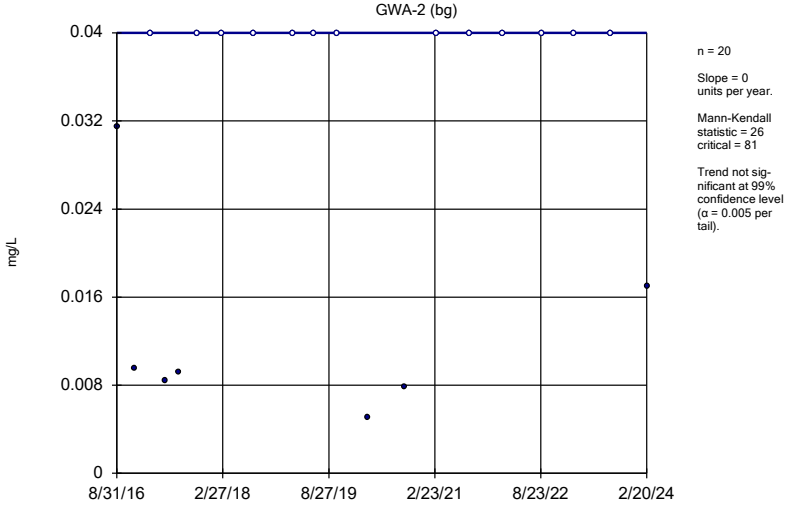
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/25/2024 2:40 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . 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

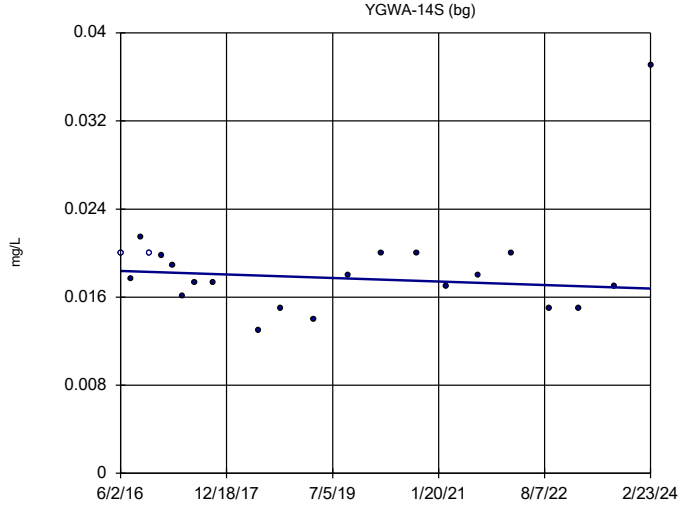
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Boron Analysis Run 4/25/2024 2:40 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-14S (bg)



n = 22

Slope = -0.0002056
units per year.

Mann-Kendall
statistic = -33
critical = -92

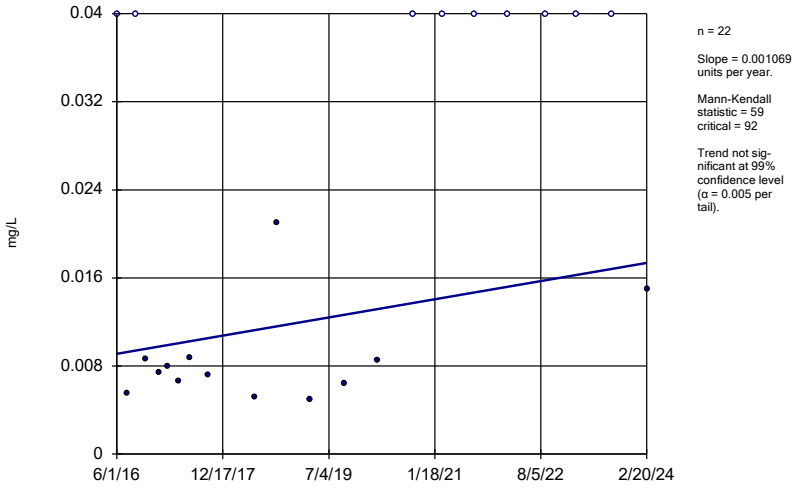
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Boron Analysis Run 4/25/2024 2:40 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-1D (bg)



n = 22

Slope = 0.001069
units per year.

Mann-Kendall
statistic = 59
critical = 92

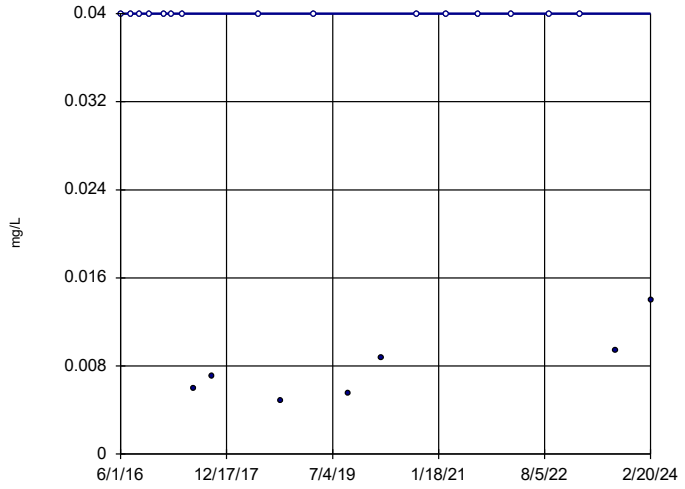
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Boron Analysis Run 4/25/2024 2:40 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-1I (bg)



n = 22

Slope = 0
units per year.

Mann-Kendall
statistic = -22
critical = -92

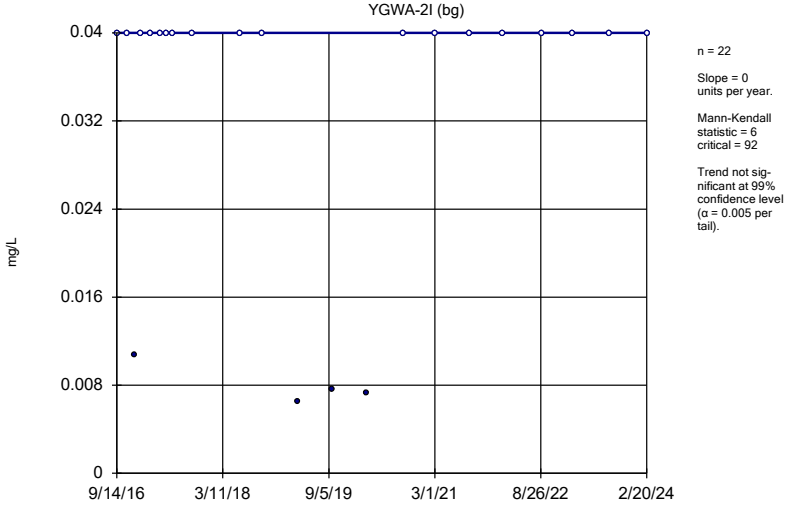
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Boron Analysis Run 4/25/2024 2:40 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-2I (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = 6
critical = 92

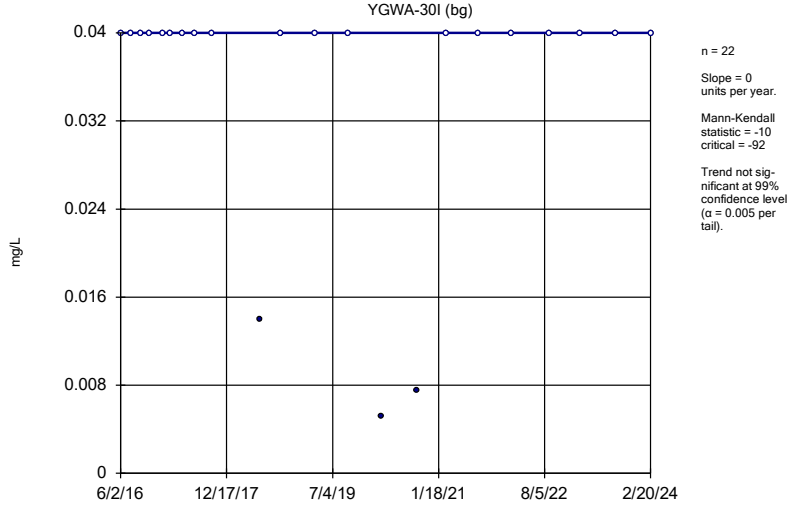
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/25/2024 2:40 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-30I (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = -10
critical = -92

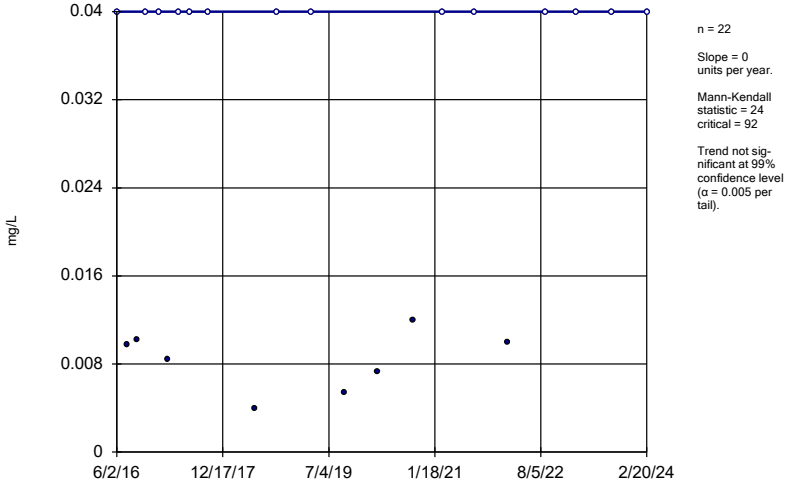
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/25/2024 2:40 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3D (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = 24
critical = 92

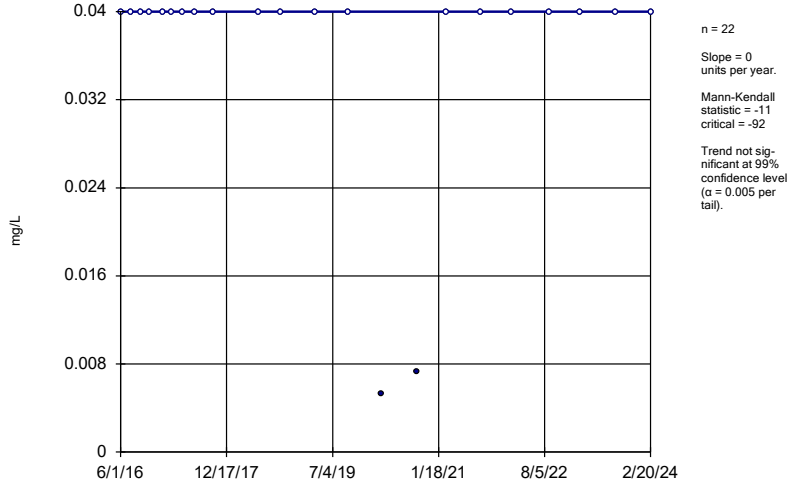
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/25/2024 2:40 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3I (bg)



n = 22

Slope = 0 units per year.

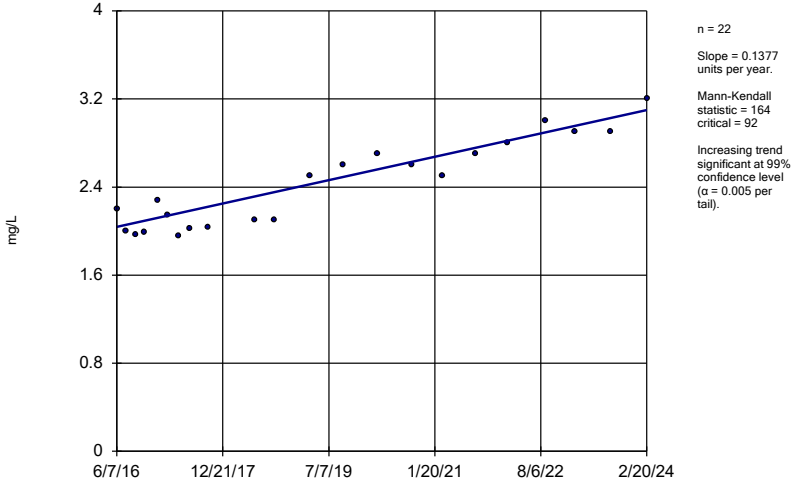
Mann-Kendall statistic = -11
critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 4/25/2024 2:40 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-17S (bg)



n = 22

Slope = 0.1377 units per year.

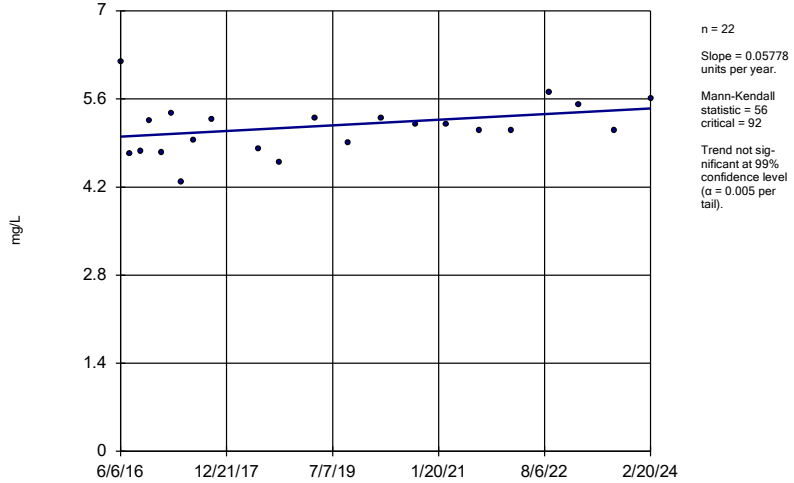
Mann-Kendall statistic = 164
critical = 92

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/25/2024 2:40 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-18I (bg)



n = 22

Slope = 0.05778 units per year.

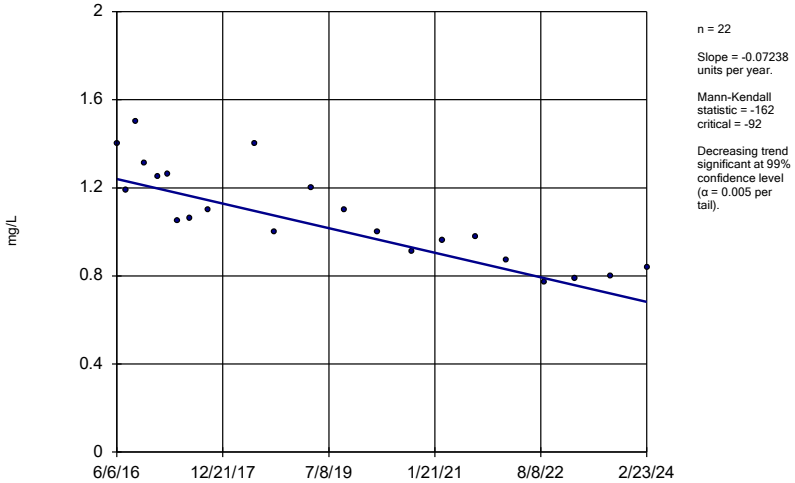
Mann-Kendall statistic = 56
critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/25/2024 2:40 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-18S (bg)



n = 22

Slope = -0.07238 units per year.

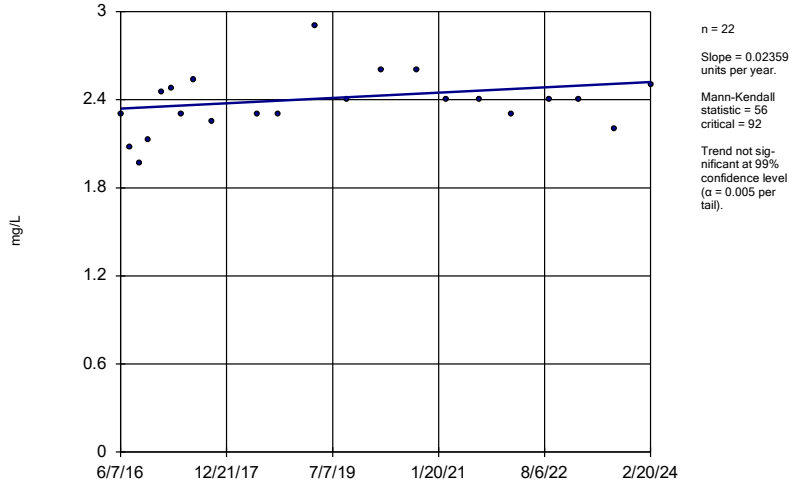
Mann-Kendall statistic = -162
critical = -92

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/25/2024 2:40 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-20S (bg)



n = 22

Slope = 0.02359 units per year.

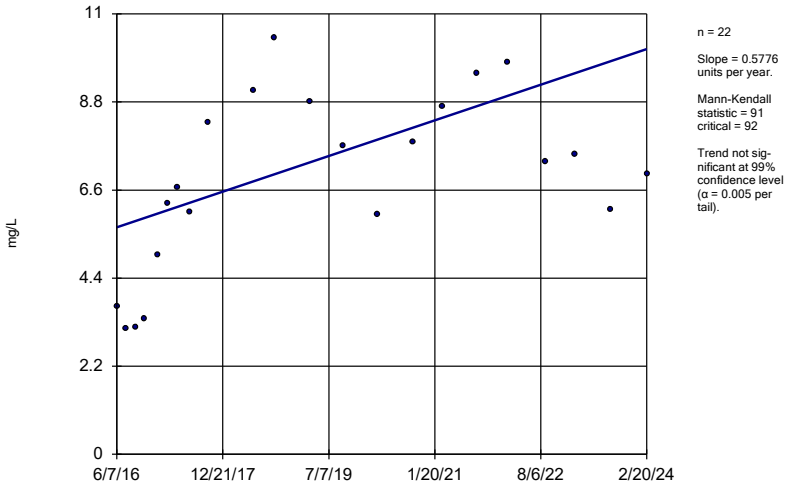
Mann-Kendall statistic = 56
critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/25/2024 2:40 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-21I (bg)



n = 22

Slope = 0.5776 units per year.

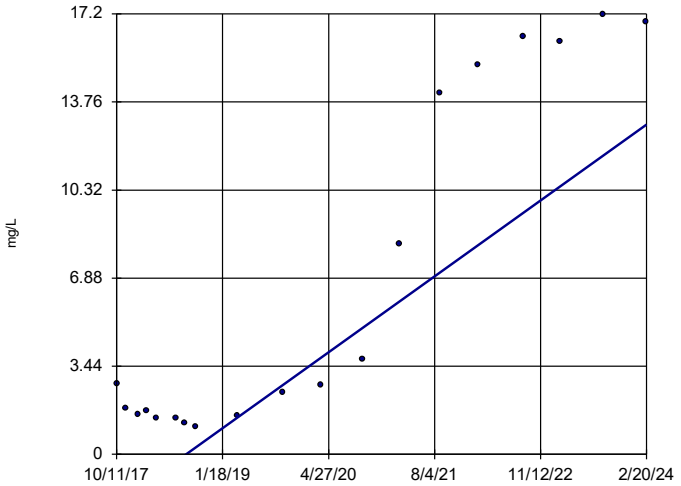
Mann-Kendall statistic = 91
critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/25/2024 2:40 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-39 (bg)



n = 19

Slope = 2.328 units per year.

Mann-Kendall statistic = 102
critical = 74

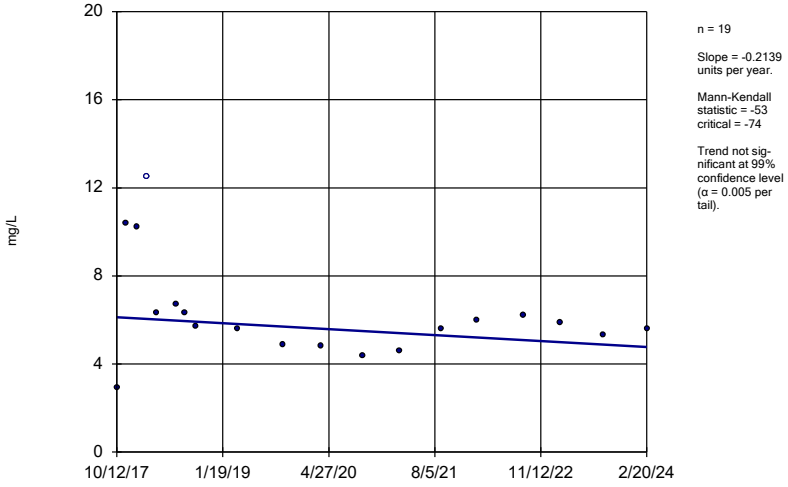
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/25/2024 2:40 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-40 (bg)



n = 19

Slope = -0.2139 units per year.

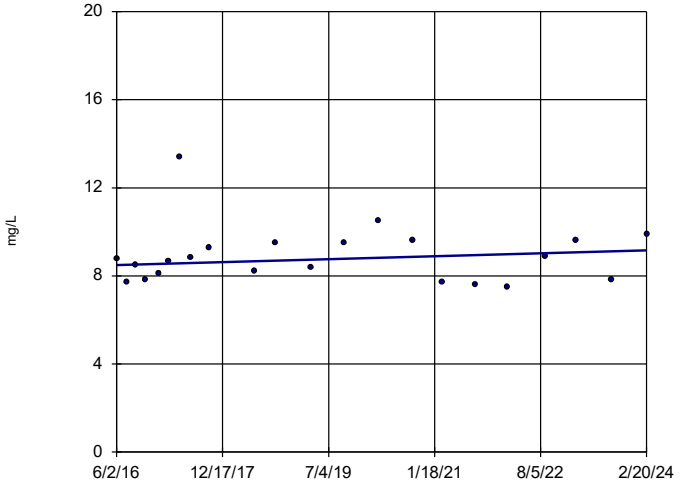
Mann-Kendall statistic = -53
critical = -74

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/25/2024 2:40 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-4I (bg)



n = 22

Slope = 0.08588 units per year.

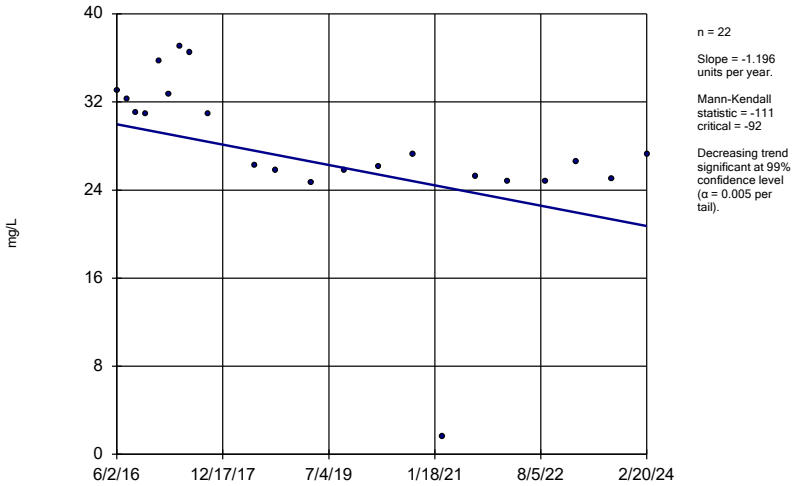
Mann-Kendall statistic = 29
critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/25/2024 2:40 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-5D (bg)



n = 22

Slope = -1.196 units per year.

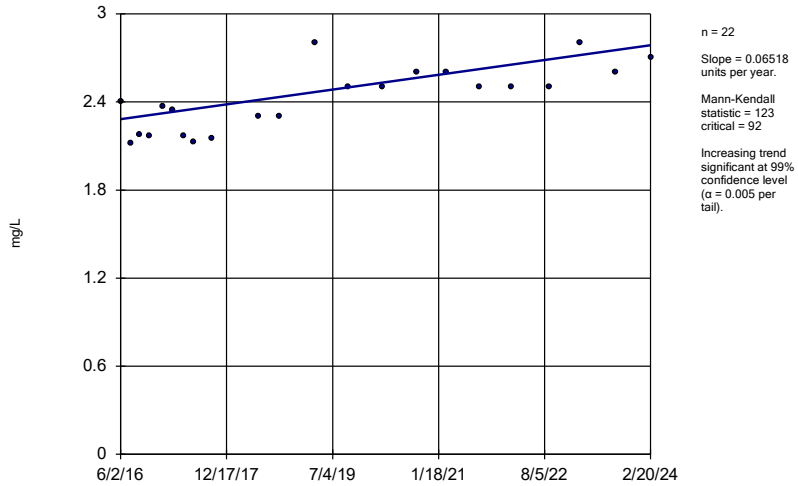
Mann-Kendall statistic = -111
critical = -92

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/25/2024 2:40 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-5I (bg)



n = 22

Slope = 0.06518 units per year.

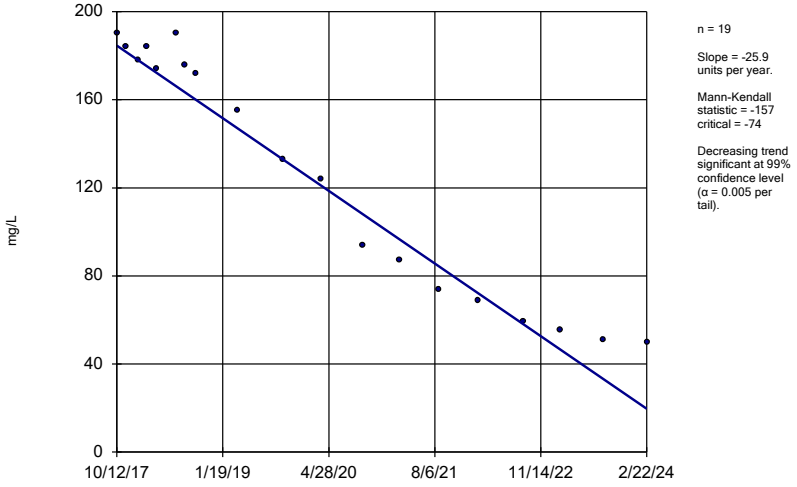
Mann-Kendall statistic = 123
critical = 92

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/25/2024 2:40 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWC-38



n = 19

Slope = -25.9 units per year.

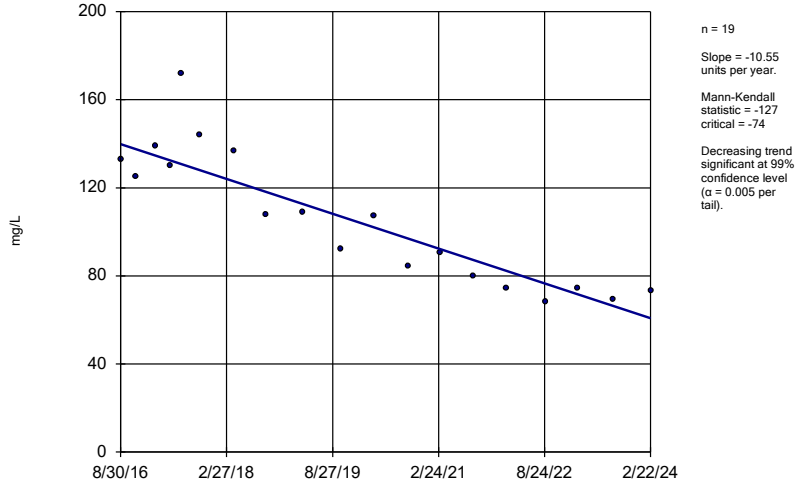
Mann-Kendall statistic = -157
critical = -74

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/25/2024 2:40 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWC-42



n = 19

Slope = -10.55 units per year.

Mann-Kendall statistic = -127
critical = -74

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/25/2024 2:40 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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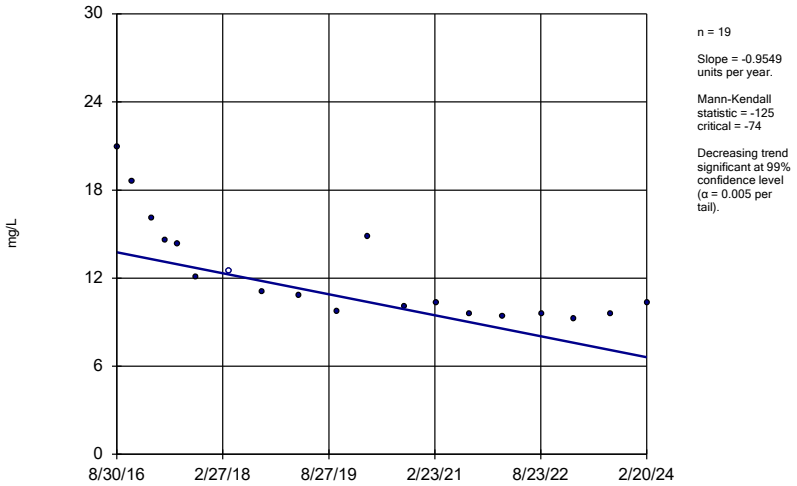
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-47 (bg)



n = 19

Slope = -0.9549 units per year.

Mann-Kendall statistic = -125 critical = -74

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/25/2024 2:40 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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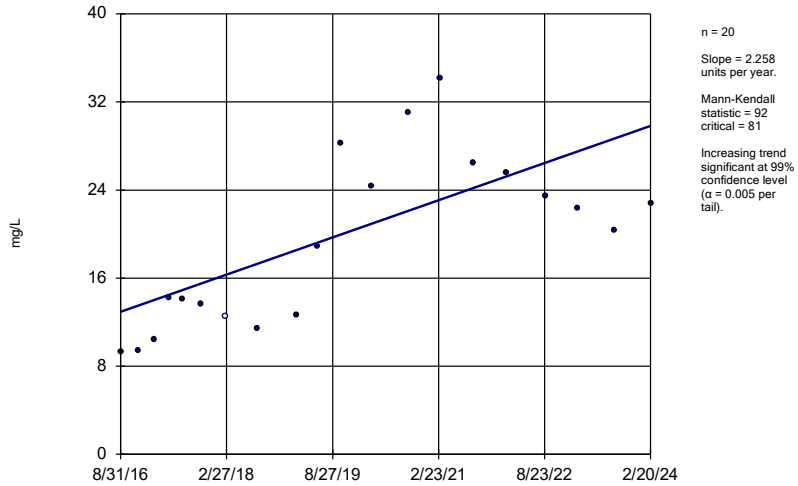
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-2 (bg)



n = 20

Slope = 2.258 units per year.

Mann-Kendall statistic = 92 critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/25/2024 2:40 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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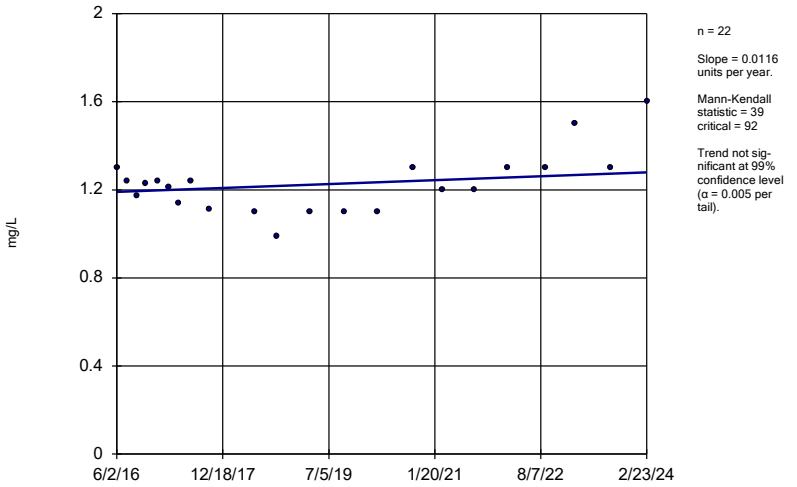
Sen's Slope Estimator

YGWA-14S (bg)



n = 22

Slope = 0.0116 units per year.

Mann-Kendall statistic = 39 critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/25/2024 2:40 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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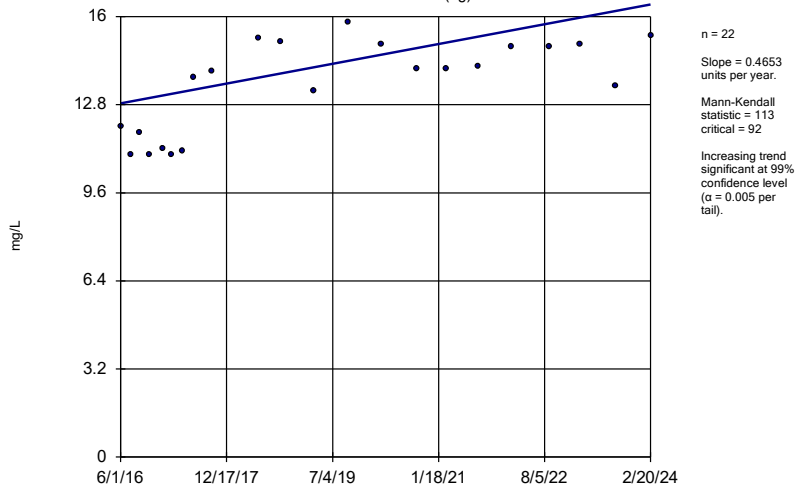
Sen's Slope Estimator

YGWA-1D (bg)



n = 22

Slope = 0.4653 units per year.

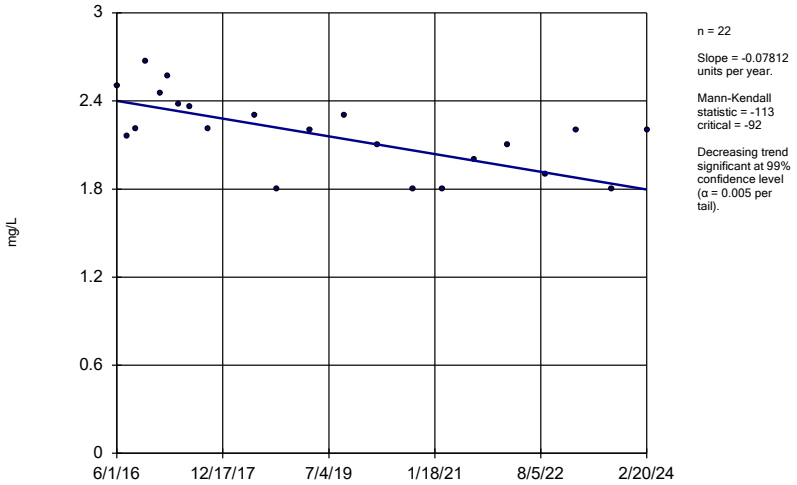
Mann-Kendall statistic = 113 critical = 92

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/25/2024 2:40 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-1I (bg)



n = 22

Slope = -0.07812 units per year.

Mann-Kendall statistic = -113 critical = -92

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/25/2024 2:40 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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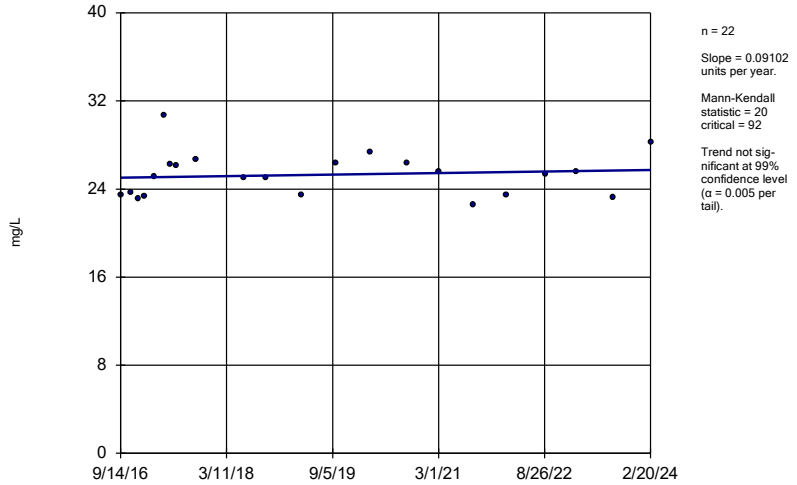
Sen's Slope Estimator

YGWA-2I (bg)



n = 22

Slope = 0.09102 units per year.

Mann-Kendall statistic = 20 critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/25/2024 2:40 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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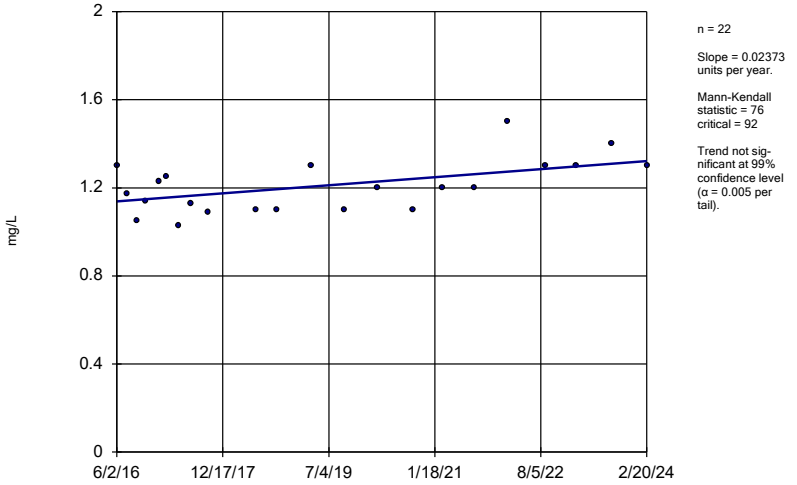
Sen's Slope Estimator

YGWA-30I (bg)



n = 22

Slope = 0.02373 units per year.

Mann-Kendall statistic = 76 critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/25/2024 2:40 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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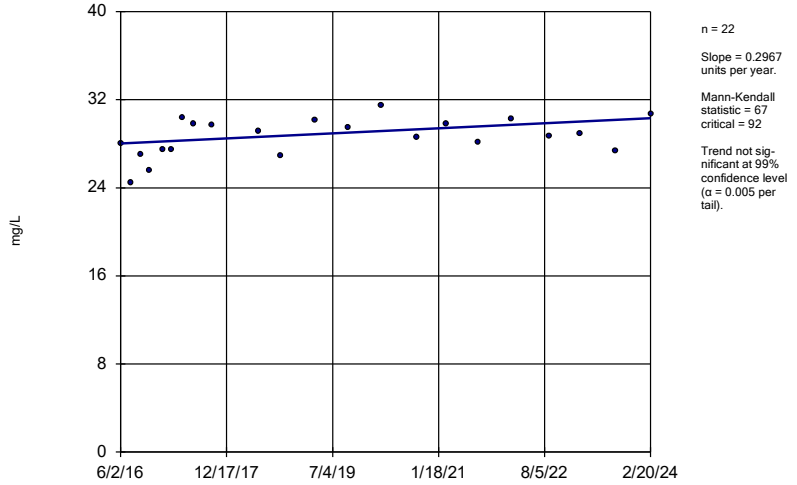
Sen's Slope Estimator

YGWA-3D (bg)



n = 22

Slope = 0.2967 units per year.

Mann-Kendall statistic = 67 critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/25/2024 2:40 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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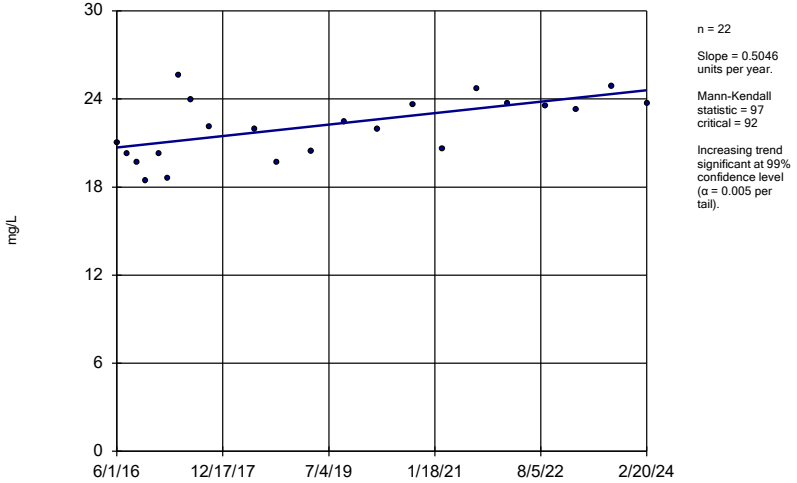
Sen's Slope Estimator

YGWA-3I (bg)



n = 22

Slope = 0.5046 units per year.

Mann-Kendall statistic = 97 critical = 92

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/25/2024 2:40 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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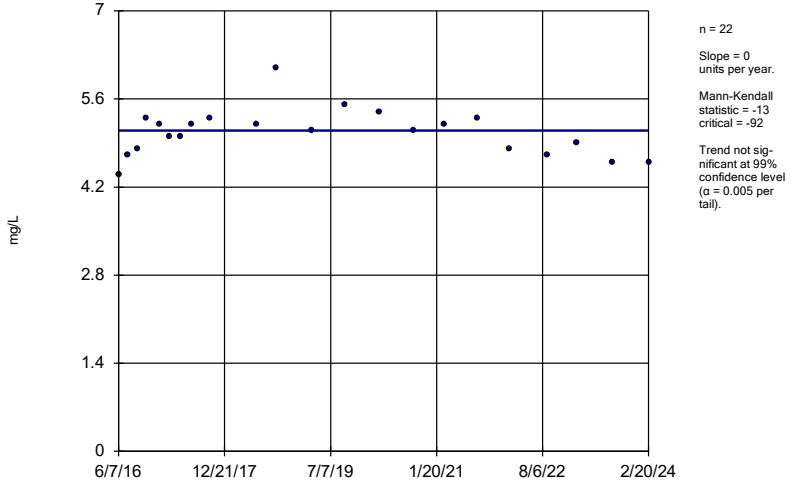
Sen's Slope Estimator

YGWA-17S (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = -13 critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/25/2024 2:40 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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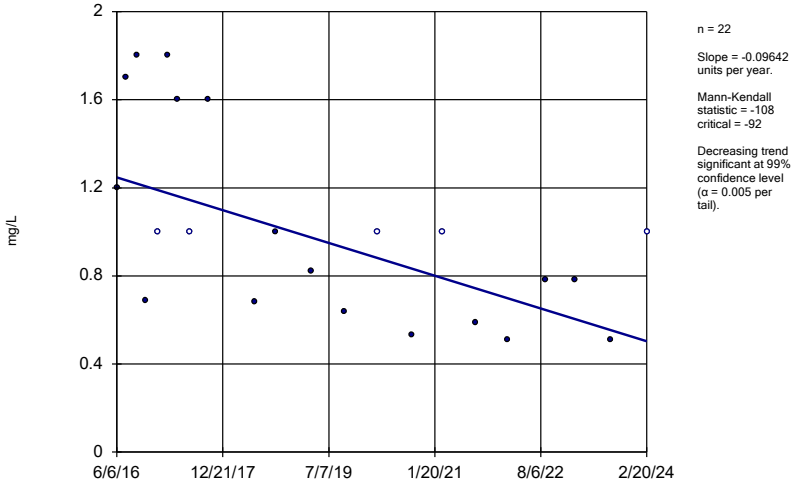
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18I (bg)



n = 22

Slope = -0.09642 units per year.

Mann-Kendall statistic = -108 critical = -92

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/25/2024 2:40 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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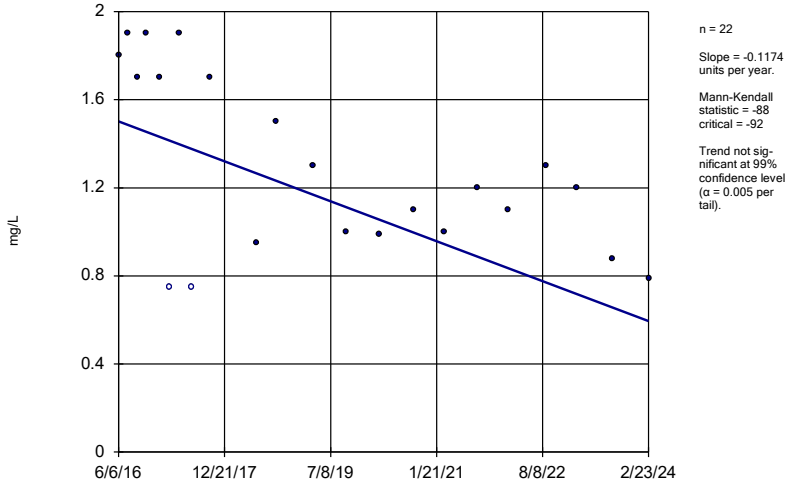
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18S (bg)



n = 22

Slope = -0.1174 units per year.

Mann-Kendall statistic = -88 critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/25/2024 2:40 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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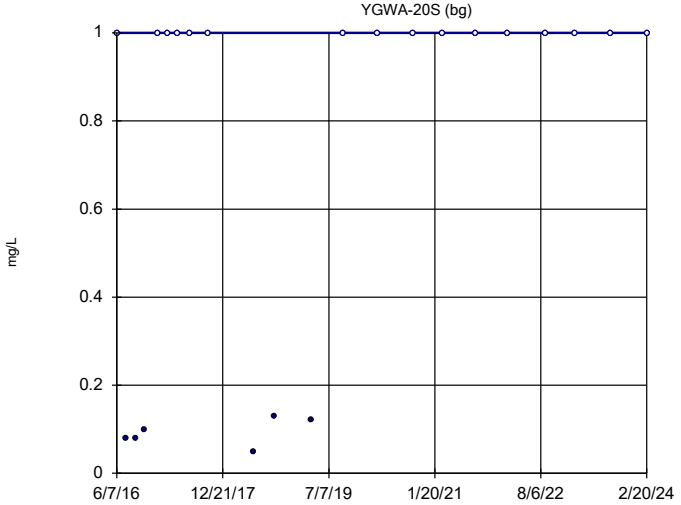
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-20S (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = 60
critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/25/2024 2:40 PM View: Appendix III - Trend Tests

Plant Yates Data: Plant Yates AMA-R6

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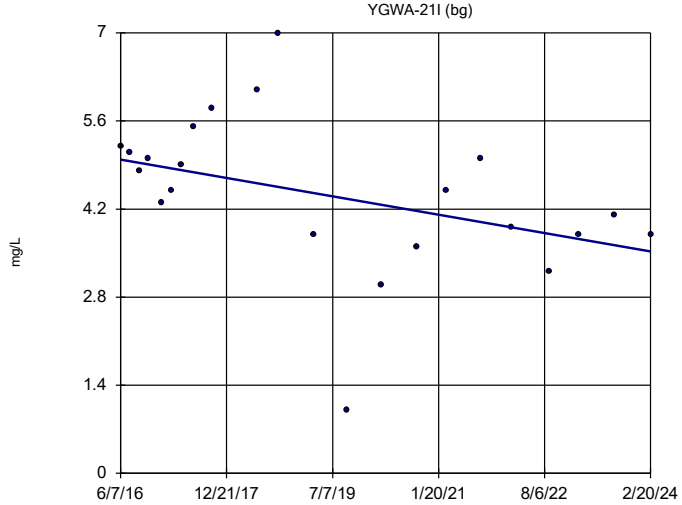
Sen's Slope Estimator

YGWA-21I (bg)



n = 22

Slope = -0.1893 units per year.

Mann-Kendall statistic = -72
critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/25/2024 2:40 PM View: Appendix III - Trend Tests

Plant Yates Data: Plant Yates AMA-R6

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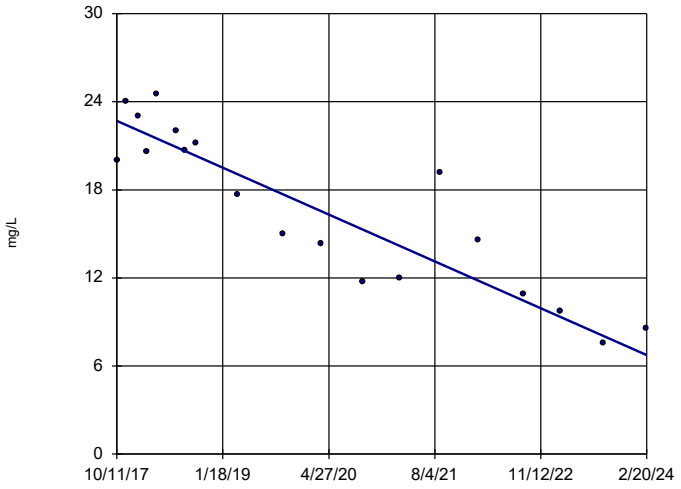
Sen's Slope Estimator

YGWA-39 (bg)



n = 19

Slope = -2.507 units per year.

Mann-Kendall statistic = -123
critical = -74

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/25/2024 2:40 PM View: Appendix III - Trend Tests

Plant Yates Data: Plant Yates AMA-R6

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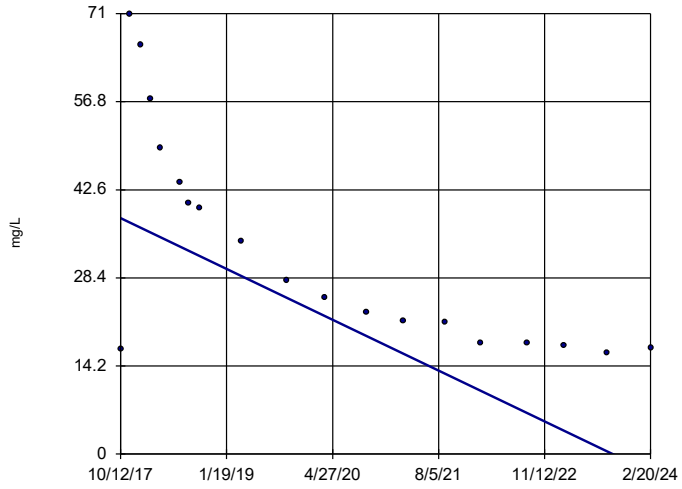
Sen's Slope Estimator

YGWA-40 (bg)



n = 19

Slope = -6.44 units per year.

Mann-Kendall statistic = -134
critical = -74

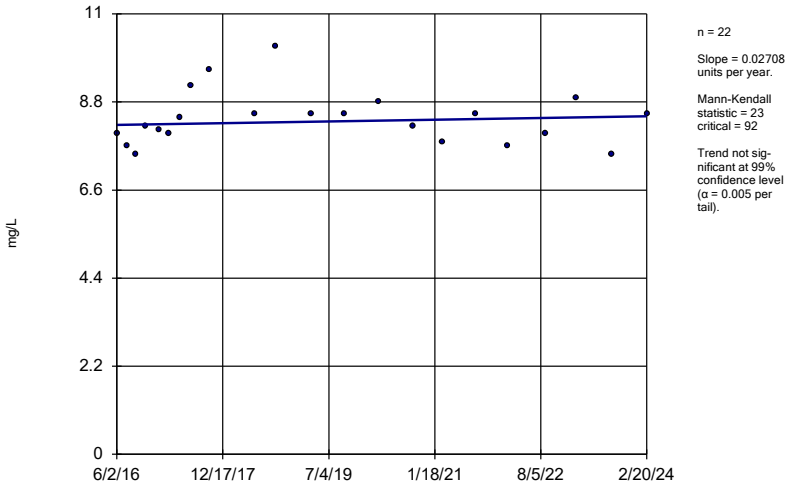
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/25/2024 2:40 PM View: Appendix III - Trend Tests

Plant Yates Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-4I (bg)



n = 22

Slope = 0.02708 units per year.

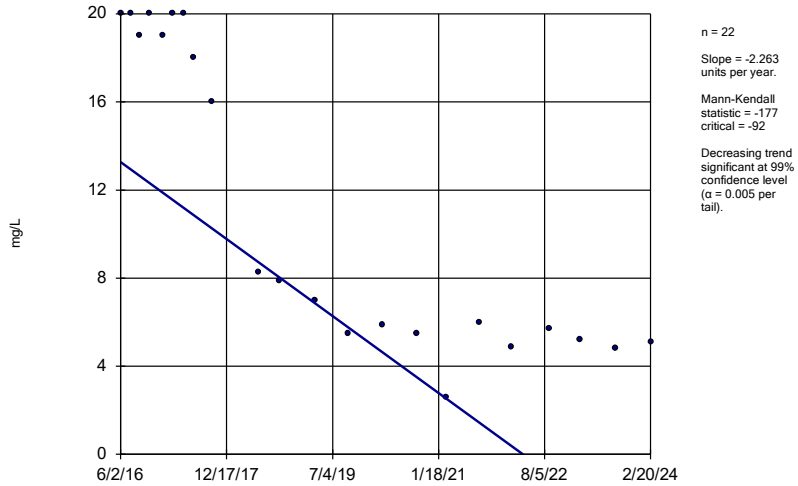
Mann-Kendall statistic = 23
critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/25/2024 2:40 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-5D (bg)



n = 22

Slope = -2.263 units per year.

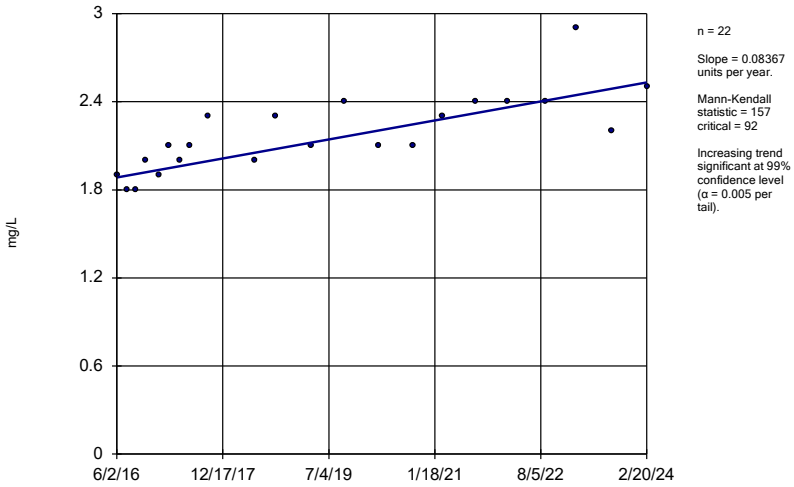
Mann-Kendall statistic = -177
critical = -92

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/25/2024 2:40 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-5I (bg)



n = 22

Slope = 0.08367 units per year.

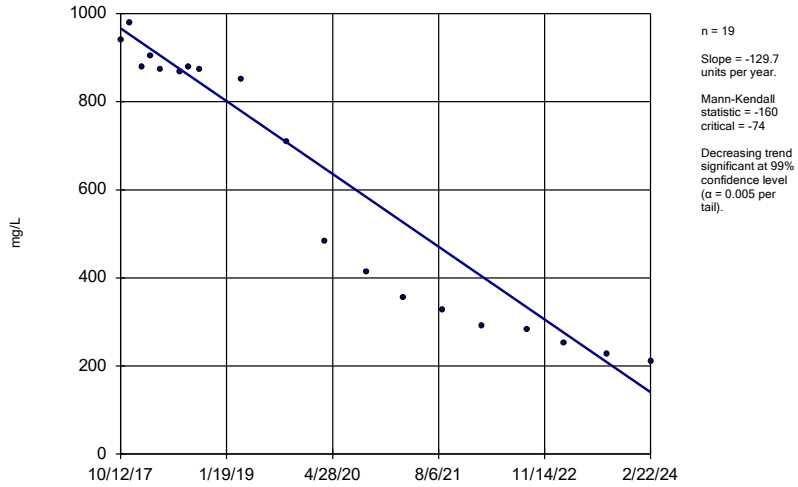
Mann-Kendall statistic = 157
critical = 92

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/25/2024 2:40 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWC-38



n = 19

Slope = -129.7 units per year.

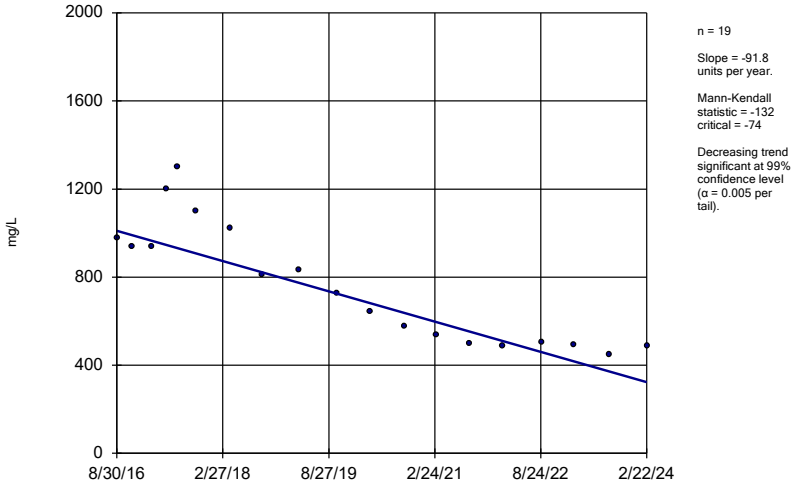
Mann-Kendall statistic = -160
critical = -74

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/25/2024 2:40 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWC-42



n = 19

Slope = -91.8 units per year.

Mann-Kendall statistic = -132
critical = -74

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/25/2024 2:40 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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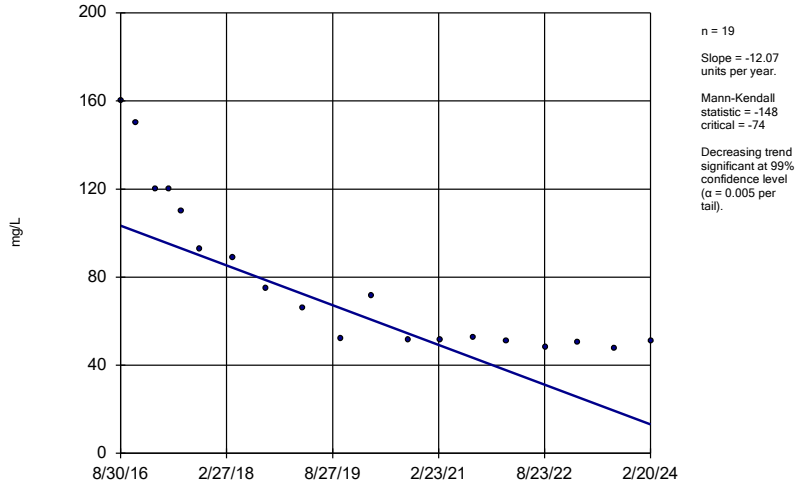
Sen's Slope Estimator

YGWA-47 (bg)



n = 19

Slope = -12.07 units per year.

Mann-Kendall statistic = -148
critical = -74

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/25/2024 2:40 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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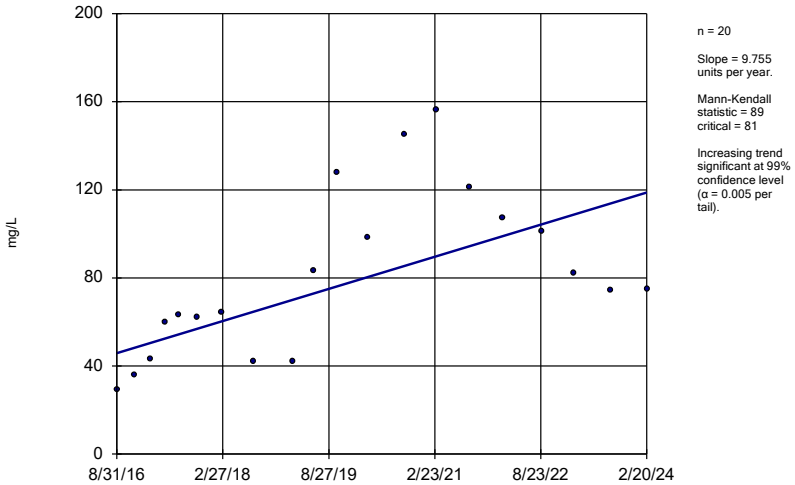
Sen's Slope Estimator

GWA-2 (bg)



n = 20

Slope = 9.755 units per year.

Mann-Kendall statistic = 89
critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/25/2024 2:40 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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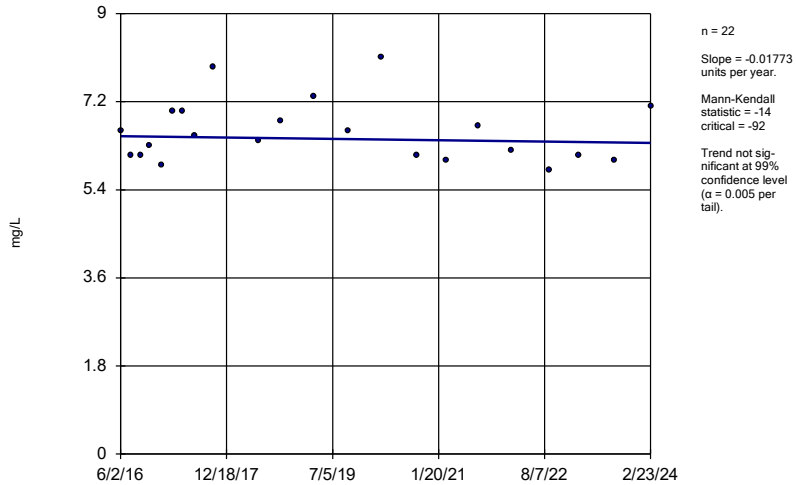
Sen's Slope Estimator

YGWA-14S (bg)



n = 22

Slope = -0.01773 units per year.

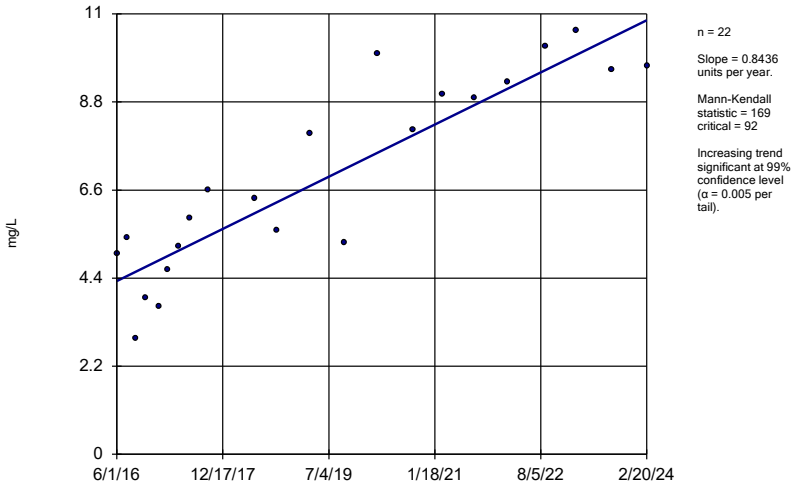
Mann-Kendall statistic = -14
critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/25/2024 2:40 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-1D (bg)



n = 22

Slope = 0.8436 units per year.

Mann-Kendall statistic = 169 critical = 92

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/25/2024 2:40 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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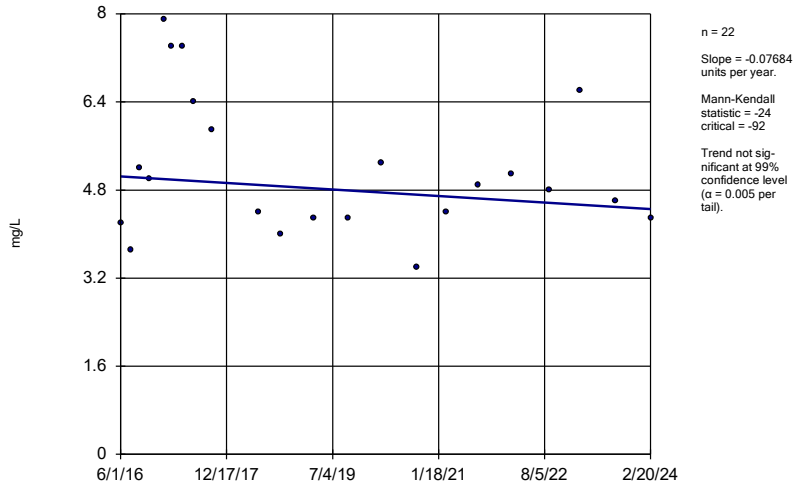
Sen's Slope Estimator

YGWA-1I (bg)



n = 22

Slope = -0.07684 units per year.

Mann-Kendall statistic = -24 critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/25/2024 2:40 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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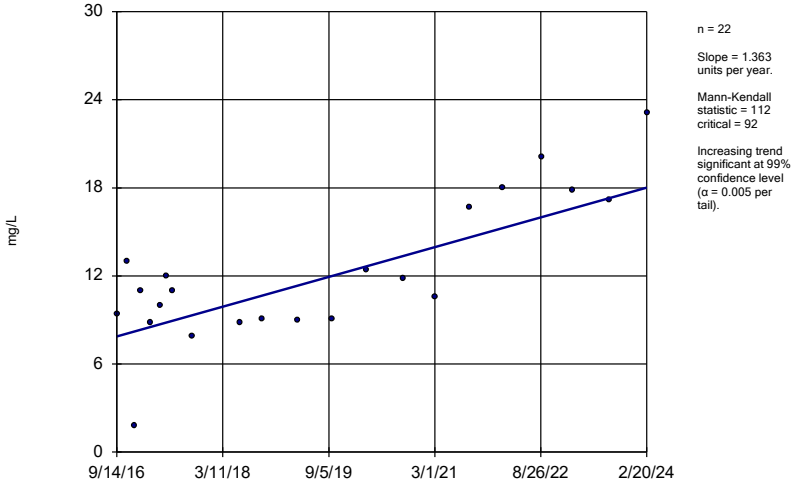
Sen's Slope Estimator

YGWA-2I (bg)



n = 22

Slope = 1.363 units per year.

Mann-Kendall statistic = 112 critical = 92

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/25/2024 2:40 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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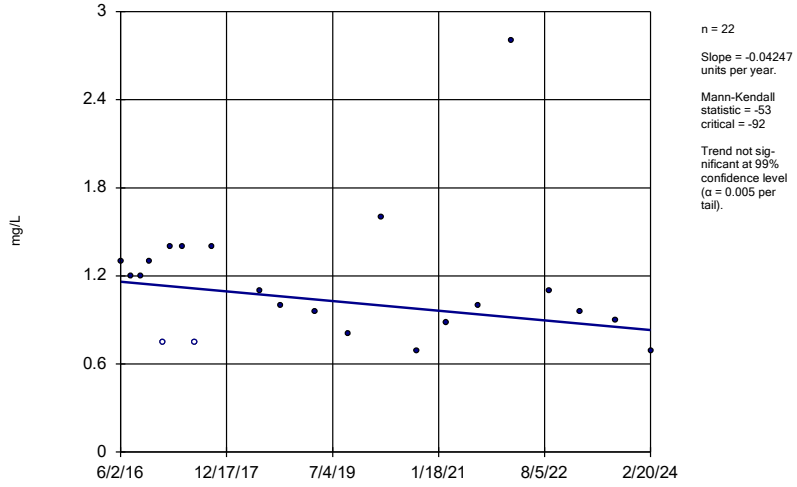
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-30I (bg)



n = 22

Slope = -0.04247 units per year.

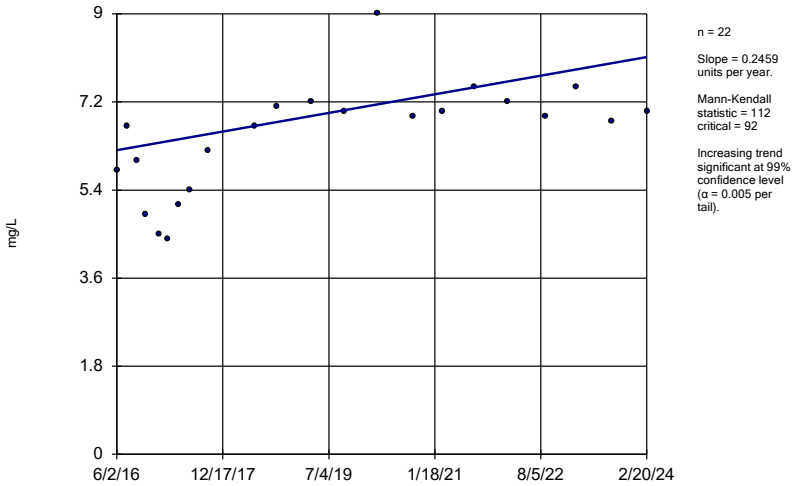
Mann-Kendall statistic = -53 critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/25/2024 2:40 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-3D (bg)



n = 22

Slope = 0.2459 units per year.

Mann-Kendall statistic = 112
critical = 92

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/25/2024 2:41 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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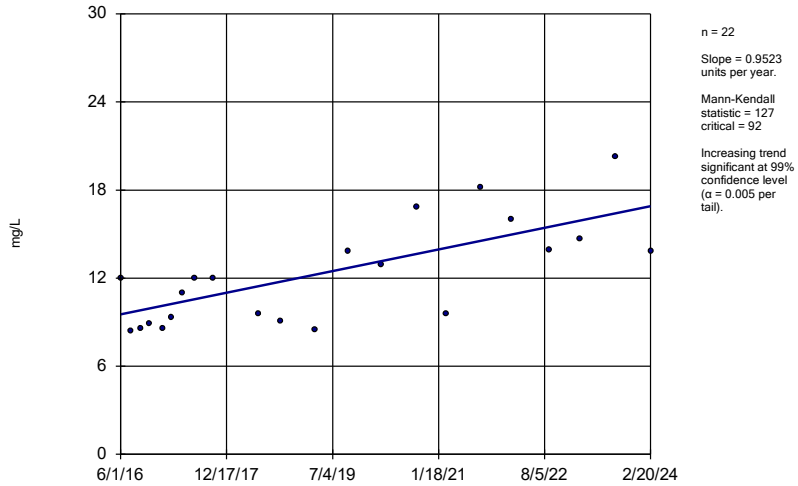
Sen's Slope Estimator

YGWA-3I (bg)



n = 22

Slope = 0.9523 units per year.

Mann-Kendall statistic = 127
critical = 92

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 4/25/2024 2:41 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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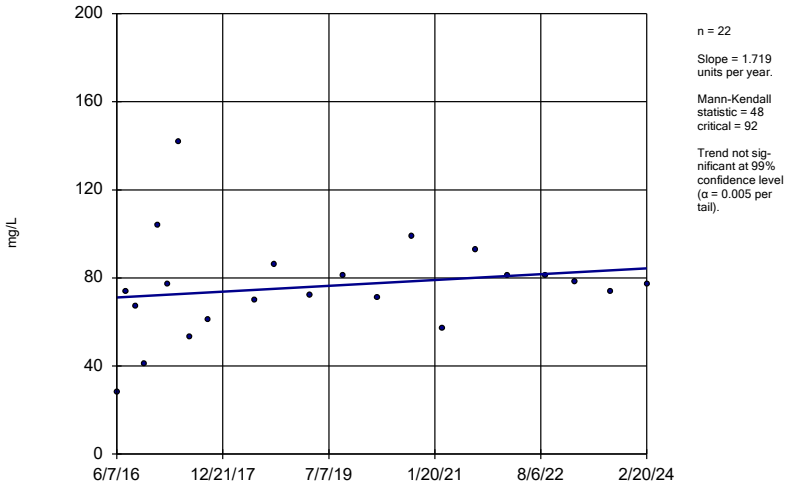
Sen's Slope Estimator

YGWA-17S (bg)



n = 22

Slope = 1.719 units per year.

Mann-Kendall statistic = 48
critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/25/2024 2:41 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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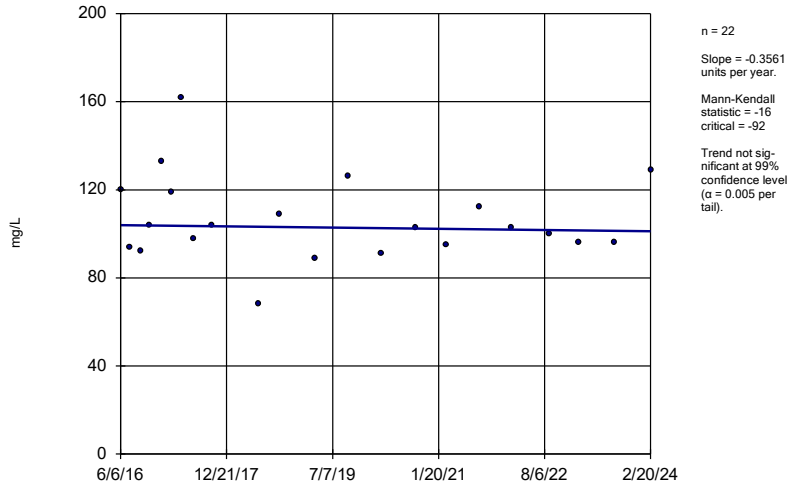
Sen's Slope Estimator

YGWA-18I (bg)



n = 22

Slope = -0.3561 units per year.

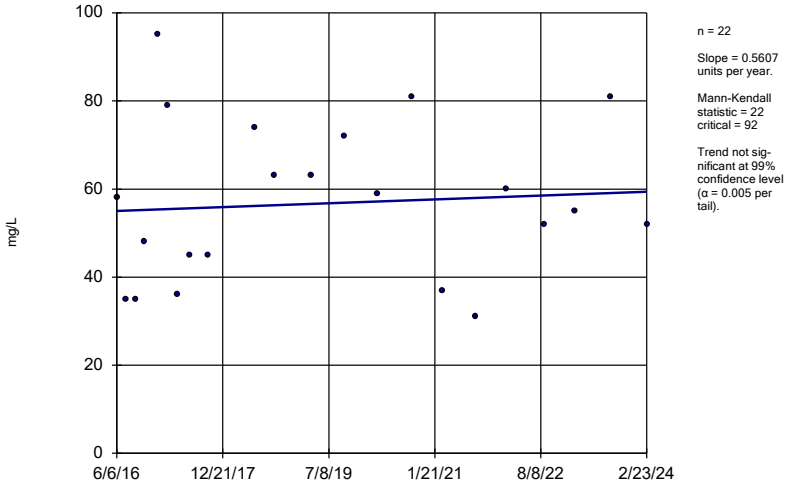
Mann-Kendall statistic = -16
critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/25/2024 2:41 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-18S (bg)



n = 22

Slope = 0.5607 units per year.

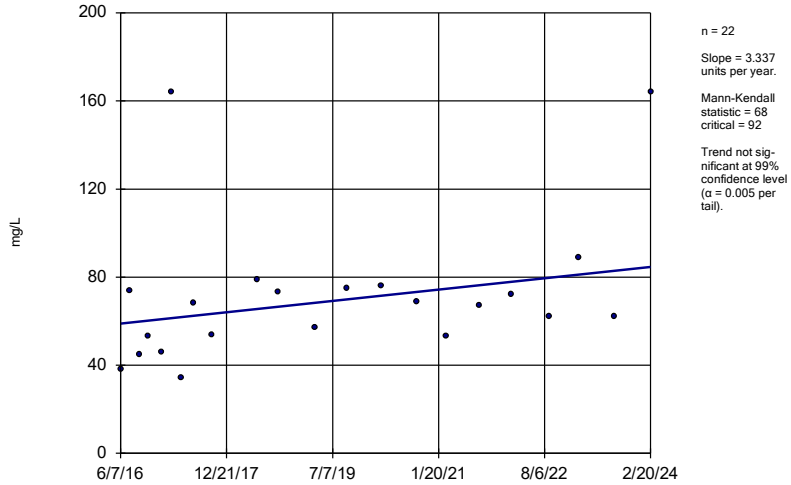
Mann-Kendall statistic = 22
critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/25/2024 2:41 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-20S (bg)



n = 22

Slope = 3.337 units per year.

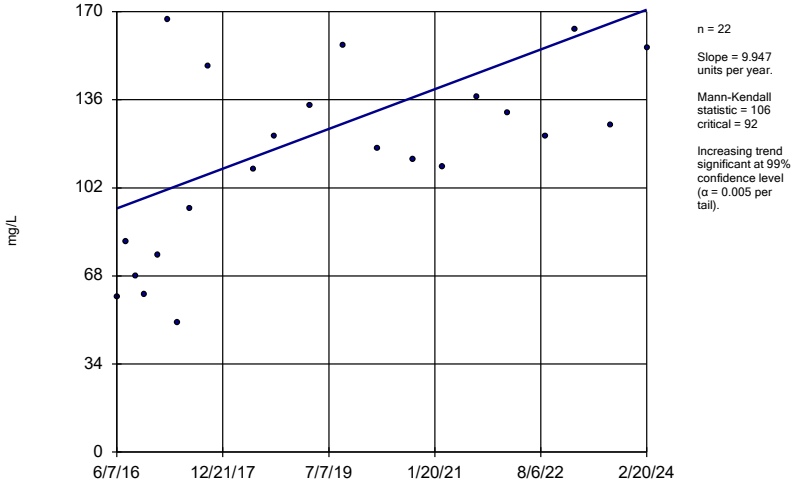
Mann-Kendall statistic = 68
critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/25/2024 2:41 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-21I (bg)



n = 22

Slope = 9.947 units per year.

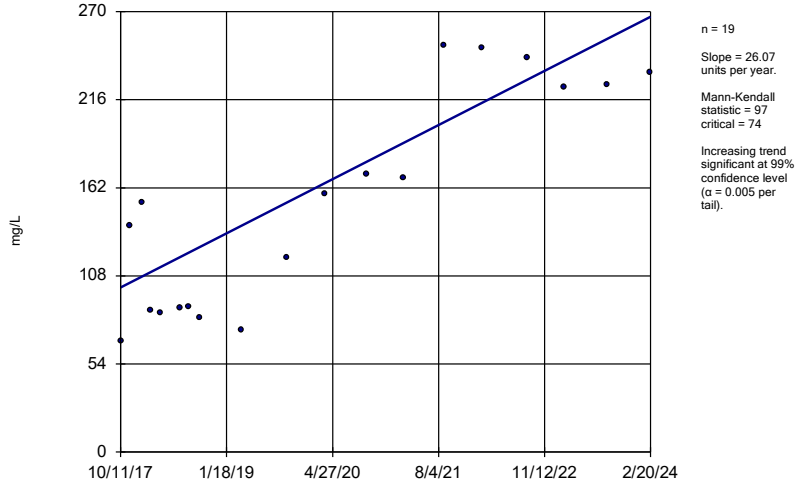
Mann-Kendall statistic = 106
critical = 92

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/25/2024 2:41 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-39 (bg)



n = 19

Slope = 26.07 units per year.

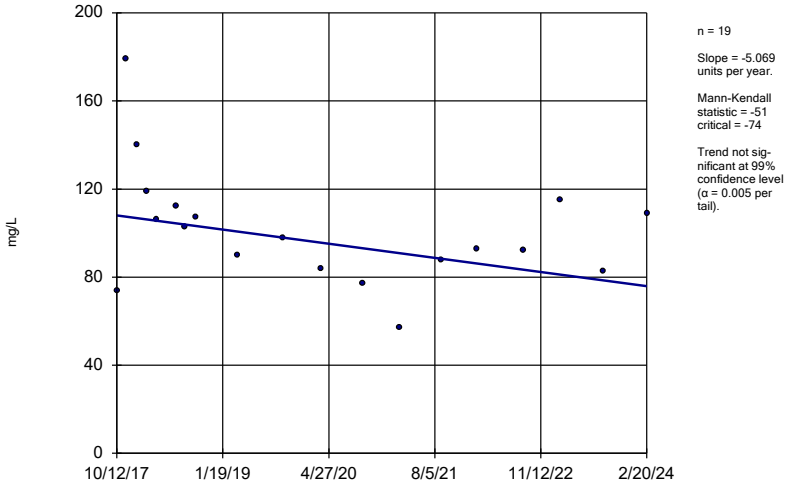
Mann-Kendall statistic = 97
critical = 74

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/25/2024 2:41 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-40 (bg)



n = 19

Slope = -5.069 units per year.

Mann-Kendall statistic = -51 critical = -74

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/25/2024 2:41 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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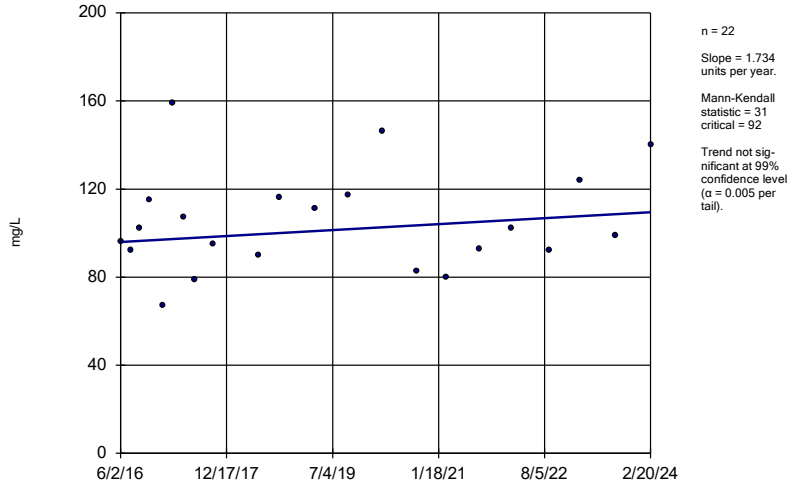
Sen's Slope Estimator

YGWA-4I (bg)



n = 22

Slope = 1.734 units per year.

Mann-Kendall statistic = 31 critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/25/2024 2:41 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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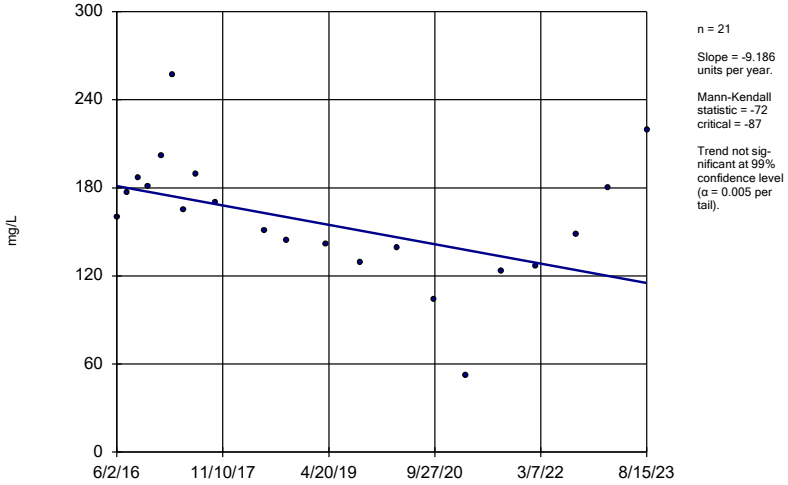
Sen's Slope Estimator

YGWA-5D (bg)



n = 21

Slope = -9.186 units per year.

Mann-Kendall statistic = -72 critical = -87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/25/2024 2:41 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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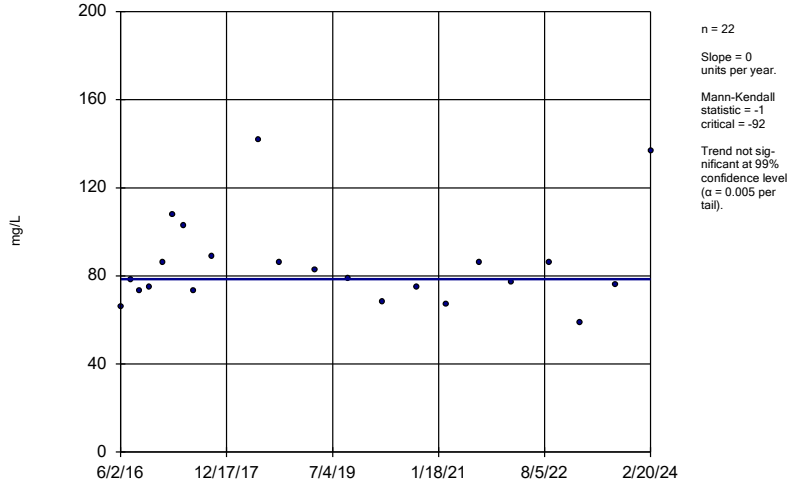
Sen's Slope Estimator

YGWA-5I (bg)



n = 22

Slope = 0 units per year.

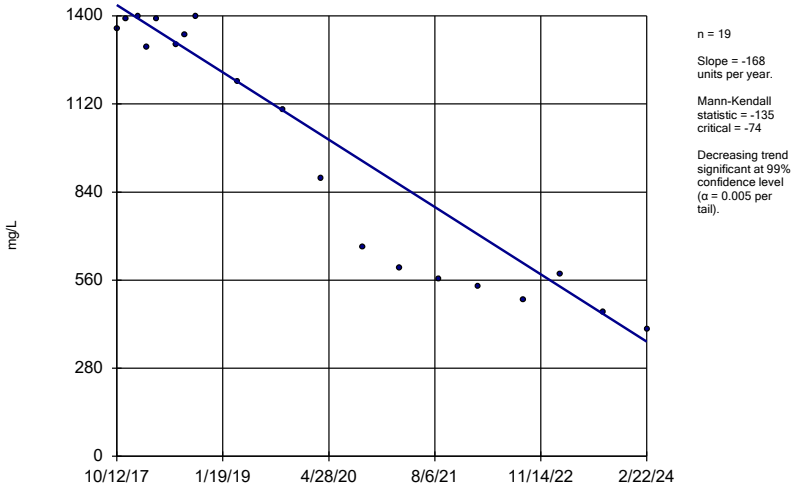
Mann-Kendall statistic = -1 critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/25/2024 2:41 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWC-38



n = 19

Slope = -168 units per year.

Mann-Kendall statistic = -135 critical = -74

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/25/2024 2:41 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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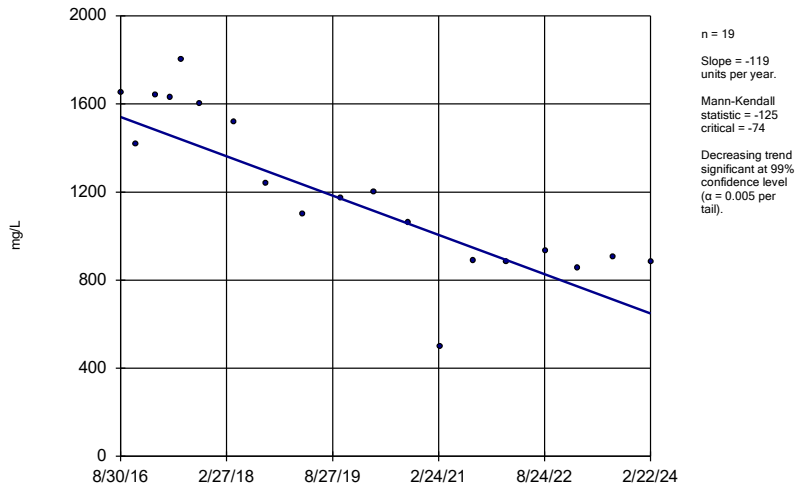
Sen's Slope Estimator

YGWC-42



n = 19

Slope = -119 units per year.

Mann-Kendall statistic = -125 critical = -74

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/25/2024 2:41 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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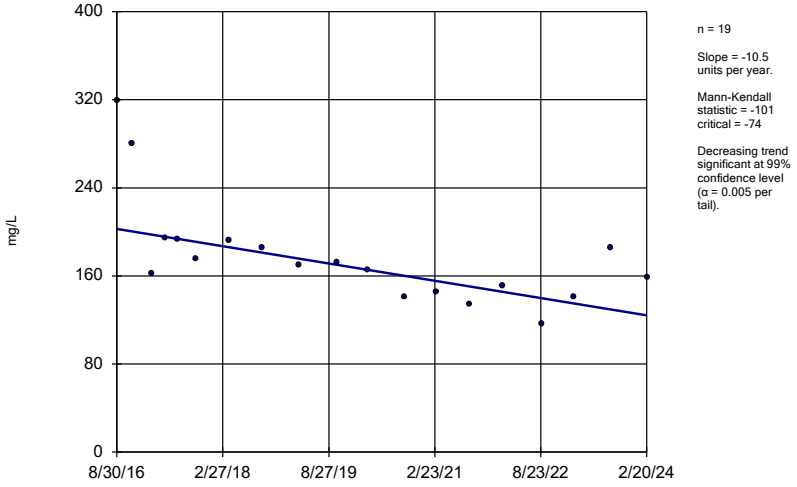
Sen's Slope Estimator

YGWA-47 (bg)



n = 19

Slope = -10.5 units per year.

Mann-Kendall statistic = -101 critical = -74

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/25/2024 2:41 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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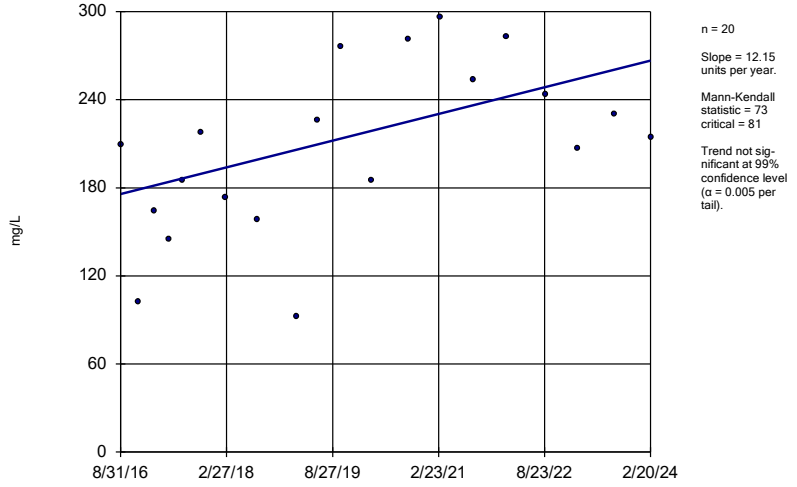
Sen's Slope Estimator

GWA-2 (bg)



n = 20

Slope = 12.15 units per year.

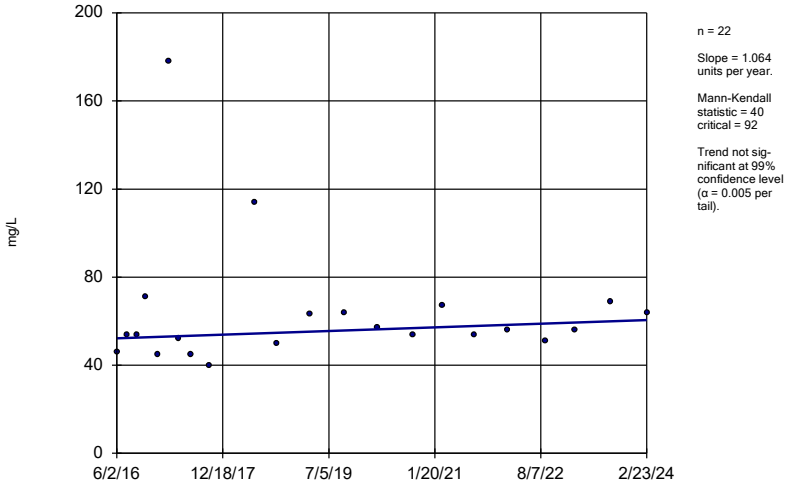
Mann-Kendall statistic = 73 critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/25/2024 2:41 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-14S (bg)



n = 22

Slope = 1.064 units per year.

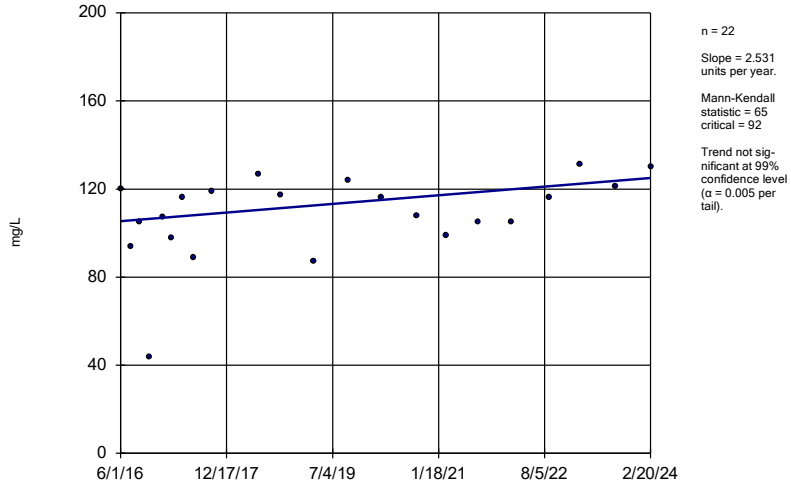
Mann-Kendall statistic = 40
critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/25/2024 2:41 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-1D (bg)



n = 22

Slope = 2.531 units per year.

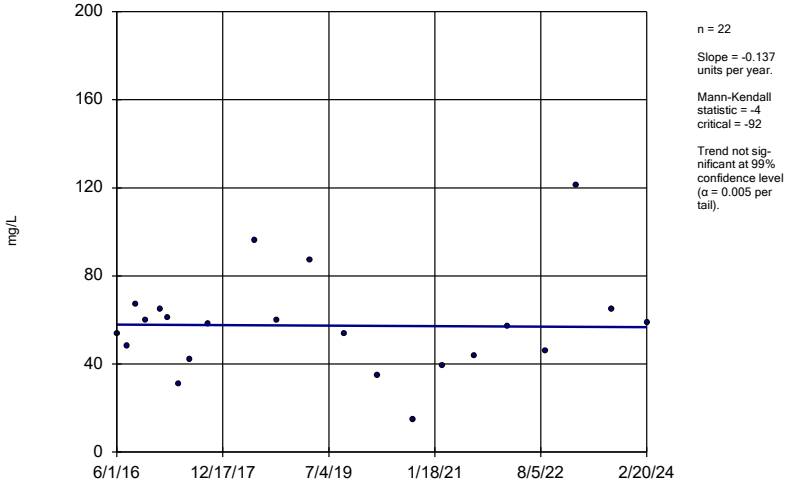
Mann-Kendall statistic = 65
critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/25/2024 2:41 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-1I (bg)



n = 22

Slope = -0.137 units per year.

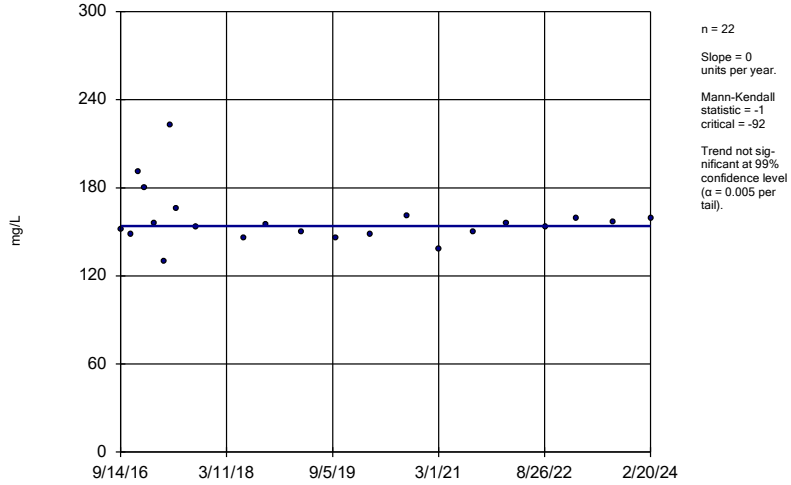
Mann-Kendall statistic = -4
critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/25/2024 2:41 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-2I (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = -1
critical = -92

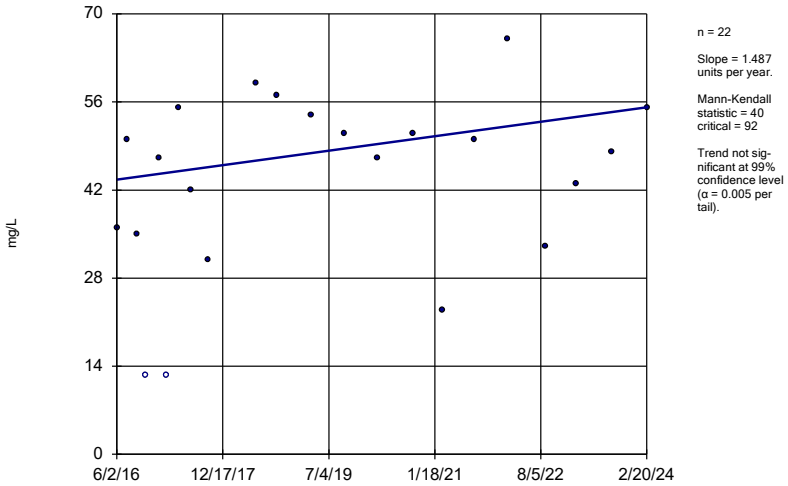
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/25/2024 2:41 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-30I (bg)



n = 22

Slope = 1.487 units per year.

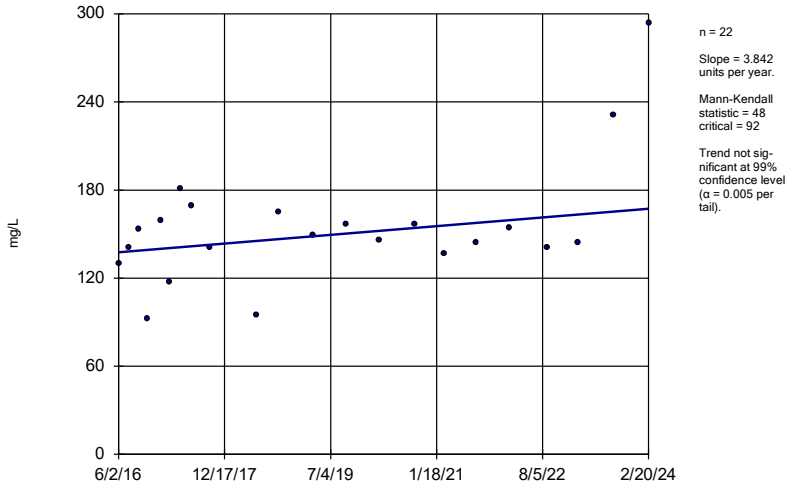
Mann-Kendall statistic = 40 critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/25/2024 2:41 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-3D (bg)



n = 22

Slope = 3.842 units per year.

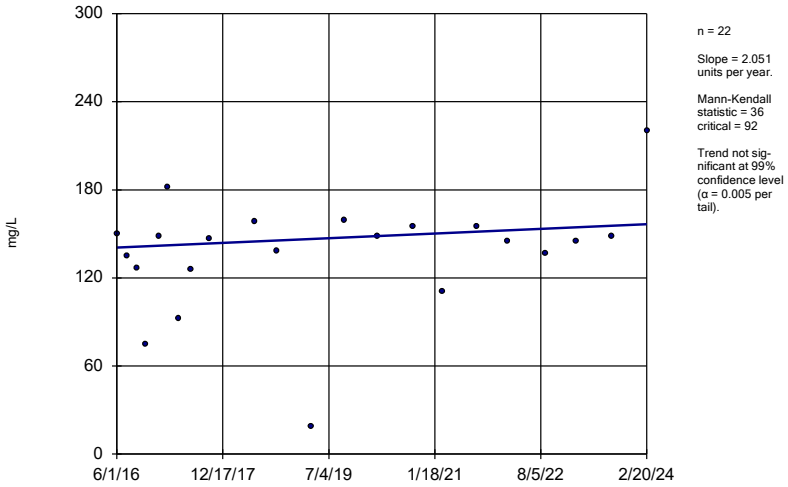
Mann-Kendall statistic = 48 critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/25/2024 2:41 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-3I (bg)



n = 22

Slope = 2.051 units per year.

Mann-Kendall statistic = 36 critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 4/25/2024 2:41 PM View: Appendix III - Trend Tests
Plant Yates Data: Plant Yates AMA-R6

FIGURE F.

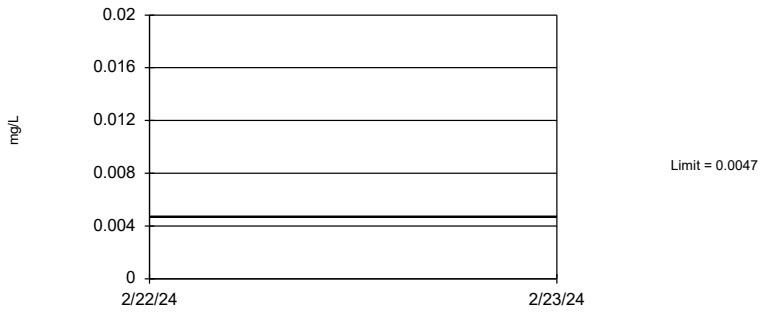
Upper Tolerance Limits Summary Table

Plant Yates Data: Plant Yates AMA-R6 Printed 4/25/2024, 2:49 PM

Constituent	Upper Lim.	Lower Lim.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.0047	n/a	429	n/a	n/a	87.88	n/a	n/a	NaN	NP Inter(NDs)
Arsenic (mg/L)	0.005	n/a	477	n/a	n/a	75.26	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	0.21	n/a	477	n/a	n/a	2.306	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	0.0011	n/a	461	n/a	n/a	80.04	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	0.00063	n/a	461	n/a	n/a	95.01	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	0.0093	n/a	429	n/a	n/a	81.59	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	0.035	n/a	471	n/a	n/a	68.79	n/a	n/a	NaN	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	6.92	n/a	456	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Fluoride (mg/L)	0.68	n/a	476	n/a	n/a	63.45	n/a	n/a	NaN	NP Inter(NDs)
Lead (mg/L)	0.0013	n/a	431	n/a	n/a	87.24	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	0.03	n/a	456	n/a	n/a	27.19	n/a	n/a	NaN	NP Inter(normality)
Mercury (mg/L)	0.00064	n/a	385	n/a	n/a	89.35	n/a	n/a	NaN	NP Inter(NDs)
Molybdenum (mg/L)	0.03	n/a	420	n/a	n/a	61.19	n/a	n/a	NaN	NP Inter(NDs)
Selenium (mg/L)	0.005	n/a	459	n/a	n/a	92.81	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	0.001	n/a	395	n/a	n/a	97.47	n/a	n/a	NaN	NP Inter(NDs)

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 429 background values. 87.88% 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 4/25/2024 2:47 PM View: Appendix IV - UTLs
Plant Yates Data: Plant Yates AMA-R6

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Tolerance Limit

Interwell Non-parametric

Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 477 background values. 75.26% 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 4/25/2024 2:47 PM View: Appendix IV - UTLs
Plant Yates Data: Plant Yates AMA-R6

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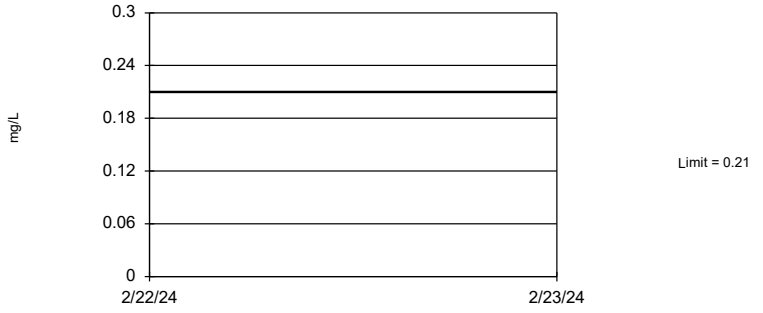
Tolerance Limit

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 477 background values. 2.306% 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 4/25/2024 2:47 PM View: Appendix IV - UTLs
Plant Yates Data: Plant Yates AMA-R6

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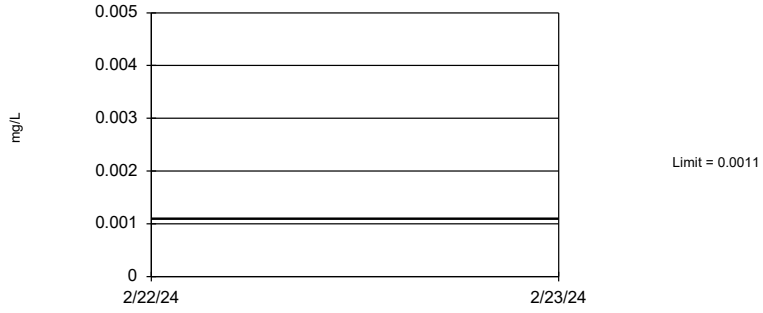
Tolerance Limit

Interwell Non-parametric

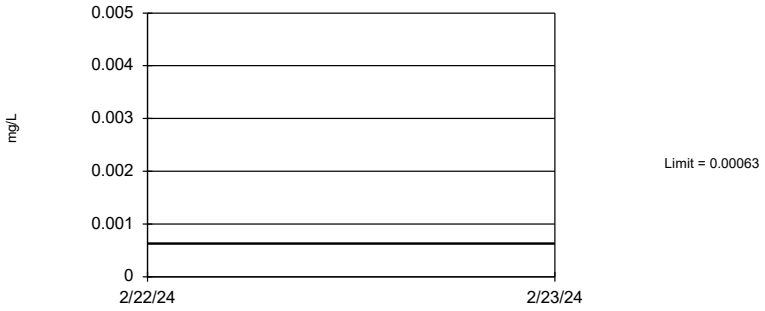


Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 461 background values. 80.04% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Beryllium Analysis Run 4/25/2024 2:47 PM View: Appendix IV - UTLs
Plant Yates Data: Plant Yates AMA-R6

Tolerance Limit

Interwell Non-parametric

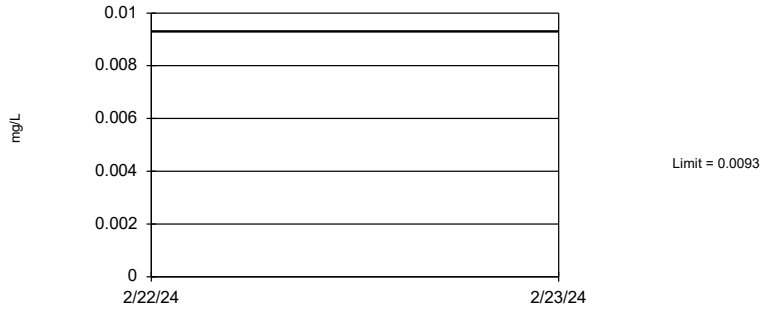


Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 461 background values. 95.01% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Cadmium Analysis Run 4/25/2024 2:47 PM View: Appendix IV - UTLs
Plant Yates Data: Plant Yates AMA-R6

Tolerance Limit

Interwell Non-parametric

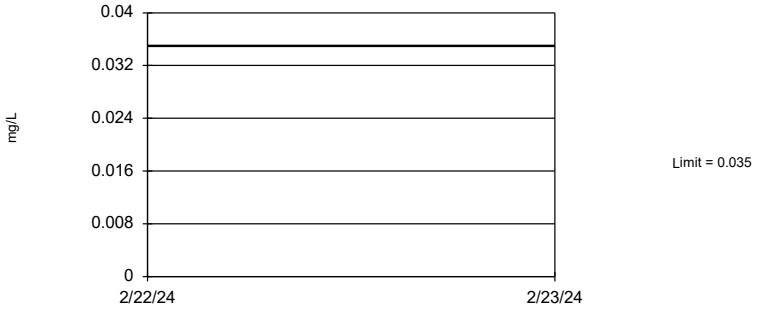


Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 429 background values. 81.59% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Chromium Analysis Run 4/25/2024 2:47 PM View: Appendix IV - UTLs
Plant Yates Data: Plant Yates AMA-R6

Tolerance Limit

Interwell Non-parametric

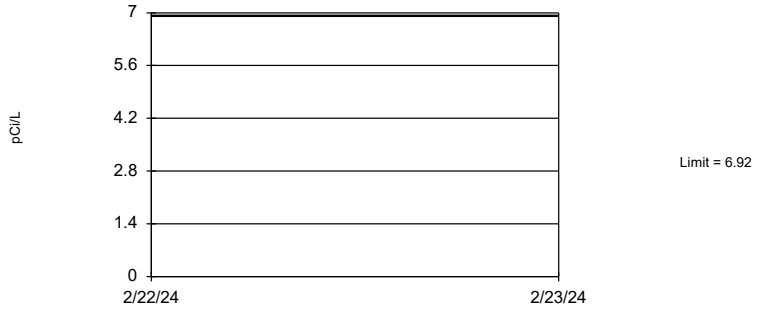


Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 471 background values. 68.79% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Cobalt Analysis Run 4/25/2024 2:47 PM View: Appendix IV - UTLs
Plant Yates Data: Plant Yates AMA-R6

Tolerance Limit

Interwell Non-parametric

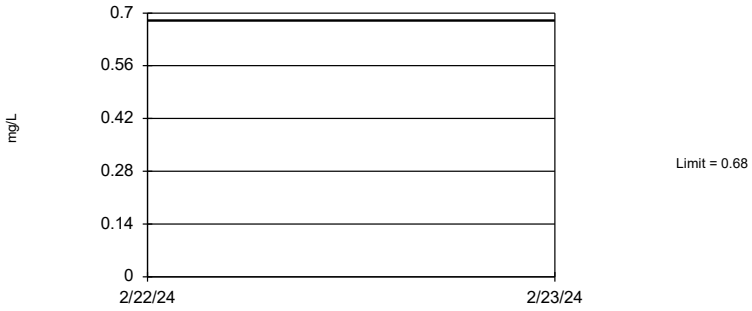


Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 456 background values. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Combined Radium 226 + 228 Analysis Run 4/25/2024 2:47 PM View: Appendix IV - UTLs
Plant Yates Data: Plant Yates AMA-R6

Tolerance Limit

Interwell Non-parametric

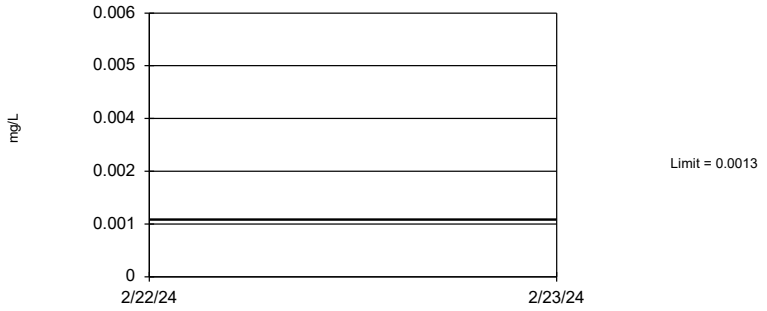


Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 476 background values. 63.45% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Fluoride Analysis Run 4/25/2024 2:47 PM View: Appendix IV - UTLs
Plant Yates Data: Plant Yates AMA-R6

Tolerance Limit

Interwell Non-parametric

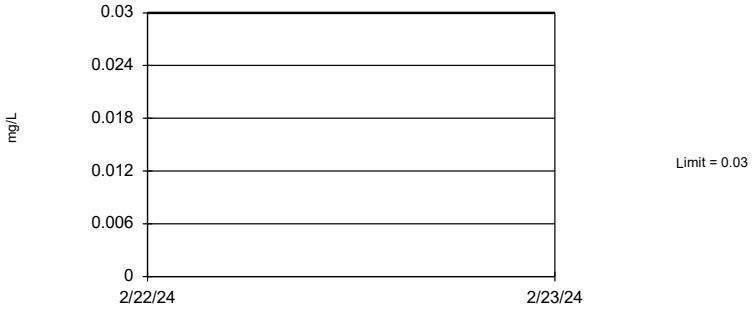


Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 431 background values. 87.24% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Lead Analysis Run 4/25/2024 2:47 PM View: Appendix IV - UTLs
Plant Yates Data: Plant Yates AMA-R6

Tolerance Limit

Interwell Non-parametric

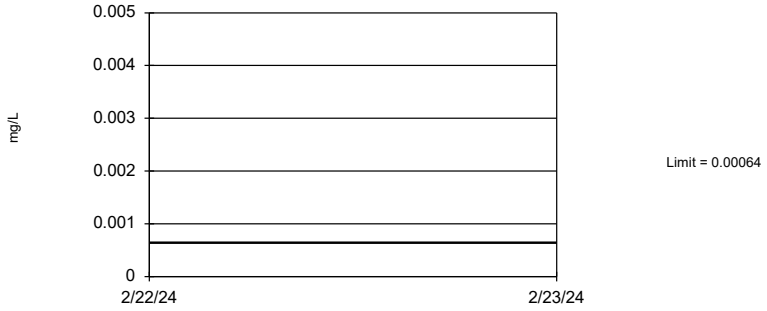


Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 456 background values. 27.19% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Lithium Analysis Run 4/25/2024 2:48 PM View: Appendix IV - UTLs
Plant Yates Data: Plant Yates AMA-R6

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 385 background values. 89.35% 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 4/25/2024 2:48 PM View: Appendix IV - UTLs
Plant Yates Data: Plant Yates AMA-R6

Tolerance Limit

Interwell Non-parametric

Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 420 background values. 61.19% 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 4/25/2024 2:48 PM View: Appendix IV - UTLs
Plant Yates Data: Plant Yates AMA-R6

Tolerance Limit

Interwell Non-parametric

Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 459 background values. 92.81% 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 4/25/2024 2:48 PM View: Appendix IV - UTLs
Plant Yates Data: Plant Yates AMA-R6

Tolerance Limit

Interwell Non-parametric

Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 395 background values. 97.47% 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 4/25/2024 2:48 PM View: Appendix IV - UTLs
Plant Yates Data: Plant Yates AMA-R6

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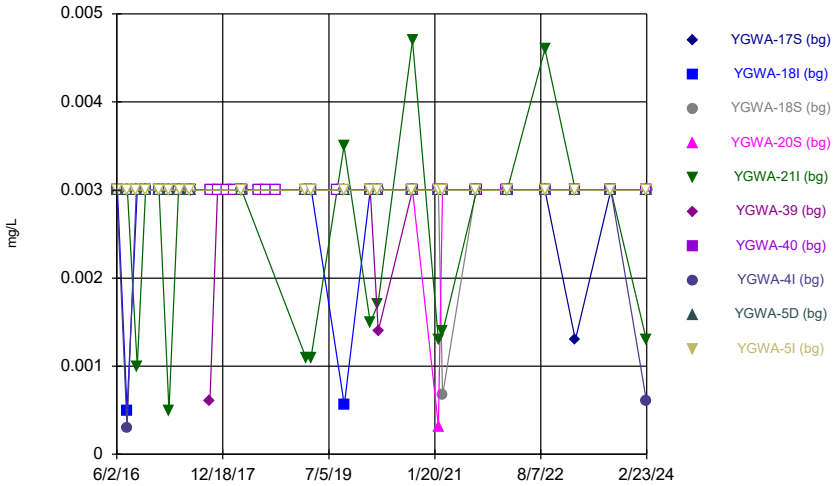
Hollow symbols indicate censored values.

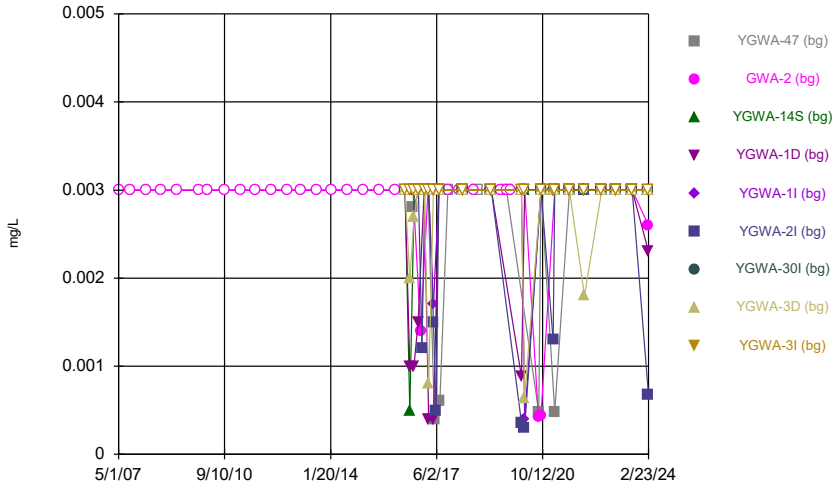
Time Series



Constituent: Antimony Analysis Run 4/25/2024 2:49 PM View: Appendix IV - UTLs
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

Time Series



Constituent: Antimony Analysis Run 4/25/2024 2:49 PM View: Appendix IV - UTLs
Plant Yates Data: Plant Yates AMA-R6

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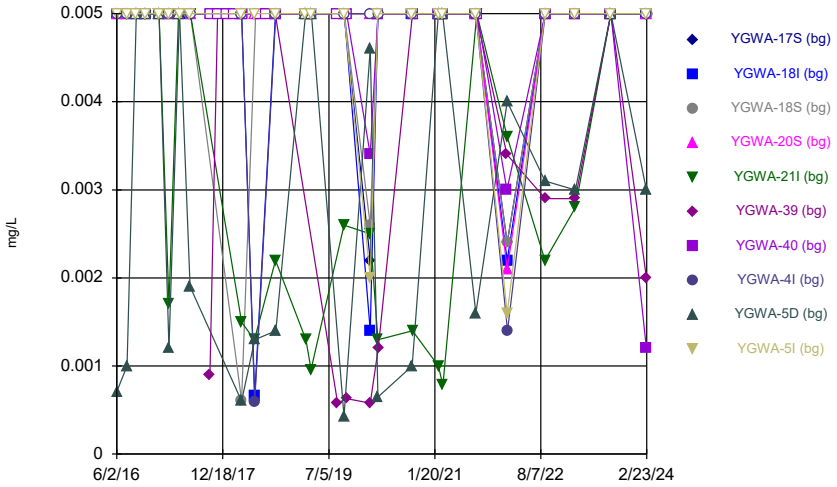
Hollow symbols indicate censored values.

Time Series



Constituent: Arsenic Analysis Run 4/25/2024 2:49 PM View: Appendix IV - UTLs
Plant Yates Data: Plant Yates AMA-R6

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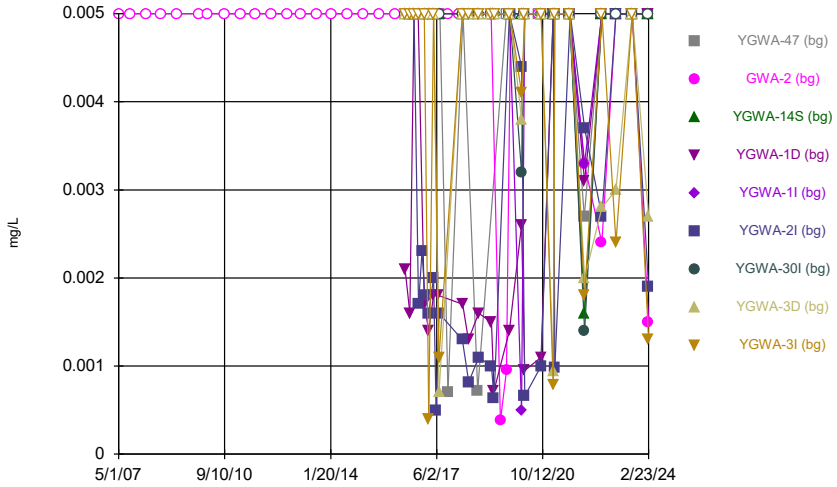
Hollow symbols indicate censored values.

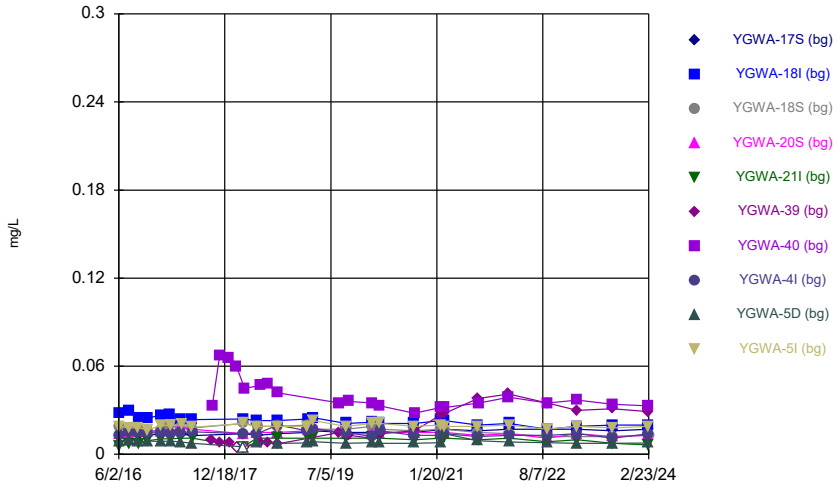
Time Series



Constituent: Arsenic Analysis Run 4/25/2024 2:49 PM View: Appendix IV - UTLs
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

Time Series



Constituent: Barium Analysis Run 4/25/2024 2:49 PM View: Appendix IV - UTLs
Plant Yates Data: Plant Yates AMA-R6

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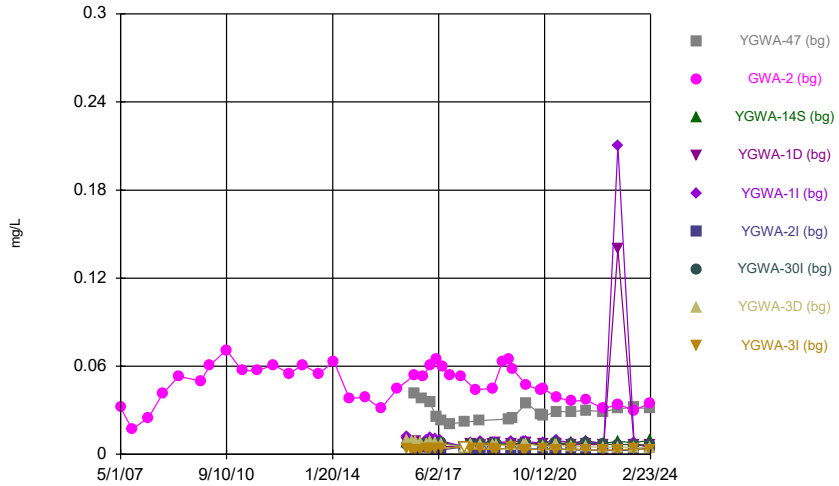
Hollow symbols indicate censored values.

Time Series



Constituent: Barium Analysis Run 4/25/2024 2:49 PM View: Appendix IV - UTLs
Plant Yates Data: Plant Yates AMA-R6

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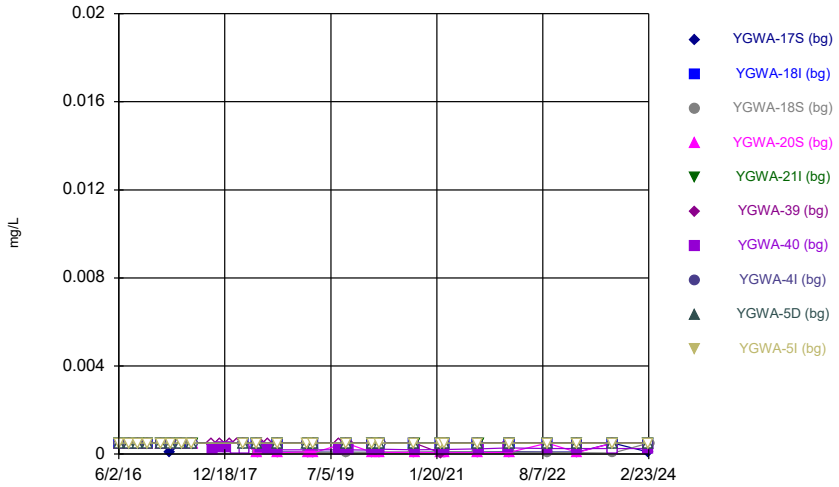
Hollow symbols indicate censored values.

Time Series



Constituent: Beryllium Analysis Run 4/25/2024 2:49 PM View: Appendix IV - UTLs
Plant Yates Data: Plant Yates AMA-R6

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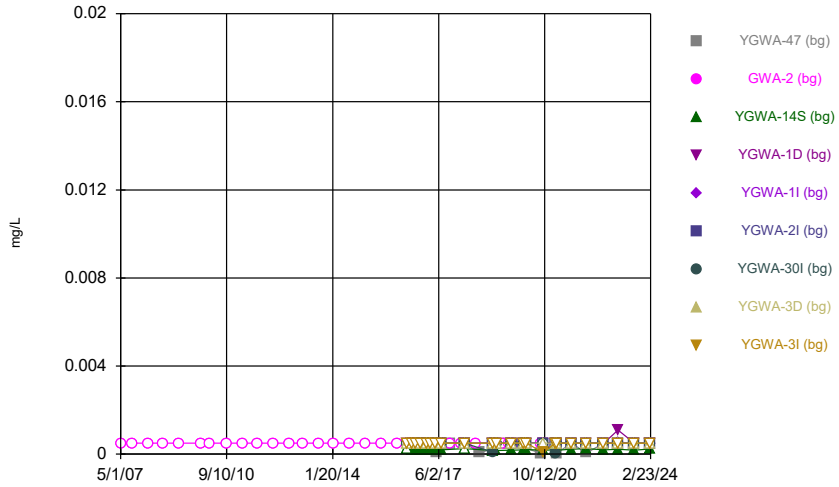
Hollow symbols indicate censored values.

Time Series



Constituent: Beryllium Analysis Run 4/25/2024 2:49 PM View: Appendix IV - UTLs
Plant Yates Data: Plant Yates AMA-R6

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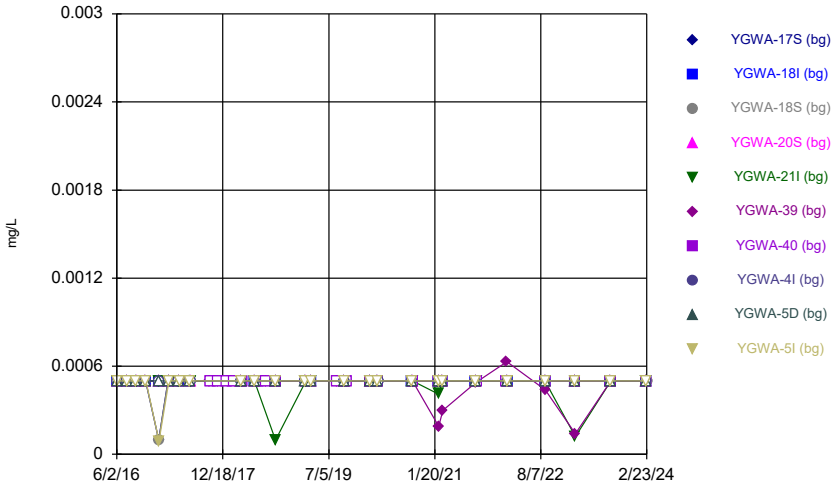
Hollow symbols indicate censored values.

Time Series



Constituent: Cadmium Analysis Run 4/25/2024 2:49 PM View: Appendix IV - UTLs
Plant Yates Data: Plant Yates AMA-R6

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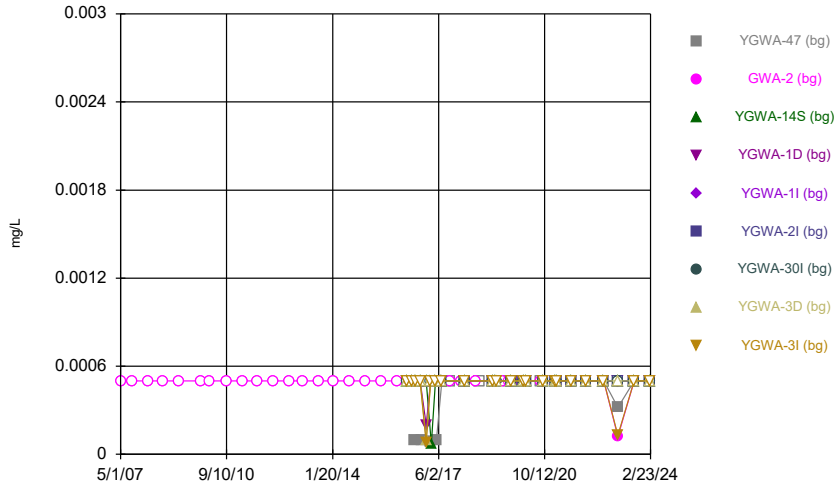
Hollow symbols indicate censored values.

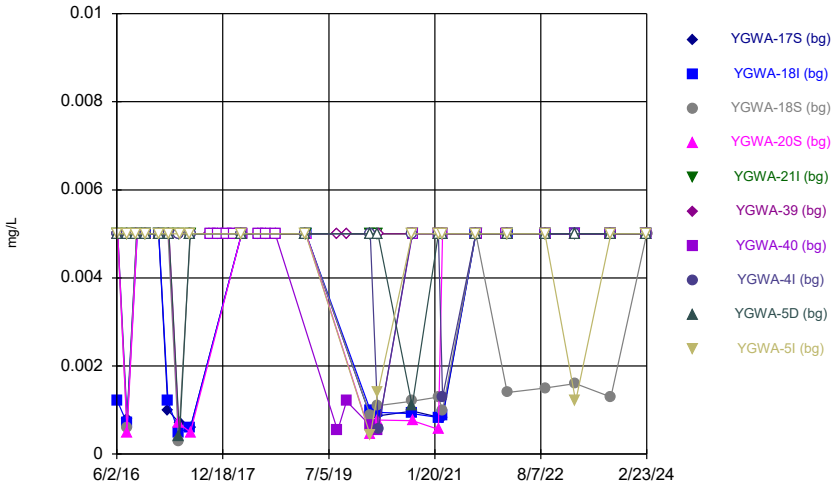
Time Series



Constituent: Cadmium Analysis Run 4/25/2024 2:49 PM View: Appendix IV - UTLs
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

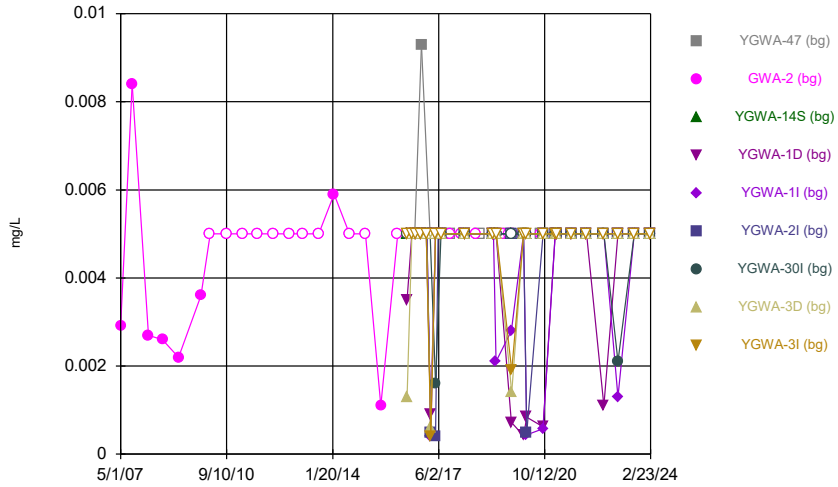
Time Series



Constituent: Chromium Analysis Run 4/25/2024 2:49 PM View: Appendix IV - UTLs
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

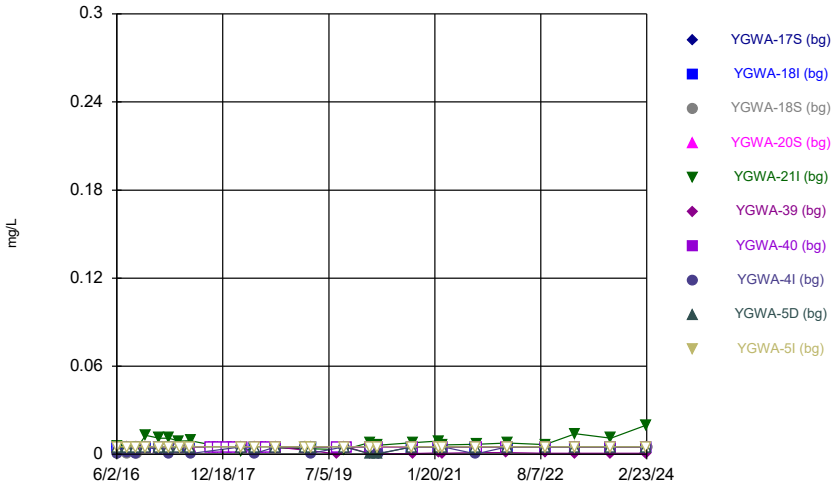
Time Series



Constituent: Chromium Analysis Run 4/25/2024 2:49 PM View: Appendix IV - UTLs
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

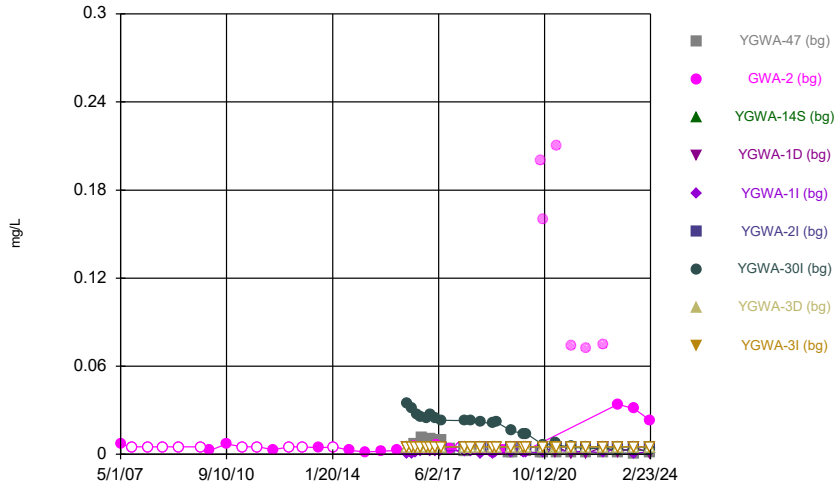
Time Series



Constituent: Cobalt Analysis Run 4/25/2024 2:49 PM View: Appendix IV - UTLs
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

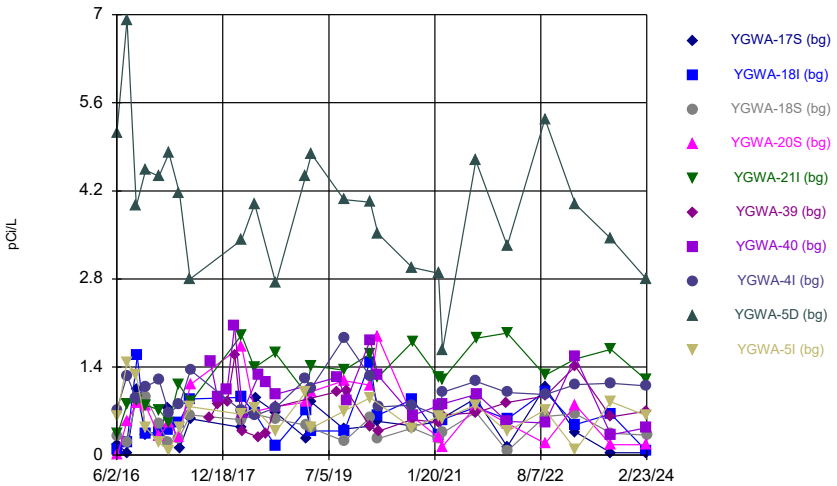
Time Series



Constituent: Cobalt Analysis Run 4/25/2024 2:49 PM View: Appendix IV - UTLs
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG

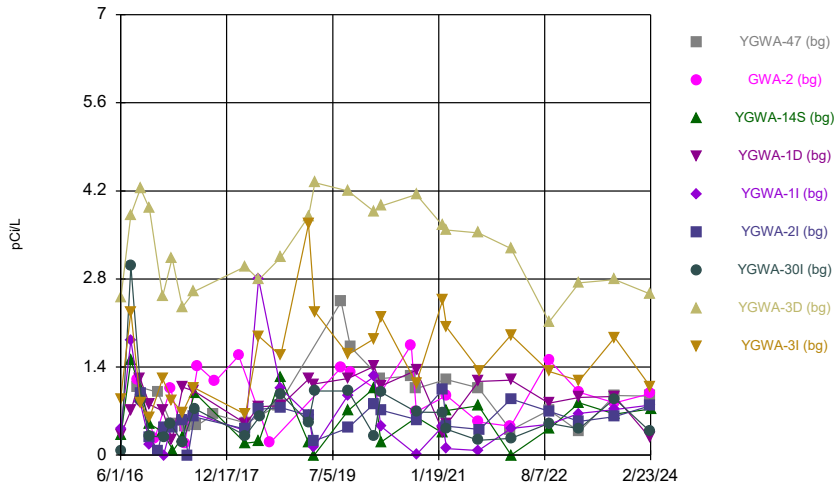
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 4/25/2024 2:49 PM View: Appendix IV - UTLs
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG

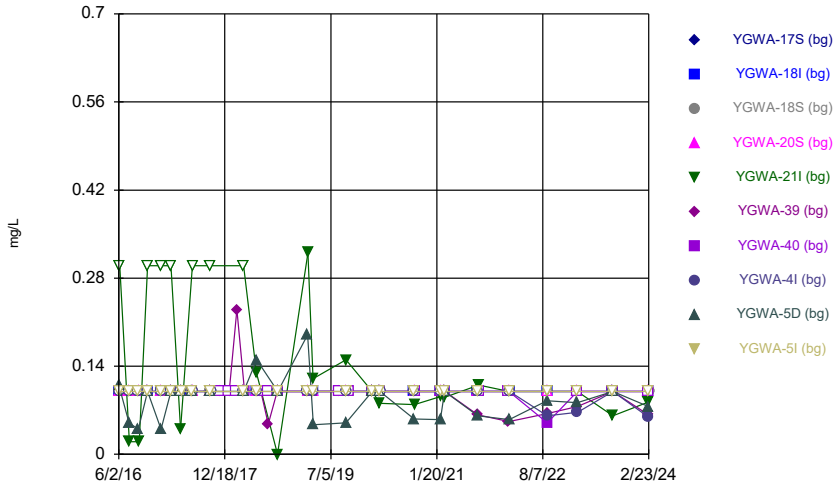
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 4/25/2024 2:49 PM View: Appendix IV - UTLs
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

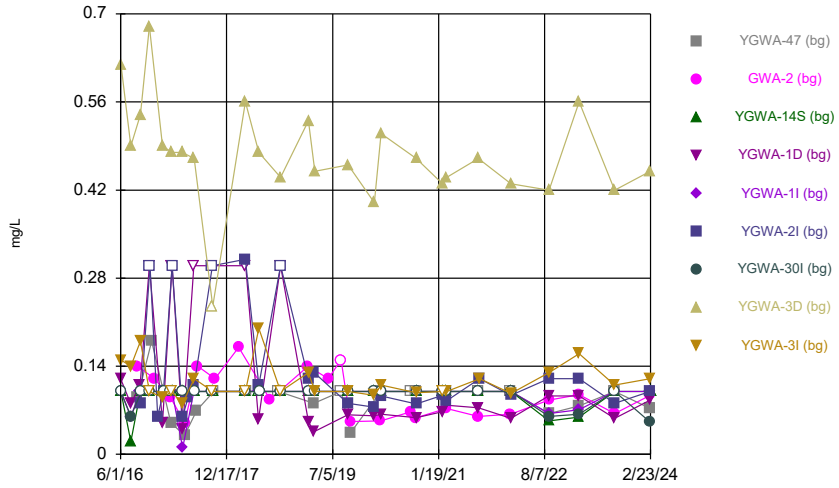
Time Series



Constituent: Fluoride Analysis Run 4/25/2024 2:49 PM View: Appendix IV - UTLs
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

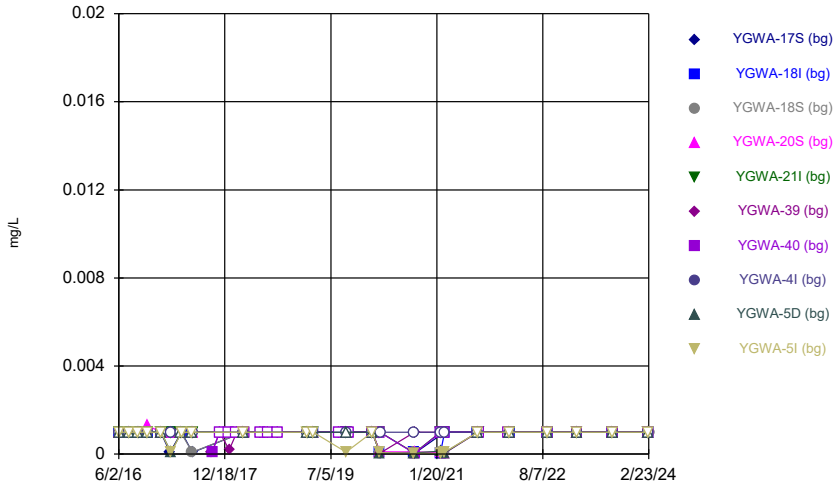
Time Series



Constituent: Fluoride Analysis Run 4/25/2024 2:49 PM View: Appendix IV - UTLs
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

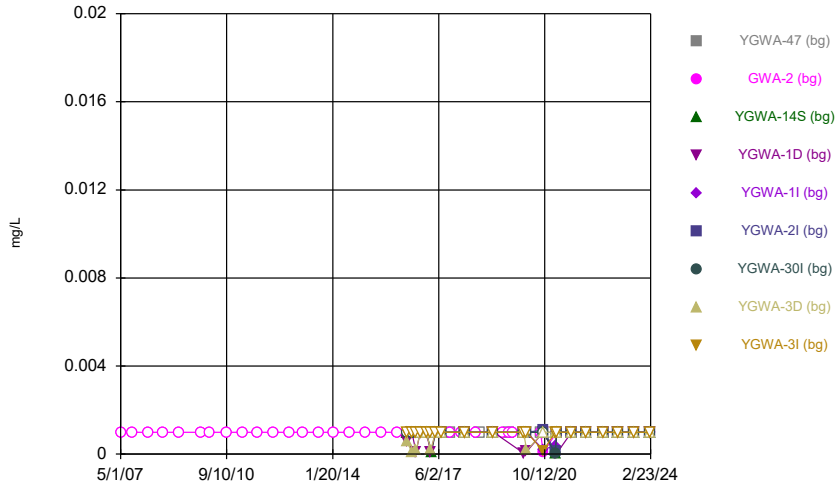
Time Series



Constituent: Lead Analysis Run 4/25/2024 2:49 PM View: Appendix IV - UTLs
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

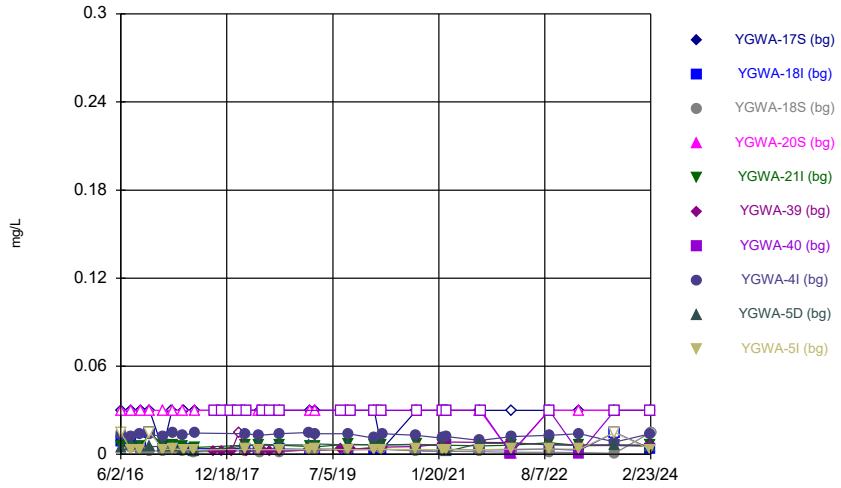
Time Series



Constituent: Lead Analysis Run 4/25/2024 2:49 PM View: Appendix IV - UTLs
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

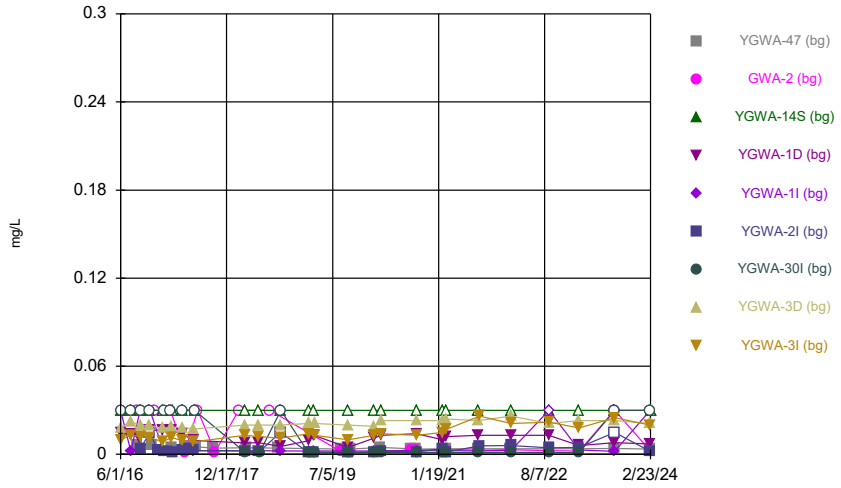
Time Series



Constituent: Lithium Analysis Run 4/25/2024 2:49 PM View: Appendix IV - UTLs
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

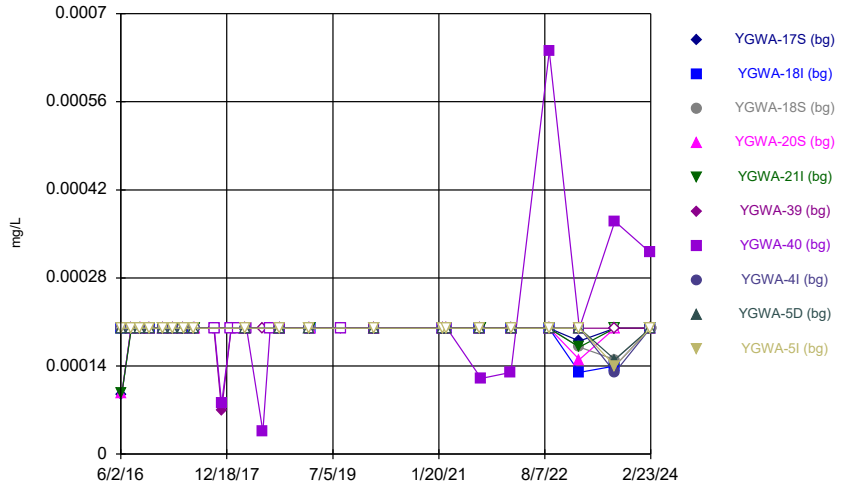
Time Series



Constituent: Lithium Analysis Run 4/25/2024 2:49 PM View: Appendix IV - UTLs
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

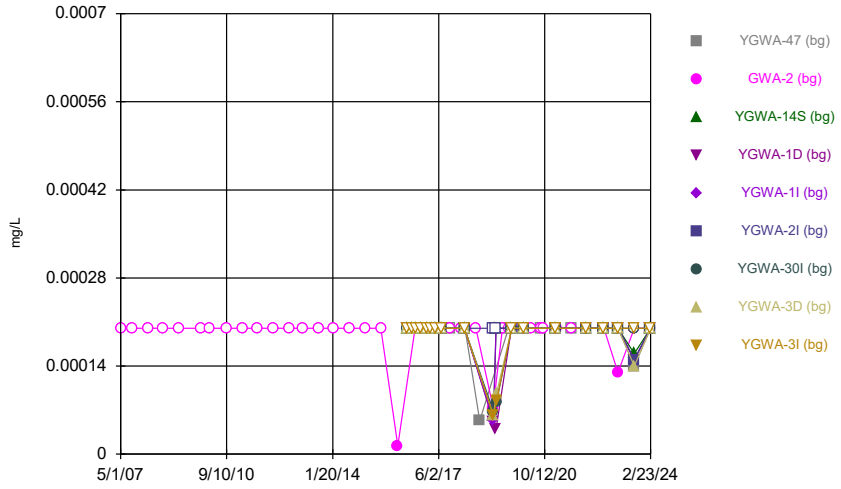
Time Series



Constituent: Mercury Analysis Run 4/25/2024 2:49 PM View: Appendix IV - UTLs
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

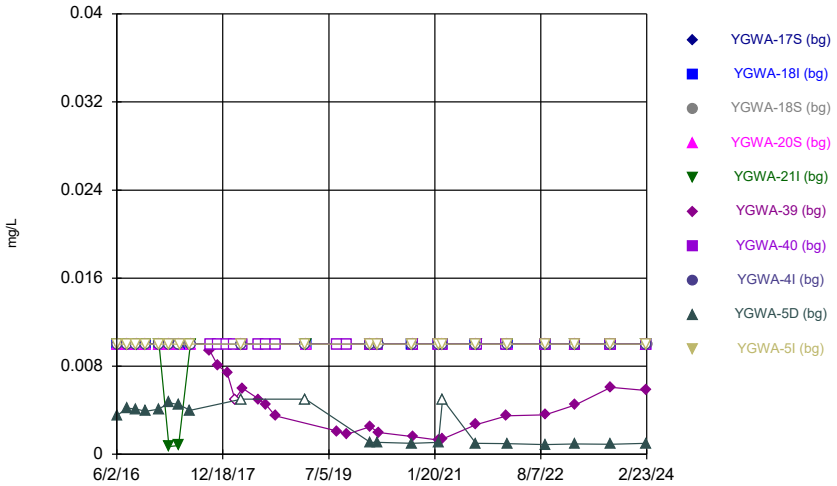
Time Series



Constituent: Mercury Analysis Run 4/25/2024 2:49 PM View: Appendix IV - UTLs
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

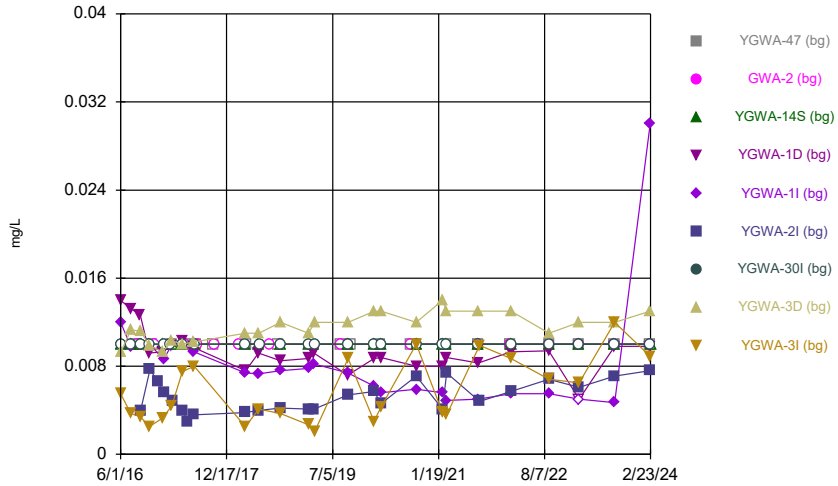
Time Series



Constituent: Molybdenum Analysis Run 4/25/2024 2:49 PM View: Appendix IV - UTLs
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

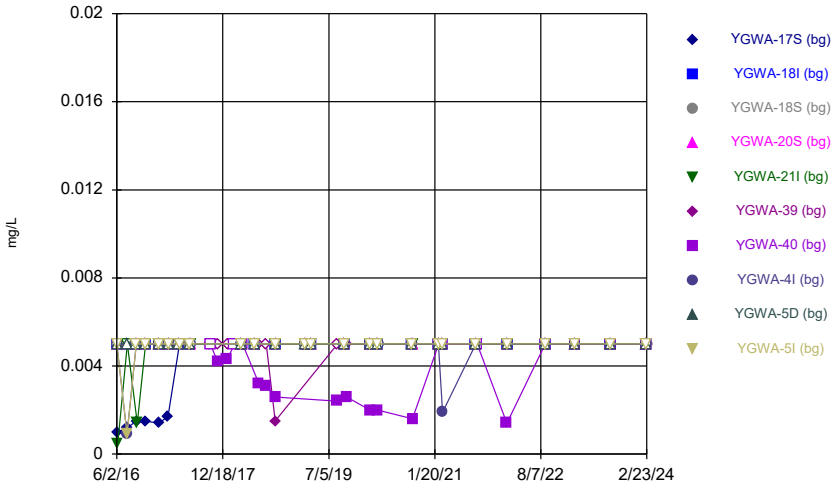
Time Series



Constituent: Molybdenum Analysis Run 4/25/2024 2:49 PM View: Appendix IV - UTLs
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

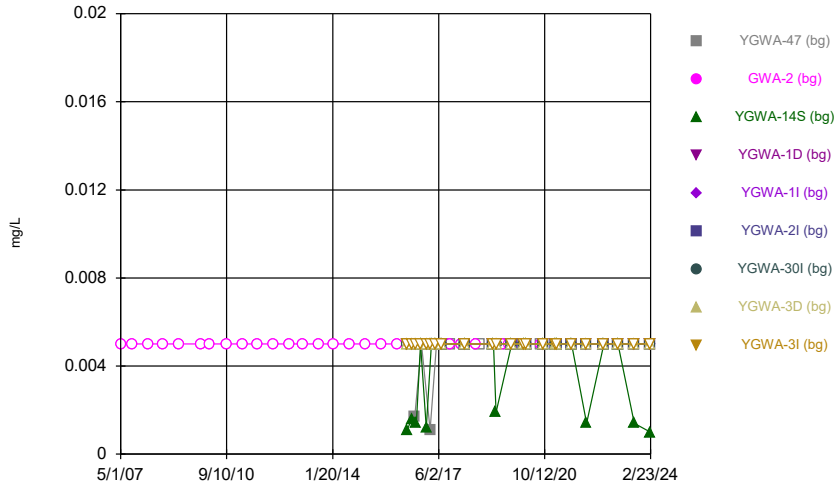
Time Series



Constituent: Selenium Analysis Run 4/25/2024 2:49 PM View: Appendix IV - UTLs
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

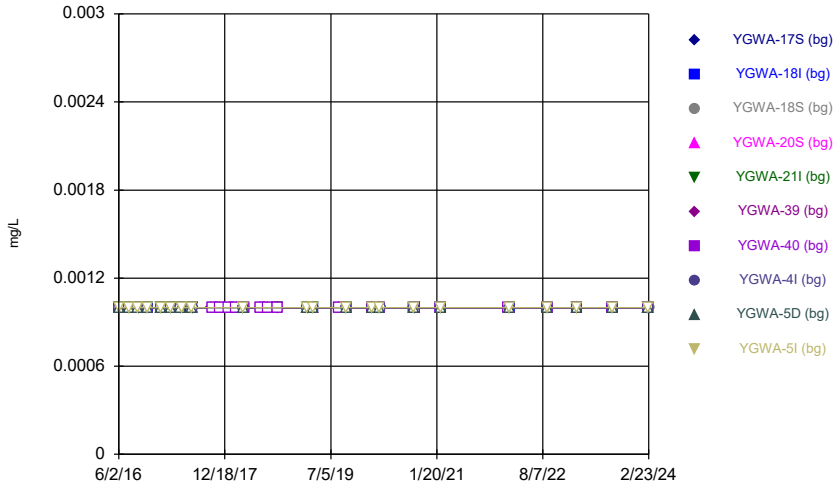
Time Series



Constituent: Selenium Analysis Run 4/25/2024 2:49 PM View: Appendix IV - UTLs
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

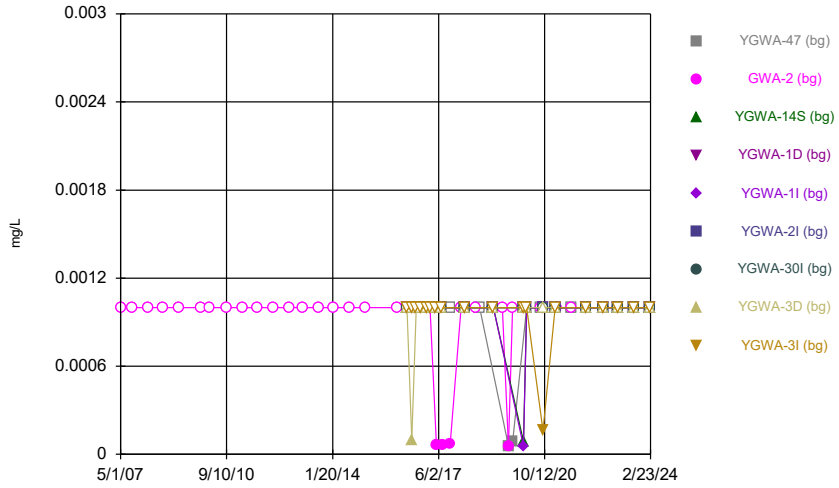
Time Series



Constituent: Thallium Analysis Run 4/25/2024 2:49 PM View: Appendix IV - UTLs
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

Time Series



Constituent: Thallium Analysis Run 4/25/2024 2:49 PM View: Appendix IV - UTLs
Plant Yates Data: Plant Yates AMA-R6

FIGURE G.

YATES AMA-R6 GWPS				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.0047	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.21	2
Beryllium, Total (mg/L)	0.004		0.0011	0.004
Cadmium, Total (mg/L)	0.005		0.00063	0.005
Chromium, Total (mg/L)	0.1		0.0093	0.1
Cobalt, Total (mg/L)		0.006	0.035	0.035
Combined Radium, Total (pCi/L)	5		6.92	6.92
Fluoride, Total (mg/L)	4		0.68	4
Lead, Total (mg/L)		0.015	0.0013	0.015
Lithium, Total (mg/L)		0.04	0.03	0.04
Mercury, Total (mg/L)	0.002		0.00064	0.002
Molybdenum, Total (mg/L)		0.1	0.03	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.

Confidence Intervals Summary Table - Significant Results

Plant Yates Data: Plant Yates AMA-R6 Printed 4/25/2024, 4:22 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cobalt (mg/L)	**YAMW-3**	**0.16**	**0.051**	**0.035**	**Yes**	**5**	**0.095**	**0.05098**	**0**	**None**	**No**	**0.031**	**NP (selected)**
Lithium (mg/L)	**YGWC-42**	**0.05767**	**0.04858**	**0.04**	**Yes**	**8**	**0.05313**	**0.004291**	**0**	**None**	**No**	**0.01**	**Param.**
Selenium (mg/L)	**PZ-37**	**0.2691**	**0.19**	**0.05**	**Yes**	**17**	**0.2295**	**0.06315**	**0**	**None**	**No**	**0.01**	**Param.**
Selenium (mg/L)	**YGWC-38**	**0.07101**	**0.05024**	**0.05**	**Yes**	**8**	**0.06063**	**0.009797**	**0**	**None**	**No**	**0.01**	**Param.**

Confidence Intervals Summary Table - All Results

Plant Yates Data: Plant Yates AMA-R6 Printed 4/25/2024, 4:22 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	PZ-35	0.003	0.003	0.006	No	11	0.002763	0.0007869	90.91	None	No	0.006	NP (NDs)
Antimony (mg/L)	PZ-37	0.003	0.0014	0.006	No	17	0.002627	0.000851	82.35	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-37D	0.003	0.0015	0.006	No	6	0.00275	0.0006124	83.33	None	No	0.0155	NP (NDs)
Antimony (mg/L)	YAMW-1	0.003	0.0016	0.006	No	11	0.004515	0.006844	54.55	None	No	0.006	NP (NDs)
Antimony (mg/L)	YAMW-4	0.003	0.00062	0.006	No	9	0.002263	0.001113	66.67	None	No	0.002	NP (NDs)
Antimony (mg/L)	YAMW-5	0.003	0.00033	0.006	No	9	0.002703	0.00089	88.89	None	No	0.002	NP (NDs)
Antimony (mg/L)	YGWC-23S	0.003	0.00085	0.006	No	22	0.002666	0.0008638	86.36	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-24SB	0.003	0.0009	0.006	No	21	0.0029	0.0004583	95.24	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-36A	0.0041	0.0016	0.006	No	22	0.003818	0.005542	54.55	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-38	0.003	0.0015	0.006	No	19	0.002529	0.0009603	78.95	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-41	0.003	0.0014	0.006	No	19	0.002916	0.0003671	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-42	0.003	0.00053	0.006	No	19	0.00287	0.0005667	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-43	0.003	0.0026	0.006	No	19	0.002837	0.0006189	89.47	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-49	0.003	0.0011	0.006	No	19	0.00277	0.0006955	89.47	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-35	0.005	0.00096	0.01	No	12	0.003854	0.001764	66.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-37	0.005	0.0011	0.01	No	17	0.00282	0.001915	41.18	None	No	0.01	NP (normality)
Arsenic (mg/L)	PZ-37D	0.005	0.0014	0.01	No	6	0.0044	0.00147	83.33	None	No	0.0155	NP (NDs)
Arsenic (mg/L)	PZ-51	0.005	0.0013	0.01	No	5	0.00426	0.001655	80	None	No	0.031	NP (NDs)
Arsenic (mg/L)	PZ-52D	0.00343	0.0005037	0.01	No	5	0.00318	0.001825	40	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	YAMW-1	0.005	0.0034	0.01	No	12	0.004642	0.0008691	83.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YAMW-3	0.005	0.0015	0.01	No	5	0.00406	0.001522	60	None	No	0.031	NP (NDs)
Arsenic (mg/L)	YAMW-4	0.005	0.00079	0.01	No	9	0.003232	0.001906	44.44	None	No	0.002	NP (normality)
Arsenic (mg/L)	YAMW-5	0.005	0.00095	0.01	No	9	0.003306	0.00181	44.44	None	No	0.002	NP (normality)
Arsenic (mg/L)	YGWC-23S	0.005	0.0025	0.01	No	24	0.004737	0.0009098	91.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-24SB	0.005	0.0035	0.01	No	23	0.00467	0.0009232	86.96	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-36A	0.005	0.0047	0.01	No	24	0.004118	0.001731	75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-38	0.001228	0.0007661	0.01	No	20	0.002323	0.001851	30	Kaplan-Meier	ln(x)	0.01	Param.
Arsenic (mg/L)	YGWC-41	0.005	0.001	0.01	No	20	0.003256	0.002041	55	Kaplan-Meier	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-42	0.002209	0.001396	0.01	No	20	0.002543	0.001402	20	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	YGWC-43	0.005	0.0033	0.01	No	20	0.004135	0.00163	75	Kaplan-Meier	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-49	0.005	0.001	0.01	No	19	0.00434	0.001567	84.21	Kaplan-Meier	No	0.01	NP (NDs)
Barium (mg/L)	PZ-35	0.1223	0.03888	2	No	12	0.08342	0.06041	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	PZ-37	0.05	0.03178	2	No	17	0.04089	0.01454	0	None	No	0.01	Param.
Barium (mg/L)	PZ-37D	0.02967	0.01033	2	No	6	0.02	0.007043	0	None	No	0.01	Param.
Barium (mg/L)	PZ-51	0.01729	0.01231	2	No	5	0.0148	0.001483	0	None	No	0.01	Param.
Barium (mg/L)	PZ-52D	0.0316	0.00445	2	No	5	0.01582	0.009293	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	YAMW-1	0.08025	0.04275	2	No	12	0.0615	0.02389	0	None	No	0.01	Param.
Barium (mg/L)	YAMW-2	0.009069	0.006953	2	No	9	0.008011	0.001096	0	None	No	0.01	Param.
Barium (mg/L)	YAMW-3	0.04751	0.01849	2	No	5	0.033	0.00866	0	None	No	0.01	Param.
Barium (mg/L)	YAMW-4	0.021	0.003	2	No	9	0.007378	0.007517	0	None	No	0.002	NP (normality)
Barium (mg/L)	YAMW-5	0.057	0.034	2	No	9	0.03911	0.007219	0	None	No	0.002	NP (normality)
Barium (mg/L)	YGWC-23S	0.04869	0.03662	2	No	24	0.04105	0.01336	0	None	x^2	0.01	Param.
Barium (mg/L)	YGWC-24SB	0.025	0.019	2	No	23	0.02211	0.00453	0	None	No	0.01	NP (normality)
Barium (mg/L)	YGWC-36A	0.05769	0.03386	2	No	24	0.05173	0.03773	0	None	ln(x)	0.01	Param.
Barium (mg/L)	YGWC-38	0.0218	0.01695	2	No	20	0.01938	0.004263	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-41	0.02733	0.02019	2	No	20	0.02376	0.006288	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-42	0.04116	0.0283	2	No	20	0.03473	0.01132	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-43	0.0329	0.02009	2	No	20	0.0265	0.01128	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-49	0.07598	0.06539	2	No	19	0.07069	0.009043	0	None	No	0.01	Param.
Beryllium (mg/L)	PZ-35	0.0007754	0.000319	0.004	No	13	0.0005938	0.0003567	15.38	Kaplan-Meier	sqrt(x)	0.01	Param.
Beryllium (mg/L)	PZ-37	0.0011	0.00025	0.004	No	17	0.0005518	0.0003913	11.76	None	No	0.01	NP (normality)
Beryllium (mg/L)	PZ-51	0.003468	0.002332	0.004	No	5	0.0029	0.0003391	0	None	No	0.01	Param.
Beryllium (mg/L)	PZ-52D	0.0005	0.000059	0.004	No	5	0.000329	0.0002343	60	None	No	0.031	NP (NDs)
Beryllium (mg/L)	YAMW-1	0.0002287	0.00009357	0.004	No	12	0.0002786	0.0001836	33.33	Kaplan-Meier	x^(1/3)	0.01	Param.
Beryllium (mg/L)	YAMW-2	0.0005	0.000051	0.004	No	9	0.0002079	0.0002192	33.33	None	No	0.002	NP (normality)
Beryllium (mg/L)	YAMW-3	0.0002161	0.00002792	0.004	No	5	0.000122	0.00005614	0	None	No	0.01	Param.

Confidence Intervals Summary Table - All Results

Plant Yates Data: Plant Yates AMA-R6 Printed 4/25/2024, 4:22 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	YAMW-5	0.000147	0.0001062	0.004	No	10	0.0001266	0.0000229	0	None	No	0.01	Param.
Beryllium (mg/L)	YGWC-23S	0.00023	0.00009	0.004	No	24	0.000209	0.0001601	20.83	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-24SB	0.0001586	0.0001049	0.004	No	23	0.0001352	0.00005416	13.04	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	YGWC-36A	0.0004195	0.0002059	0.004	No	24	0.0003837	0.0003681	4.167	None	ln(x)	0.01	Param.
Beryllium (mg/L)	YGWC-38	0.004837	0.003143	0.004	No	20	0.00399	0.001492	0	None	No	0.01	Param.
Beryllium (mg/L)	YGWC-41	0.0037	0.0014	0.004	No	20	0.0025	0.001062	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-42	0.0005	0.000067	0.004	No	20	0.0003292	0.0002149	60	None	No	0.01	NP (NDs)
Beryllium (mg/L)	YGWC-43	0.0003894	0.000246	0.004	No	20	0.0003935	0.0001299	30	Kaplan-Meier	No	0.01	Param.
Beryllium (mg/L)	YGWC-49	0.00013	0.0001	0.004	No	19	0.0001237	0.00003639	5.263	None	No	0.01	NP (normality)
Cadmium (mg/L)	PZ-35	0.0005	0.00016	0.005	No	12	0.0003742	0.0001604	58.33	None	No	0.01	NP (NDs)
Cadmium (mg/L)	PZ-37	0.0007848	0.0004435	0.005	No	17	0.0006141	0.0002724	11.76	None	No	0.01	Param.
Cadmium (mg/L)	PZ-51	0.0019	0.0017	0.005	No	5	0.00176	0.00008944	0	None	No	0.031	NP (normality)
Cadmium (mg/L)	YAMW-1	0.0005	0.00014	0.005	No	12	0.0002867	0.0001607	33.33	None	No	0.01	NP (normality)
Cadmium (mg/L)	YAMW-2	0.0005	0.00015	0.005	No	9	0.0004611	0.0001167	88.89	None	No	0.002	NP (NDs)
Cadmium (mg/L)	YAMW-3	0.0005	0.00035	0.005	No	5	0.000466	0.00006542	60	None	No	0.031	NP (NDs)
Cadmium (mg/L)	YAMW-5	0.00046	0.00018	0.005	No	9	0.0002411	0.00008507	0	None	No	0.002	NP (normality)
Cadmium (mg/L)	YGWC-23S	0.0005	0.00007	0.005	No	24	0.0004821	0.00008777	95.83	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-36A	0.0005	0.00012	0.005	No	9	0.0004578	0.0001267	88.89	None	No	0.002	NP (NDs)
Cadmium (mg/L)	YGWC-38	0.0024	0.00142	0.005	No	20	0.00191	0.0008623	0	None	No	0.01	Param.
Cadmium (mg/L)	YGWC-41	0.0005	0.00018	0.005	No	20	0.000333	0.0001596	45	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-42	0.0005	0.0002	0.005	No	20	0.0003955	0.00016	55	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-49	0.0005	0.00007	0.005	No	19	0.0004774	0.00009865	94.74	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-35	0.005	0.00061	0.1	No	10	0.002971	0.002159	50	None	No	0.011	NP (normality)
Chromium (mg/L)	PZ-37	0.005	0.0019	0.1	No	17	0.004388	0.001372	82.35	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-52D	0.005	0.0011	0.1	No	5	0.00422	0.001744	80	None	No	0.031	NP (NDs)
Chromium (mg/L)	YAMW-1	0.005	0.00074	0.1	No	10	0.002938	0.002182	50	None	No	0.011	NP (normality)
Chromium (mg/L)	YAMW-2	0.005	0.00071	0.1	No	9	0.003446	0.001946	55.56	None	No	0.002	NP (NDs)
Chromium (mg/L)	YAMW-3	0.005	0.0011	0.1	No	5	0.00422	0.001744	80	None	No	0.031	NP (NDs)
Chromium (mg/L)	YAMW-4	0.005	0.00057	0.1	No	9	0.004508	0.001477	88.89	None	No	0.002	NP (NDs)
Chromium (mg/L)	YAMW-5	0.005	0.0016	0.1	No	9	0.004622	0.001133	88.89	None	No	0.002	NP (NDs)
Chromium (mg/L)	YGWC-23S	0.005	0.0011	0.1	No	20	0.003627	0.001935	65	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-24SB	0.005	0.0011	0.1	No	19	0.004376	0.001481	84.21	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-36A	0.005	0.0035	0.1	No	20	0.004324	0.001477	80	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-38	0.005	0.00065	0.1	No	20	0.004557	0.001362	90	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-41	0.005	0.00039	0.1	No	20	0.004769	0.001031	95	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-42	0.005	0.0013	0.1	No	20	0.004366	0.001554	85	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-43	0.005	0.00074	0.1	No	20	0.004128	0.001789	80	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-49	0.002	0.0016	0.1	No	18	0.001967	0.0007956	5.556	None	No	0.01	NP (normality)
Cobalt (mg/L)	PZ-35	0.0059	0.005	0.035	No	12	0.005075	0.0002598	91.67	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-37	0.008837	0.003309	0.035	No	17	0.006724	0.004956	0	None	x^(1/3)	0.01	Param.
Cobalt (mg/L)	PZ-51	0.03383	0	0.035	No	5	0.01376	0.01198	0	None	No	0.01	Param.
Cobalt (mg/L)	PZ-52D	0.003714	0.0008059	0.035	No	5	0.00226	0.0008678	0	None	No	0.01	Param.
Cobalt (mg/L)	YAMW-1	0.01819	0.004993	0.035	No	13	0.01259	0.01013	15.38	Kaplan-Meier	sqrt(x)	0.01	Param.
Cobalt (mg/L)	YAMW-2	0.004187	0.0004804	0.035	No	9	0.002312	0.002283	11.11	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	**YAMW-3**	**0.16**	**0.051**	**0.035**	**Yes**	**5**	**0.095**	**0.05098**	**0**	**None**	**No**	**0.031**	**NP (selected)**
Cobalt (mg/L)	YAMW-4	0.005	0.00041	0.035	No	9	0.001592	0.001942	22.22	None	No	0.002	NP (normality)
Cobalt (mg/L)	YAMW-5	0.005	0.00077	0.035	No	9	0.00453	0.00141	88.89	None	No	0.002	NP (NDs)
Cobalt (mg/L)	YGWC-36A	0.005	0.00086	0.035	No	24	0.004071	0.001852	79.17	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-41	0.005	0.0011	0.035	No	20	0.004119	0.001813	80	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-42	0.002154	0.001686	0.035	No	20	0.00192	0.0004124	5	None	No	0.01	Param.
Cobalt (mg/L)	YGWC-43	0.005	0.0005	0.035	No	20	0.002639	0.001942	35	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-49	0.005	0.0008	0.035	No	19	0.004079	0.001833	78.95	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	PZ-35	0.9078	0.3704	6.92	No	11	0.6391	0.3224	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-37	1.848	1.135	6.92	No	17	1.491	0.5692	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-37D	3.219	1.026	6.92	No	6	2.123	0.7982	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-51	0.964	0.389	6.92	No	5	0.7276	0.276	0	None	No	0.031	NP (selected)

Confidence Intervals Summary Table - All Results

Plant Yates Data: Plant Yates AMA-R6 Printed 4/25/2024, 4:22 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	PZ-52D	1.88	0.218	6.92	No	6	0.8755	0.6839	0	None	No	0.0155	NP (selected)
Combined Radium 226 + 228 (pCi/L)	YAMW-1	0.6632	0.3654	6.92	No	11	0.5143	0.1787	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YAMW-2	0.7776	0.1345	6.92	No	9	0.4561	0.333	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YAMW-3	2.77	0.973	6.92	No	5	1.579	0.8475	0	None	No	0.031	NP (selected)
Combined Radium 226 + 228 (pCi/L)	YAMW-4	0.9263	0.1797	6.92	No	9	0.553	0.3866	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YAMW-5	1.189	0.5776	6.92	No	9	0.8832	0.3166	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-23S	0.7615	0.3906	6.92	No	24	0.576	0.3634	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-24SB	0.7497	0.4698	6.92	No	23	0.6098	0.2676	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-36A	0.939	0.4907	6.92	No	24	0.7148	0.4393	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-38	1.102	0.5576	6.92	No	20	0.83	0.4797	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-41	1.225	0.608	6.92	No	20	0.9164	0.5432	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-42	2.377	1.06	6.92	No	20	1.718	1.16	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-43	3.993	1.983	6.92	No	20	2.988	1.771	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-49	1.017	0.5306	6.92	No	19	0.7737	0.4151	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-37	0.23	0.1	4	No	17	0.15	0.102	76.47	None	No	0.01	NP (NDs)
Fluoride (mg/L)	PZ-37D	0.3152	0.1214	4	No	6	0.2183	0.07055	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-51	0.1521	0.08666	4	No	5	0.1194	0.01954	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-52D	0.1208	0.03603	4	No	5	0.0784	0.02528	0	None	No	0.01	Param.
Fluoride (mg/L)	YAMW-2	0.1	0.05	4	No	9	0.086	0.02129	66.67	None	No	0.002	NP (NDs)
Fluoride (mg/L)	YAMW-3	0.09416	0.06434	4	No	5	0.0834	0.01286	20	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	YAMW-4	0.1019	0.05838	4	No	9	0.09978	0.02656	44.44	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	YAMW-5	0.1	0.05	4	No	9	0.08944	0.02098	77.78	Kaplan-Meier	No	0.002	NP (NDs)
Fluoride (mg/L)	YGWC-23S	0.1	0.057	4	No	25	0.09424	0.01928	84	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-24SB	0.1	0.098	4	No	24	0.09508	0.01657	87.5	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-36A	0.1	0.094	4	No	25	0.09424	0.02875	72	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-38	0.2	0.1	4	No	21	0.144	0.1026	71.43	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-41	0.11	0.1	4	No	21	0.1005	0.002182	90.48	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-42	0.1	0.07	4	No	21	0.08686	0.02384	71.43	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-43	0.1023	0.06036	4	No	21	0.1011	0.04729	19.05	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	YGWC-49	0.14	0.09	4	No	20	0.0995	0.02235	70	Kaplan-Meier	No	0.01	NP (NDs)
Lead (mg/L)	PZ-35	0.001	0.00015	0.015	No	11	0.0008397	0.0003569	81.82	None	No	0.006	NP (NDs)
Lead (mg/L)	PZ-37	0.001	0.0001	0.015	No	17	0.0007455	0.0004076	70.59	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-52D	0.0031	0.001	0.015	No	5	0.0015	0.000911	60	Kaplan-Meier	No	0.031	NP (NDs)
Lead (mg/L)	YAMW-1	0.001	0.001	0.015	No	11	0.0009264	0.0002442	90.91	None	No	0.006	NP (NDs)
Lead (mg/L)	YAMW-2	0.001	0.00008	0.015	No	9	0.0007989	0.0003991	77.78	None	No	0.002	NP (NDs)
Lead (mg/L)	YAMW-4	0.001	0.000096	0.015	No	9	0.0007684	0.0003648	66.67	None	No	0.002	NP (NDs)
Lead (mg/L)	YAMW-5	0.001	0.000041	0.015	No	9	0.0006916	0.000463	66.67	None	No	0.002	NP (NDs)
Lead (mg/L)	YGWC-23S	0.001	0.00044	0.015	No	22	0.0008557	0.0003197	81.82	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-24SB	0.001	0.00036	0.015	No	21	0.0008906	0.0002792	85.71	Kaplan-Meier	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-36A	0.0004454	0.0001752	0.015	No	22	0.0006332	0.0004257	36.36	Kaplan-Meier	sqrt(x)	0.01	Param.
Lead (mg/L)	YGWC-38	0.001	0.0001	0.015	No	20	0.000865	0.0003297	85	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-41	0.0011	0.0002	0.015	No	20	0.0008279	0.0003676	75	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-42	0.001	0.0002	0.015	No	20	0.0008196	0.0003713	80	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-43	0.001	0.00008	0.015	No	20	0.0009078	0.0002839	90	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-49	0.001	0.000059	0.015	No	19	0.0009505	0.0002159	94.74	None	No	0.01	NP (NDs)
Lithium (mg/L)	PZ-35	0.011	0.0011	0.04	No	12	0.003808	0.00443	8.333	None	No	0.01	NP (normality)
Lithium (mg/L)	PZ-37	0.02728	0.01915	0.04	No	17	0.02322	0.006491	5.882	None	No	0.01	Param.
Lithium (mg/L)	PZ-37D	0.01266	0.005139	0.04	No	6	0.0089	0.002738	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-51	0.006023	0.004137	0.04	No	5	0.00508	0.000563	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-52D	0.03285	0.01475	0.04	No	5	0.0238	0.005404	0	None	No	0.01	Param.
Lithium (mg/L)	YAMW-1	0.01963	0.009587	0.04	No	12	0.01461	0.006399	8.333	None	No	0.01	Param.
Lithium (mg/L)	YAMW-3	0.05269	0.03798	0.04	No	6	0.04533	0.005354	0	None	No	0.01	Param.
Lithium (mg/L)	YAMW-4	0.0353	0.026	0.04	No	9	0.03011	0.006585	0	None	x^4	0.01	Param.
Lithium (mg/L)	YAMW-5	0.01554	0.01335	0.04	No	9	0.01444	0.00113	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-23S	0.0026	0.0019	0.04	No	24	0.002896	0.002636	4.167	None	No	0.01	NP (normality)
Lithium (mg/L)	YGWC-36A	0.015	0.00086	0.04	No	9	0.002698	0.004622	11.11	None	No	0.002	NP (normality)

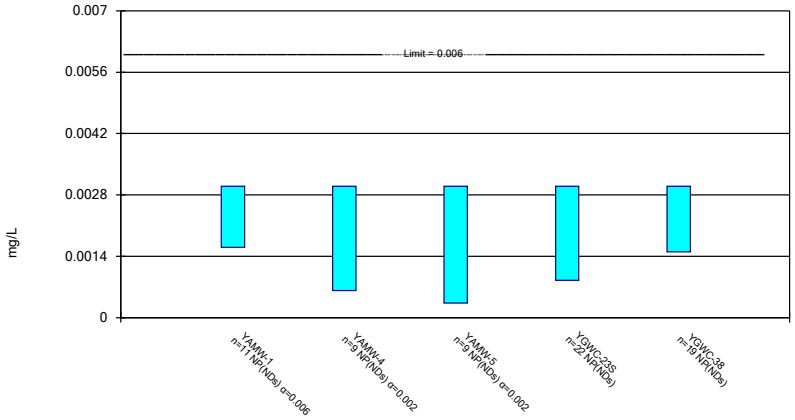
Confidence Intervals Summary Table - All Results

Plant Yates Data: Plant Yates AMA-R6 Printed 4/25/2024, 4:22 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	YGWC-38	0.00841	0.00692	0.04	No	20	0.007665	0.001311	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-41	0.0042	0.0021	0.04	No	20	0.003675	0.002823	5	None	No	0.01	NP (normality)
Lithium (mg/L)	**YGWC-42**	**0.05767**	**0.04858**	**0.04**	**Yes**	**8**	**0.05313**	**0.004291**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	YGWC-43	0.01758	0.01237	0.04	No	20	0.01498	0.004588	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-49	0.00376	0.003366	0.04	No	19	0.003563	0.000337	0	None	No	0.01	Param.
Mercury (mg/L)	PZ-37	0.0002	0.00019	0.002	No	17	0.0001912	0.00003389	88.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	YAMW-3	0.0002	0.00016	0.002	No	5	0.000192	0.00001789	80	None	No	0.031	NP (NDs)
Mercury (mg/L)	YGWC-23S	0.0002	0.00015	0.002	No	19	0.000192	0.00002548	89.47	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-38	0.0002	0.00008	0.002	No	17	0.0001834	0.0000476	88.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-41	0.0002	0.00006	0.002	No	17	0.0001918	0.00003395	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-42	0.0002	0.000048	0.002	No	17	0.0001911	0.00003687	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-43	0.0002	0.00009	0.002	No	17	0.0001848	0.00004337	88.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-49	0.0002	0.00014	0.002	No	16	0.0001876	0.00003692	87.5	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-35	0.01	0.01	0.1	No	10	0.00919	0.002561	90	None	No	0.011	NP (NDs)
Molybdenum (mg/L)	PZ-37	0.01	0.0016	0.1	No	17	0.006124	0.004248	52.94	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-37D	0.005604	0.001662	0.1	No	6	0.003633	0.001435	0	None	No	0.01	Param.
Molybdenum (mg/L)	PZ-52D	0.01208	0	0.1	No	5	0.00598	0.00364	0	None	No	0.01	Param.
Molybdenum (mg/L)	YAMW-1	0.01	0.0014	0.1	No	10	0.006199	0.004102	50	None	No	0.011	NP (normality)
Molybdenum (mg/L)	YAMW-3	0.008973	0.002427	0.1	No	5	0.0057	0.001953	0	None	No	0.01	Param.
Molybdenum (mg/L)	YAMW-4	0.007886	0.006283	0.1	No	9	0.007078	0.0009148	0	None	x^2	0.01	Param.
Molybdenum (mg/L)	YGWC-36A	0.01	0.0038	0.1	No	20	0.00795	0.003392	70	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-42	0.01	0.00081	0.1	No	20	0.003919	0.004133	30	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-43	0.01	0.0012	0.1	No	20	0.00471	0.004125	35	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-49	0.01	0.0007	0.1	No	18	0.009483	0.002192	94.44	None	No	0.01	NP (NDs)
Selenium (mg/L)	PZ-35	0.005	0.003	0.05	No	12	0.004117	0.001102	50	None	No	0.01	NP (normality)
Selenium (mg/L)	**PZ-37**	**0.2691**	**0.19**	**0.05**	**Yes**	**17**	**0.2295**	**0.06315**	**0**	**None**	**No**	**0.01**	**Param.**
Selenium (mg/L)	PZ-51	0.03002	0.02238	0.05	No	5	0.0262	0.00228	0	None	No	0.01	Param.
Selenium (mg/L)	PZ-52D	0.0128	0.0004768	0.05	No	5	0.00664	0.003678	0	None	No	0.01	Param.
Selenium (mg/L)	YAMW-1	0.004708	0.002901	0.05	No	12	0.004367	0.001128	41.67	Kaplan-Meier	x^3	0.01	Param.
Selenium (mg/L)	YAMW-3	0.023	0.005	0.05	No	6	0.008417	0.007214	66.67	Kaplan-Meier	No	0.0155	NP (NDs)
Selenium (mg/L)	YAMW-4	0.0185	0.004137	0.05	No	10	0.01398	0.007309	20	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	YAMW-5	0.05909	0.04376	0.05	No	10	0.0511	0.01009	0	None	x^2	0.01	Param.
Selenium (mg/L)	YGWC-23S	0.0381	0.02862	0.05	No	24	0.03336	0.009289	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-36A	0.005	0.0024	0.05	No	24	0.003529	0.001378	37.5	None	No	0.01	NP (normality)
Selenium (mg/L)	**YGWC-38**	**0.07101**	**0.05024**	**0.05**	**Yes**	**8**	**0.06063**	**0.009797**	**0**	**None**	**No**	**0.01**	**Param.**
Selenium (mg/L)	YGWC-41	0.05675	0.03543	0.05	No	20	0.04609	0.01877	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-42	0.05221	0.0381	0.05	No	20	0.04516	0.01243	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-49	0.008211	0.006452	0.05	No	19	0.007332	0.001503	5.263	None	No	0.01	Param.
Thallium (mg/L)	YGWC-49	0.001	0.00009	0.002	No	17	0.0009465	0.0002207	94.12	None	No	0.01	NP (NDs)

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Antimony Analysis Run 4/25/2024 4:15 PM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

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Non-Parametric Confidence Interval

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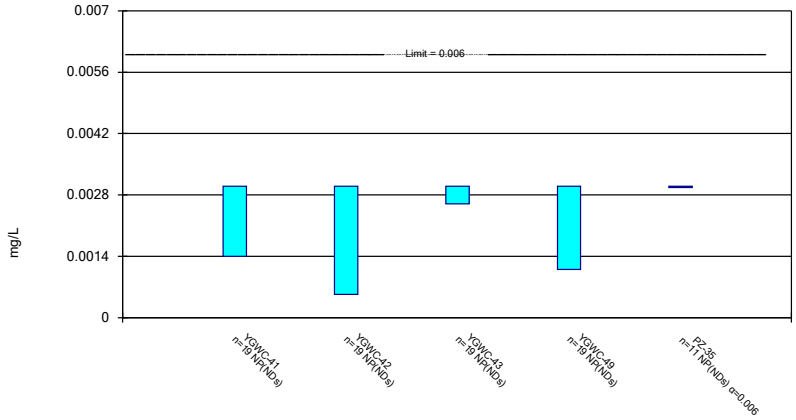

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Plant Yates Data: Plant Yates AMA-R6

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Non-Parametric Confidence Interval

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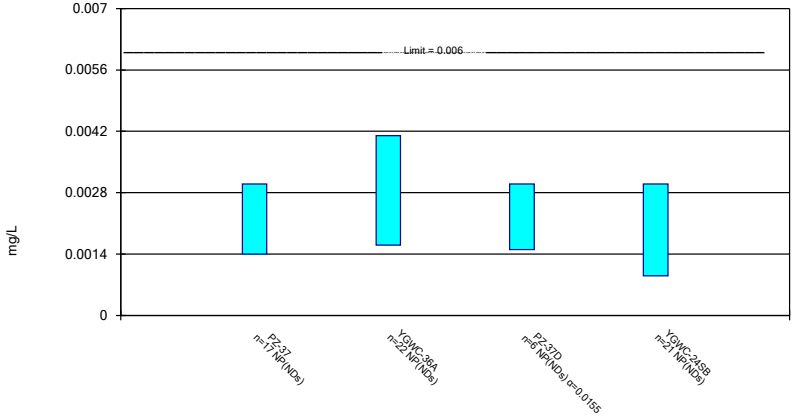

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Plant Yates Data: Plant Yates AMA-R6

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Non-Parametric Confidence Interval

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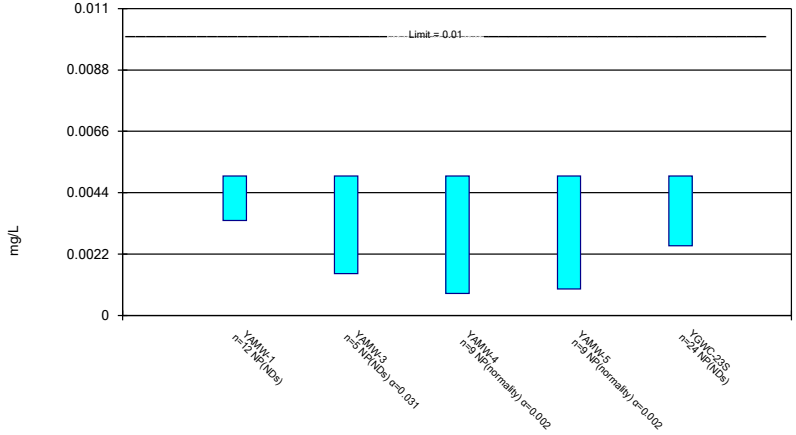

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Plant Yates Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

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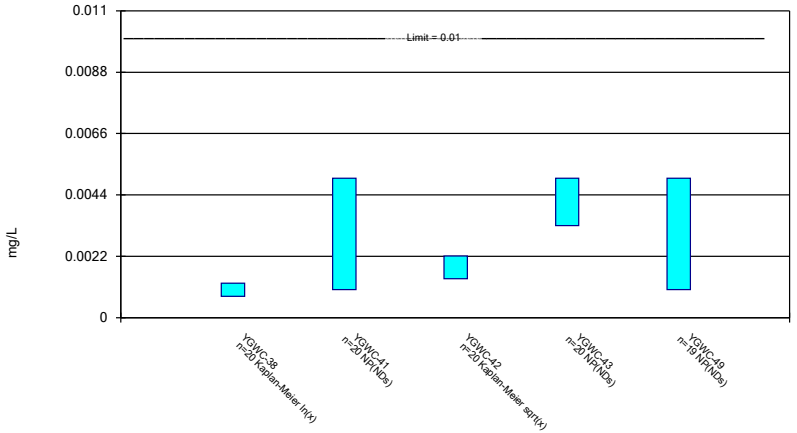

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Plant Yates Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

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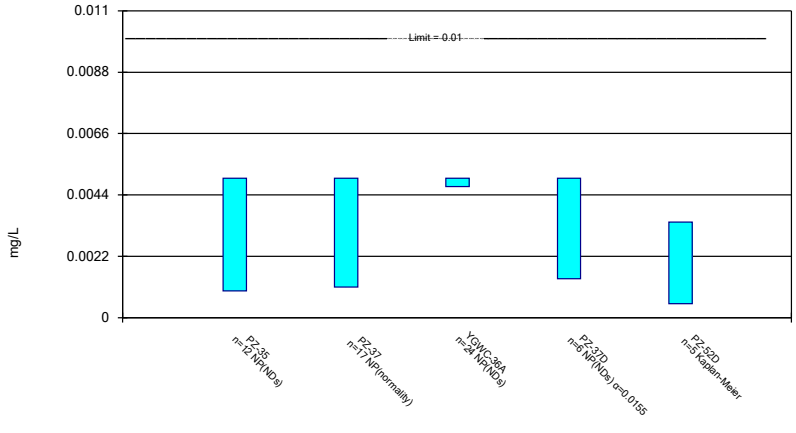

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Plant Yates Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

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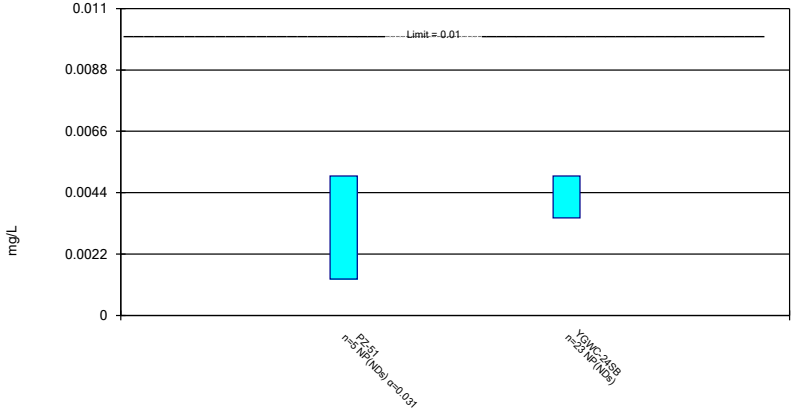

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Plant Yates Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

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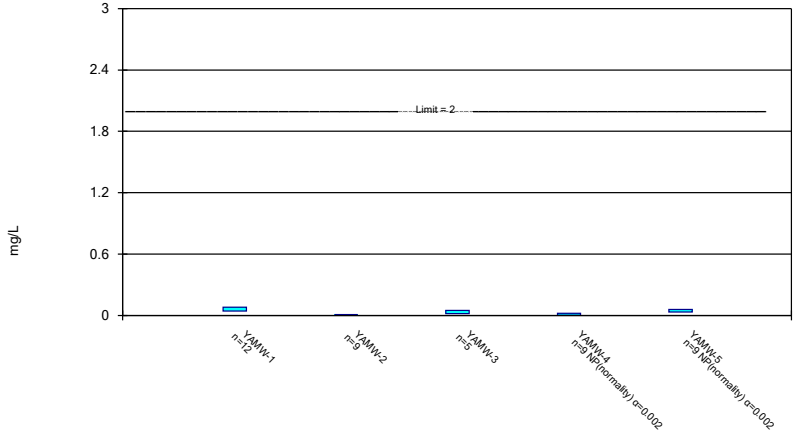

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Plant Yates Data: Plant Yates AMA-R6

Parametric Confidence Interval

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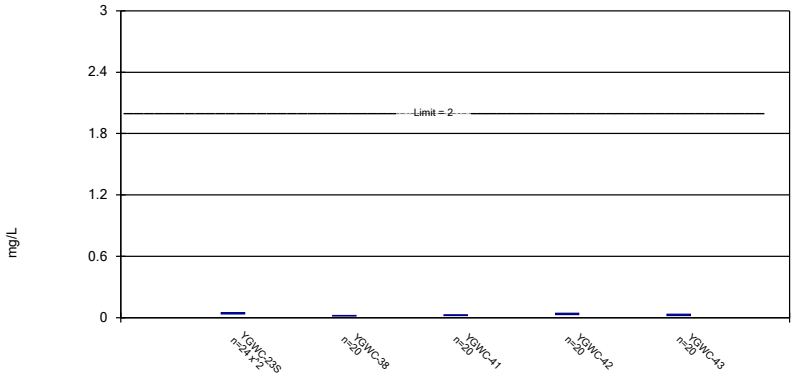

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Parametric Confidence Interval

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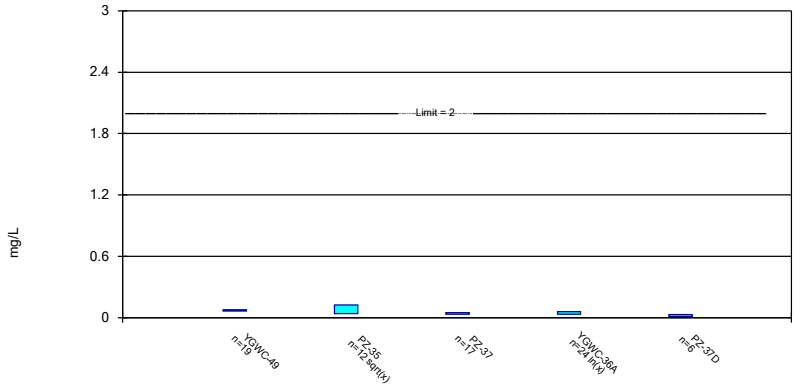

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Plant Yates Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

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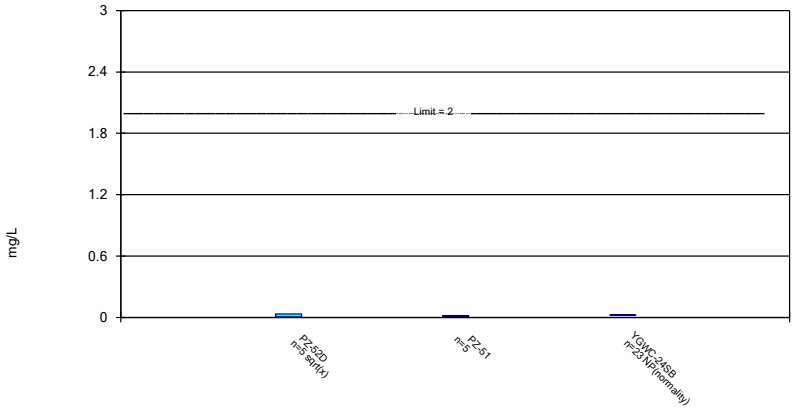
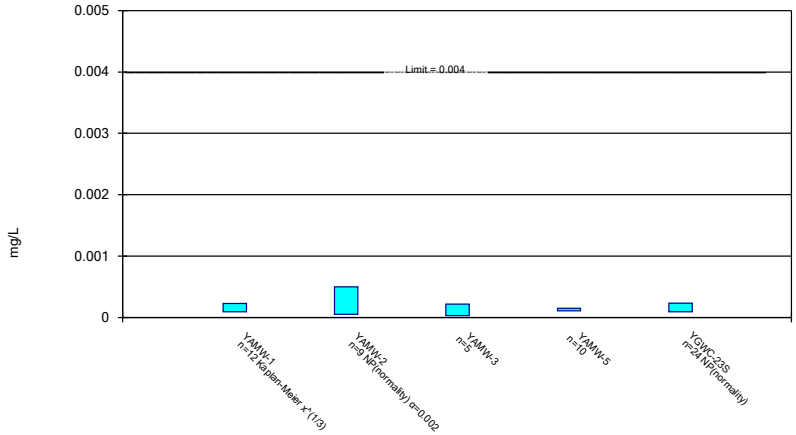


Constituent: Barium Analysis Run 4/25/2024 4:15 PM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

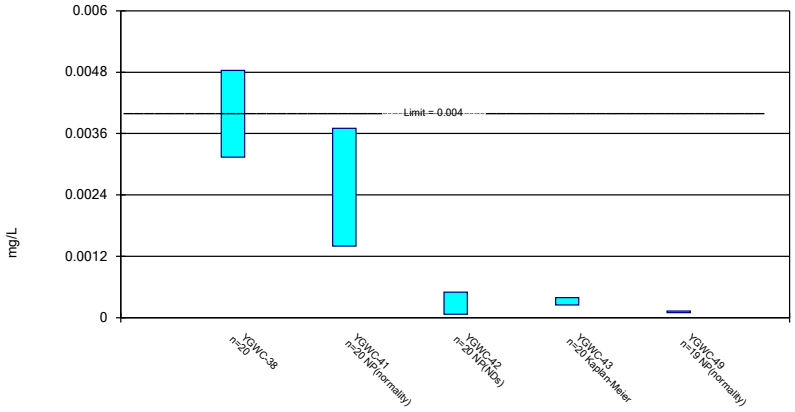
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 4/25/2024 4:15 PM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 4/25/2024 4:16 PM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

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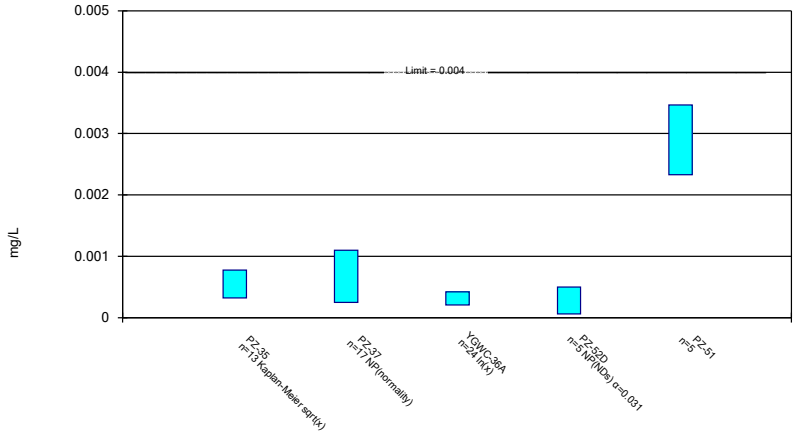
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 4/25/2024 4:16 PM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

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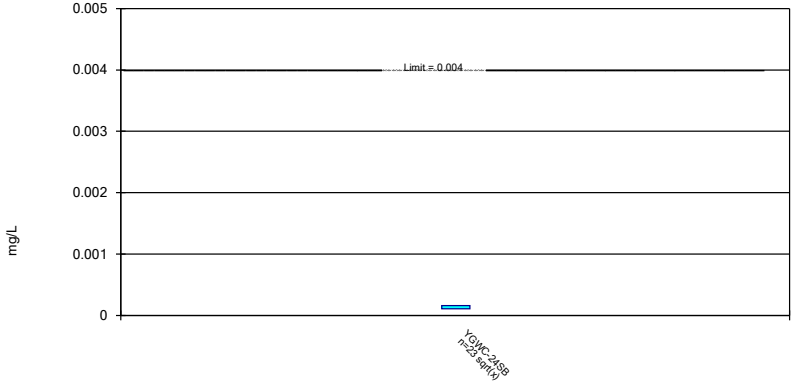
Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 4/25/2024 4:16 PM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

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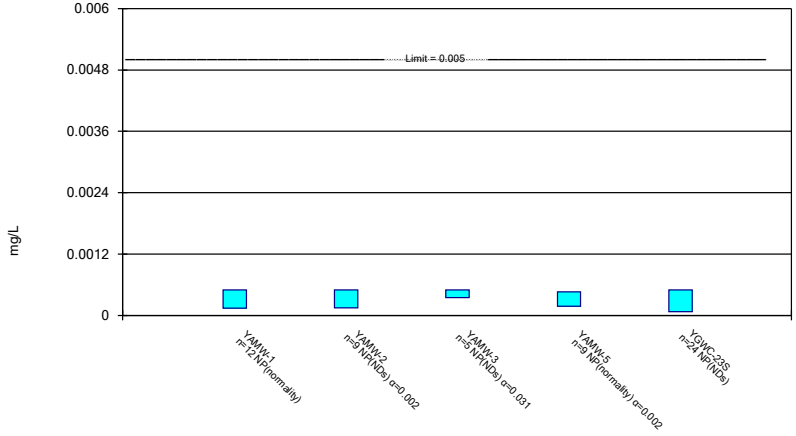
Non-Parametric Confidence Interval

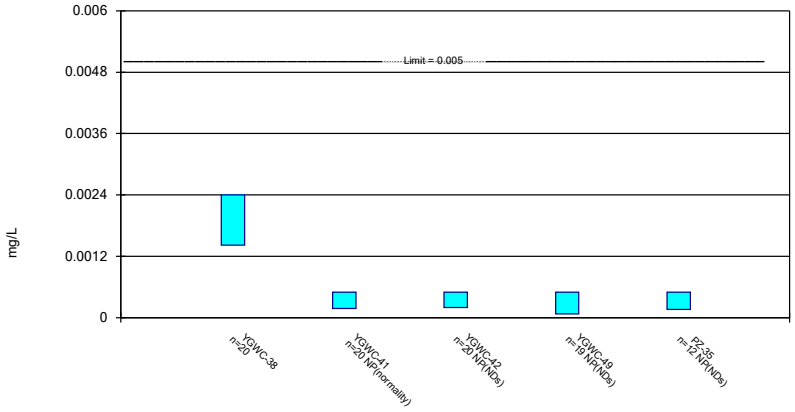
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Cadmium Analysis Run 4/25/2024 4:16 PM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 4/25/2024 4:16 PM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

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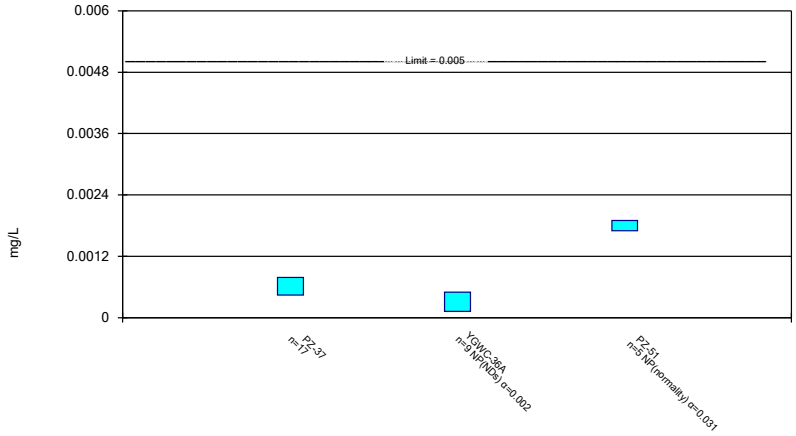
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 4/25/2024 4:16 PM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

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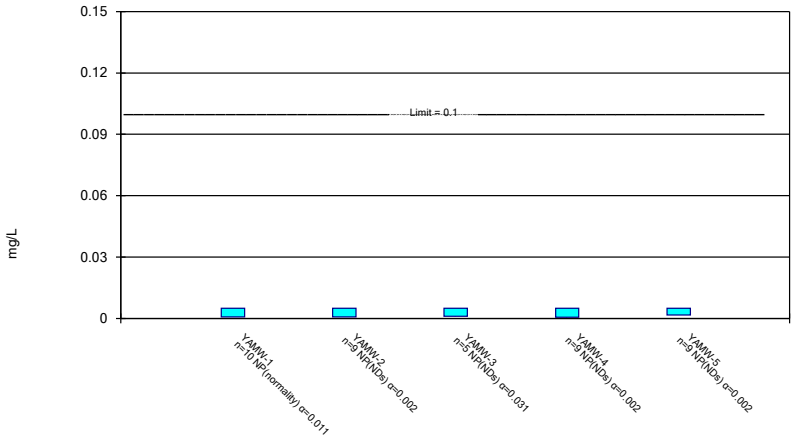
Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Chromium Analysis Run 4/25/2024 4:16 PM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

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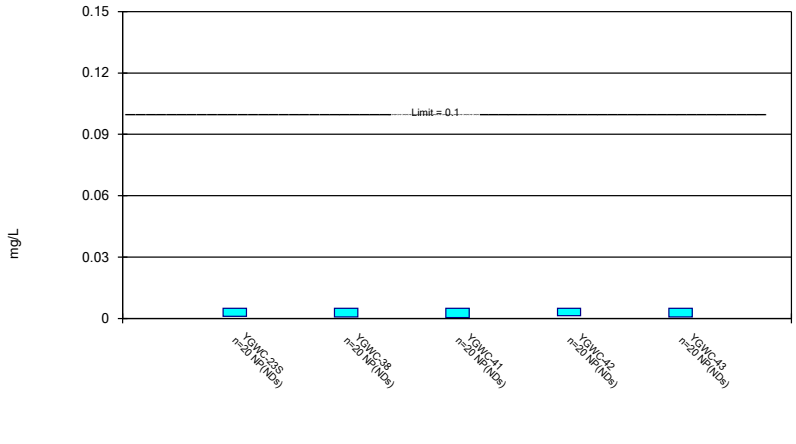
Non-Parametric Confidence Interval

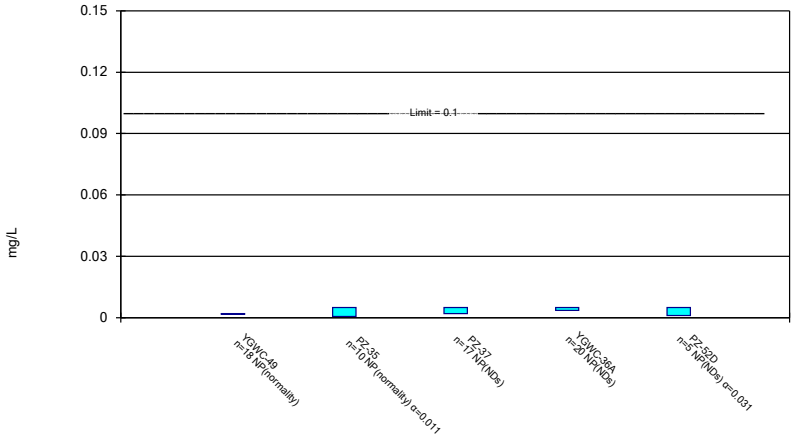
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 4/25/2024 4:16 PM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Chromium Analysis Run 4/25/2024 4:16 PM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

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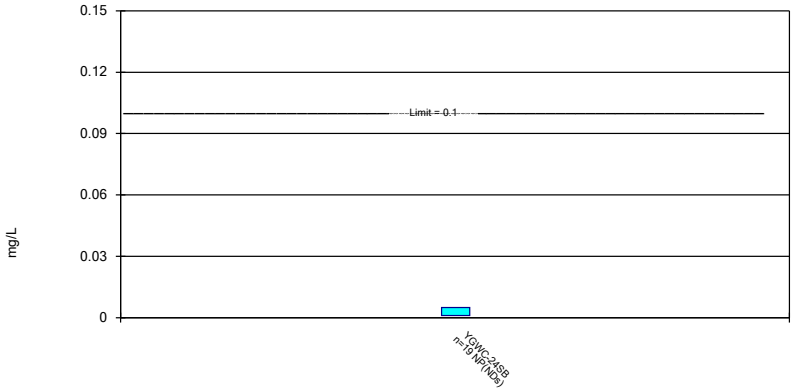
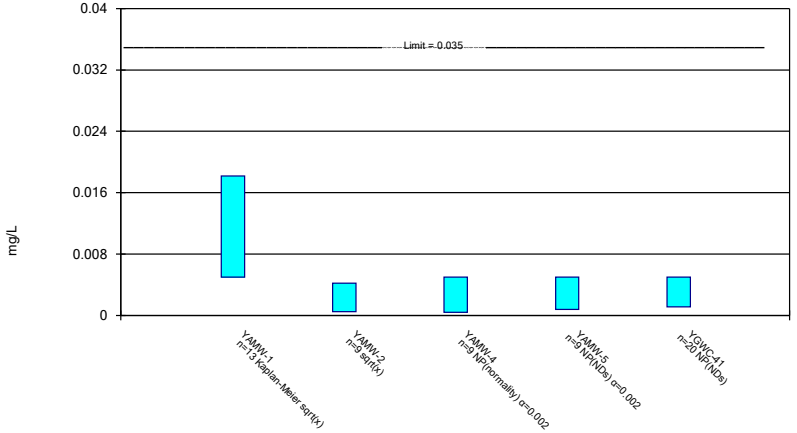


Constituent: Chromium Analysis Run 4/25/2024 4:16 PM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

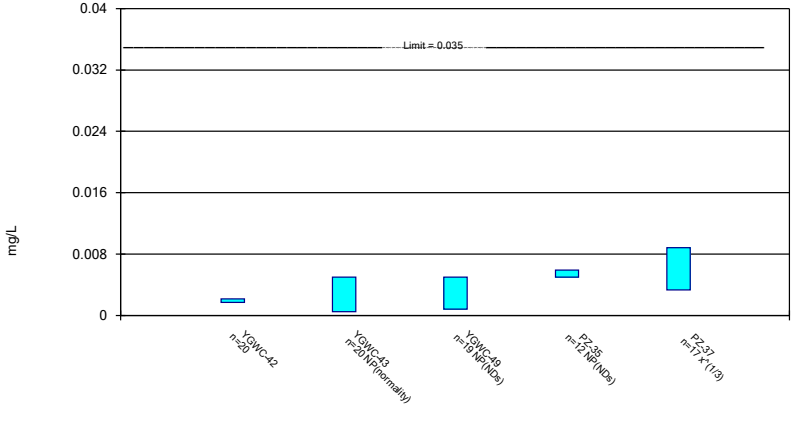
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 4/25/2024 4:16 PM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

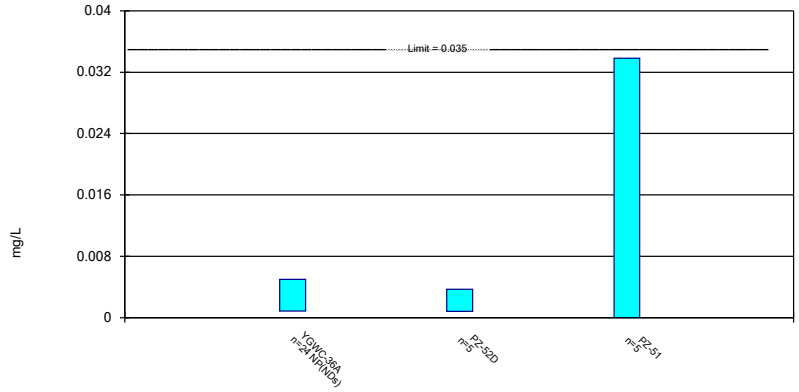
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 4/25/2024 4:16 PM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

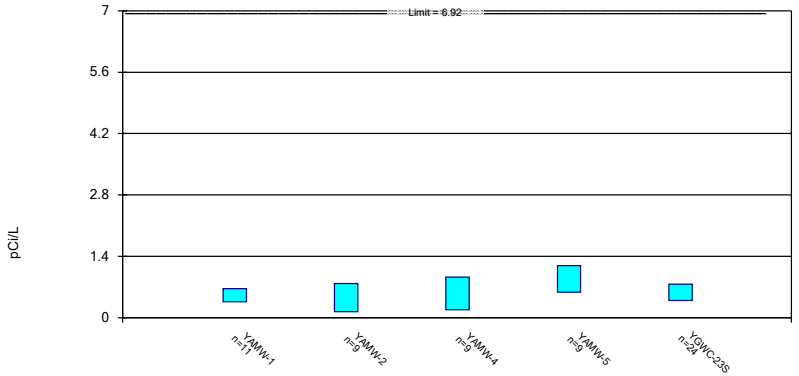
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 4/25/2024 4:16 PM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

Parametric Confidence Interval

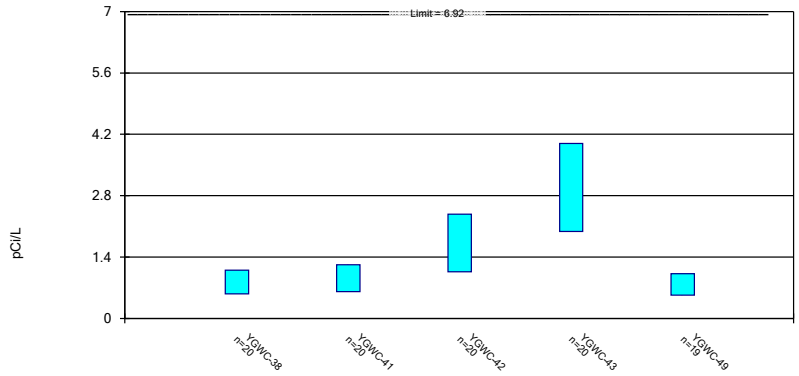
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 4/25/2024 4:16 PM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

Parametric Confidence Interval

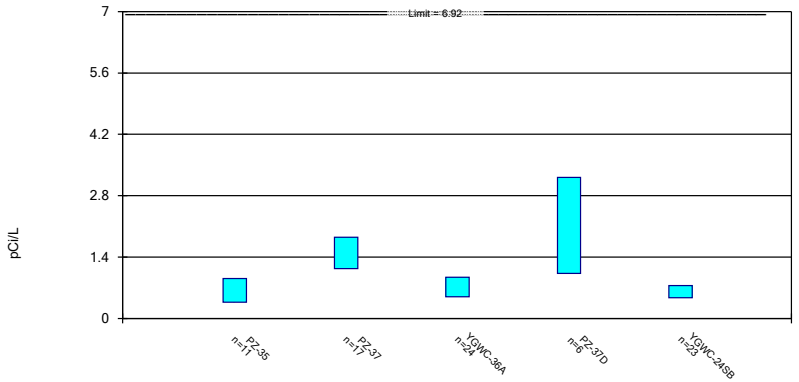
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 4/25/2024 4:16 PM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

Parametric Confidence Interval

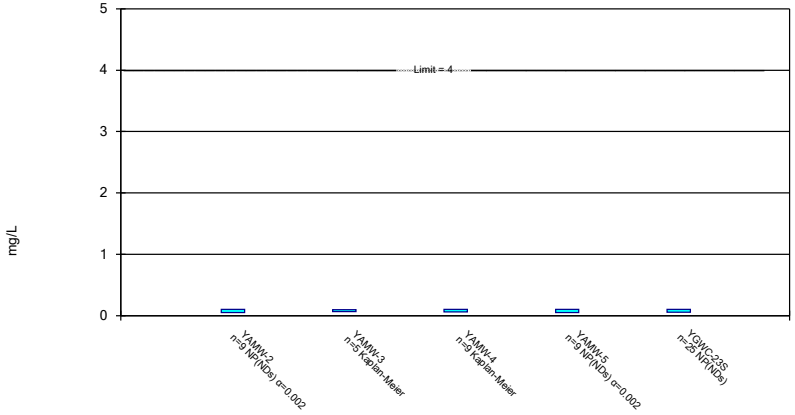
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 4/25/2024 4:16 PM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

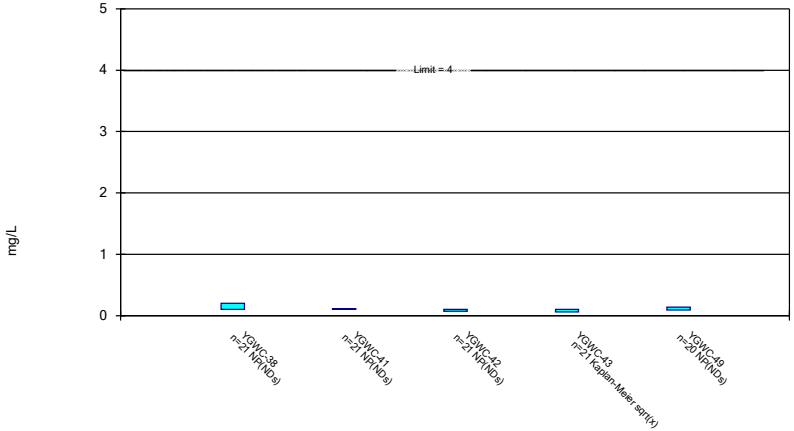
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 4/25/2024 4:16 PM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

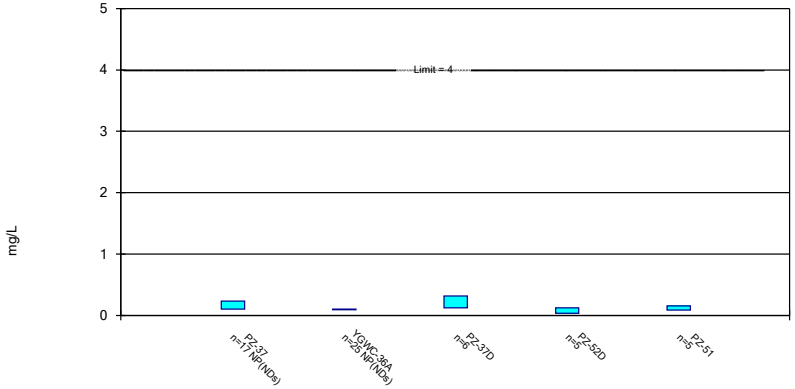
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 4/25/2024 4:16 PM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 4/25/2024 4:16 PM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

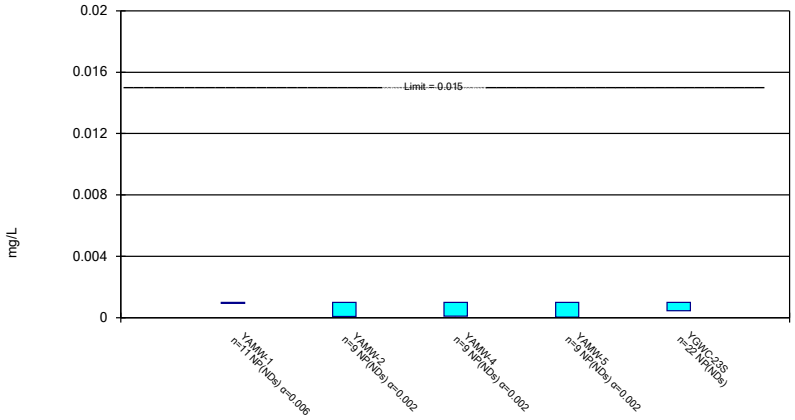
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

Constituent: Fluoride Analysis Run 4/25/2024 4:16 PM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

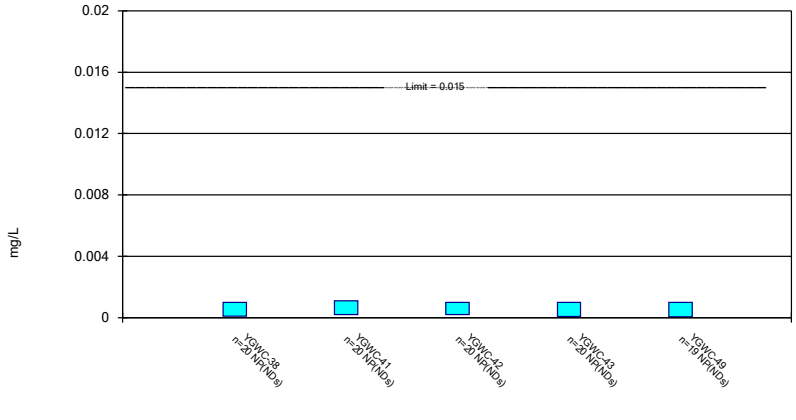
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Lead Analysis Run 4/25/2024 4:16 PM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

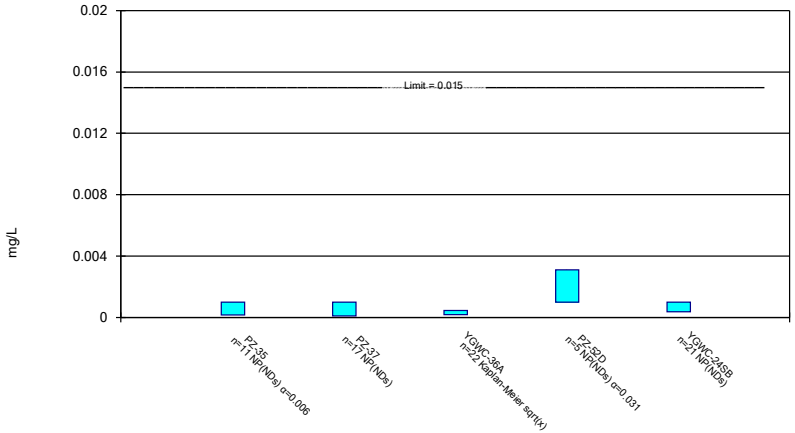
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 4/25/2024 4:16 PM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

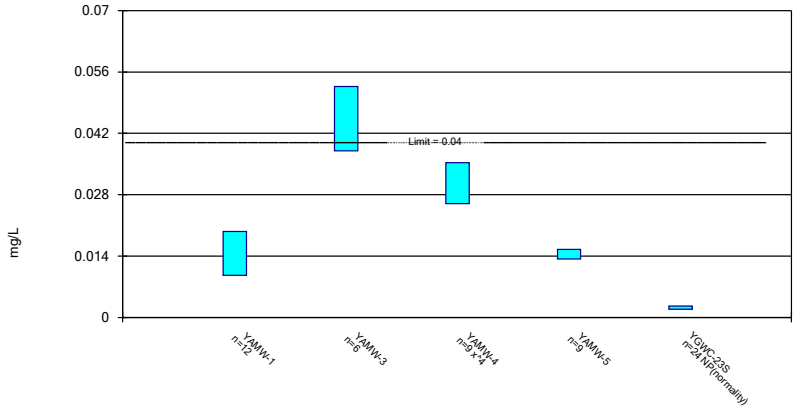
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 4/25/2024 4:16 PM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

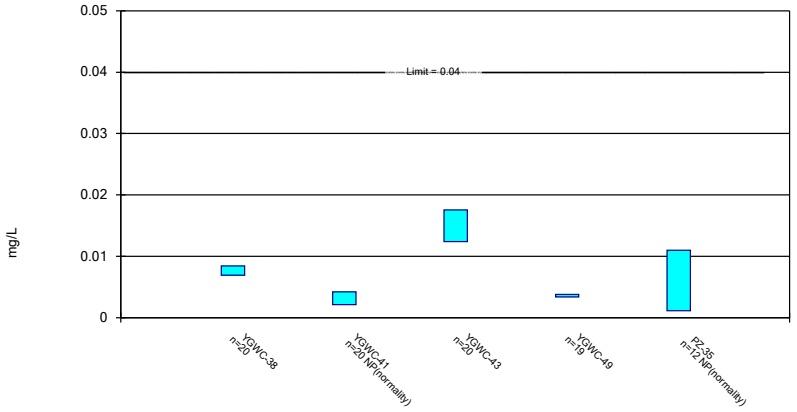
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 4/25/2024 4:16 PM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 4/25/2024 4:16 PM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

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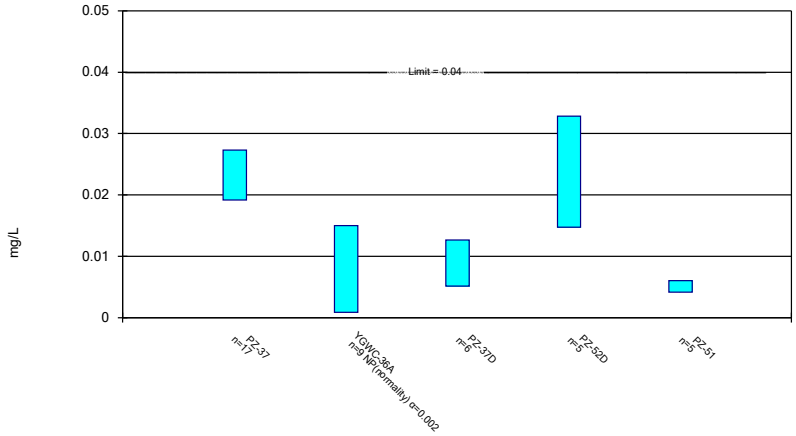
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 4/25/2024 4:16 PM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

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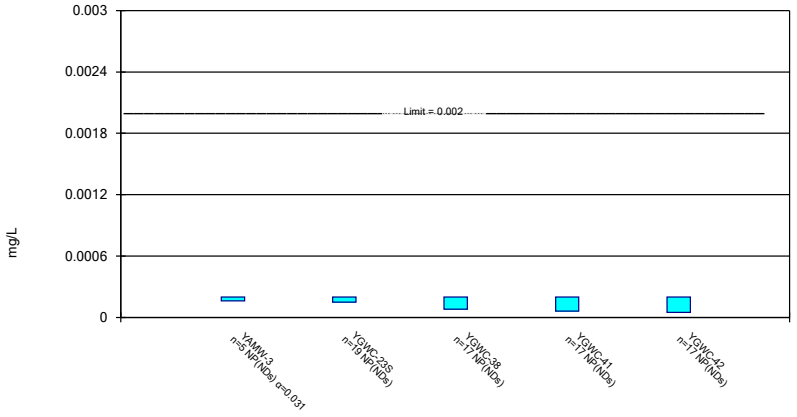
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Mercury Analysis Run 4/25/2024 4:16 PM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

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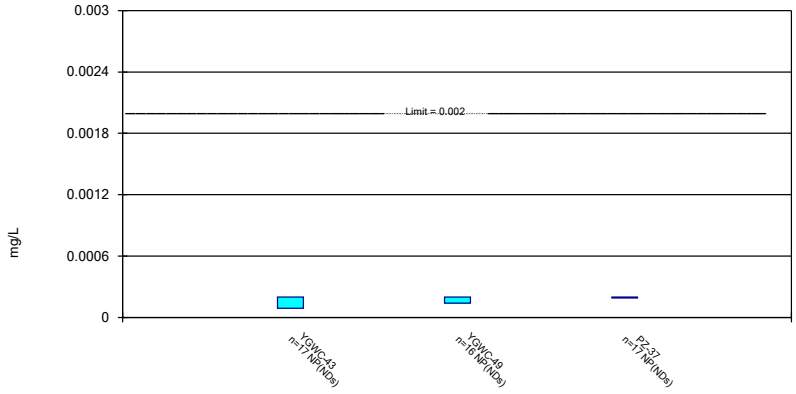
Non-Parametric Confidence Interval

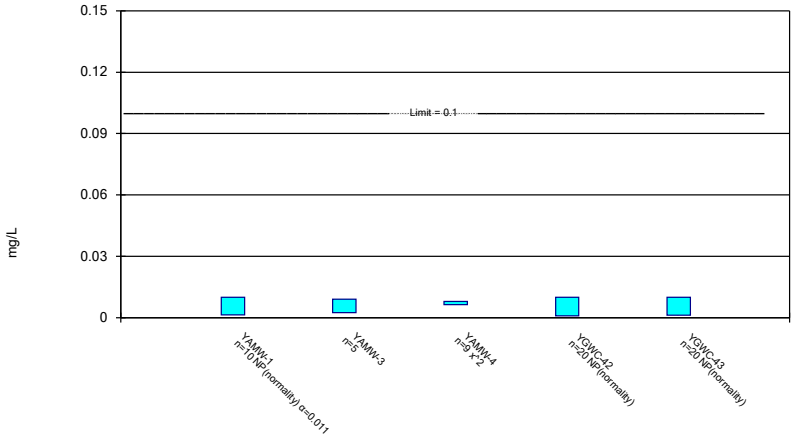
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 4/25/2024 4:16 PM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 4/25/2024 4:16 PM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

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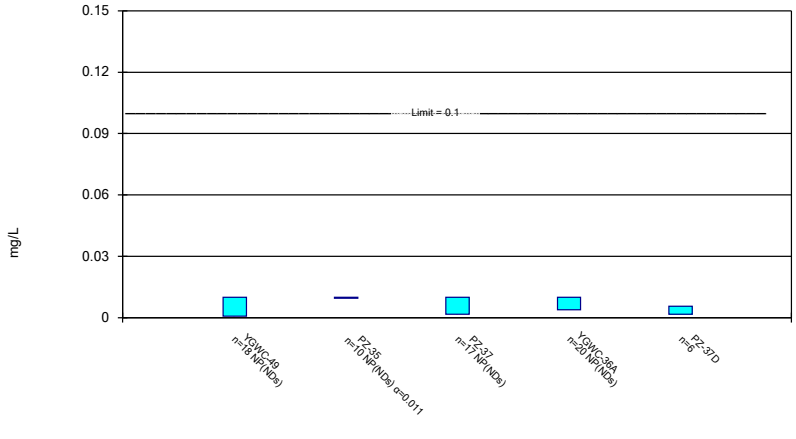
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 4/25/2024 4:16 PM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

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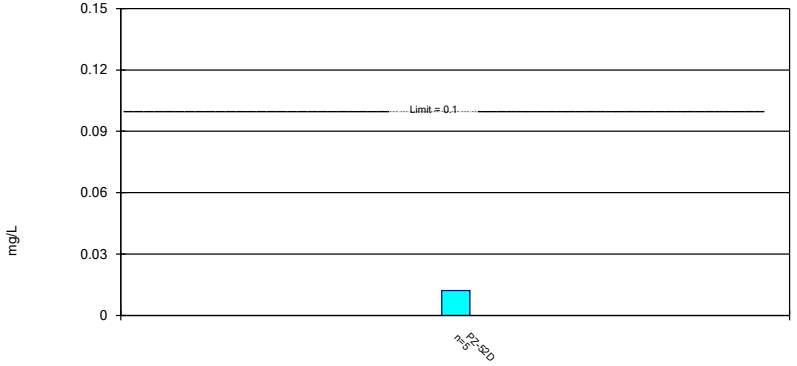
Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 4/25/2024 4:16 PM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

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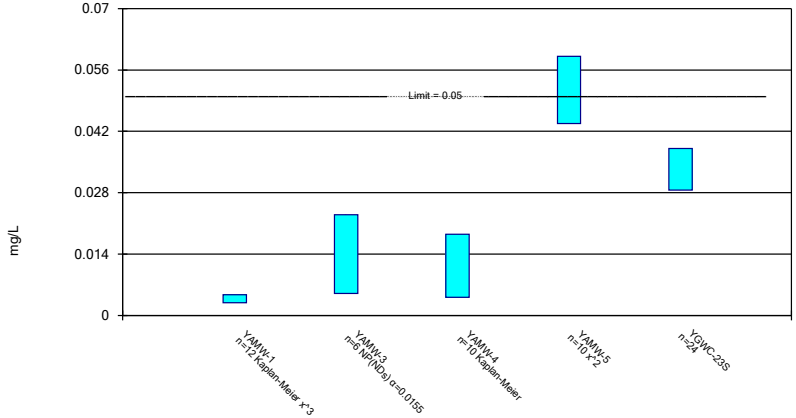
Parametric and Non-Parametric (NP) Confidence Interval

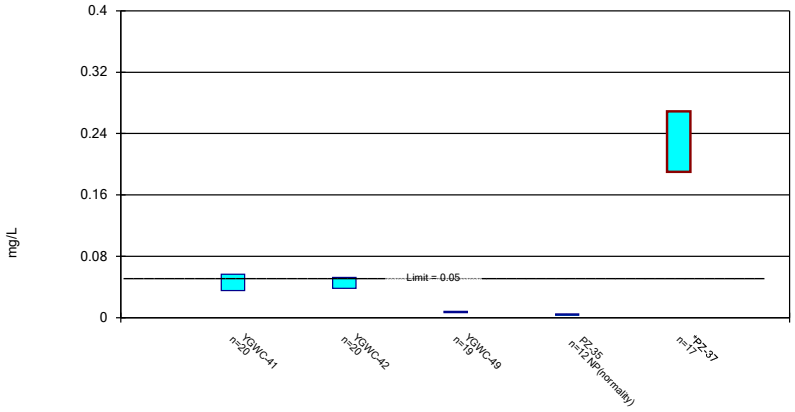
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 4/25/2024 4:16 PM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 4/25/2024 4:16 PM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

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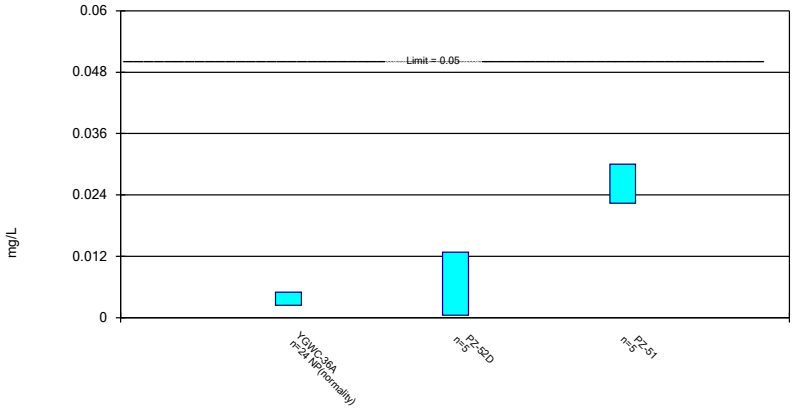
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 4/25/2024 4:16 PM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

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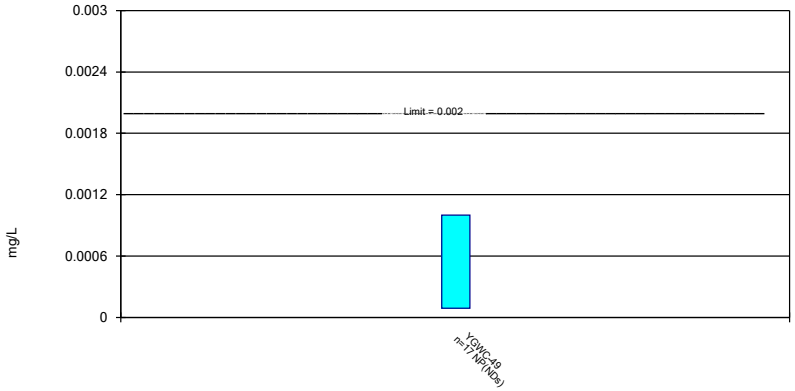
Non-Parametric Confidence Interval

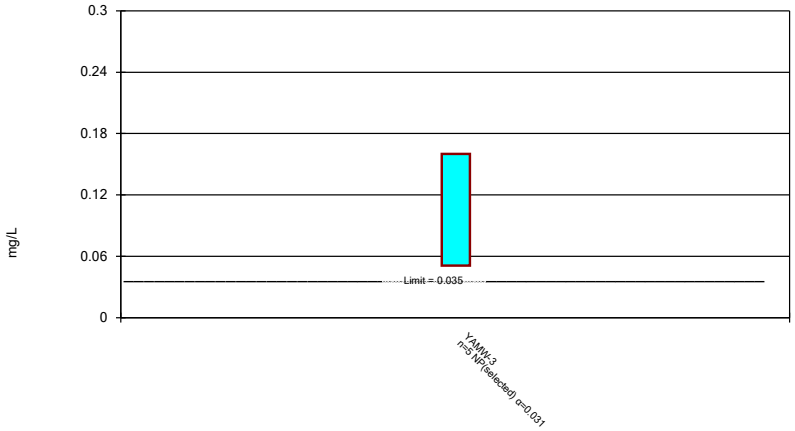
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 4/25/2024 4:16 PM View: Appendix IV
Plant Yates Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

Compliance limit is exceeded.



Normality testing disabled.

Constituent: Cobalt Analysis Run 4/25/2024 4:18 PM View: Appendix IV Nonparametric

Plant Yates Data: Plant Yates AMA-R6

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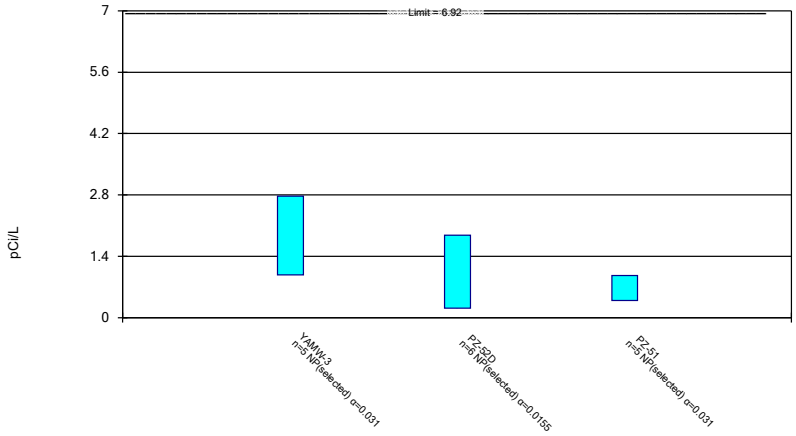
Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



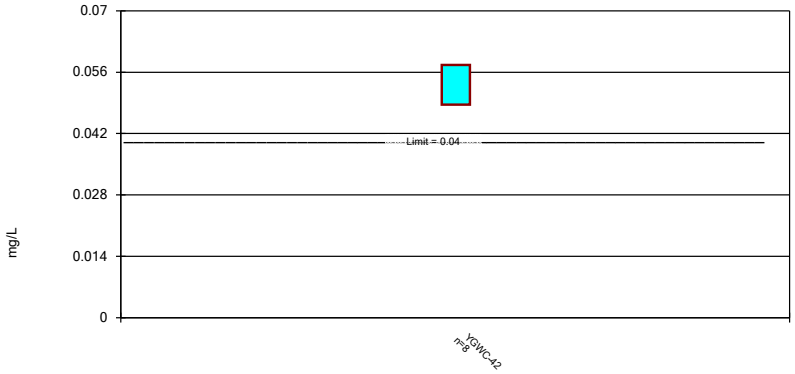
Normality testing disabled.

Constituent: Combined Radium 226 + 228 Analysis Run 4/25/2024 4:18 PM View: Appendix IV Nonparam

Plant Yates Data: Plant Yates AMA-R6

Parametric Confidence Interval

Compliance limit is exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 4/25/2024 4:20 PM View: Appendix IV - Most Recent 8
Plant Yates Data: Plant Yates AMA-R6

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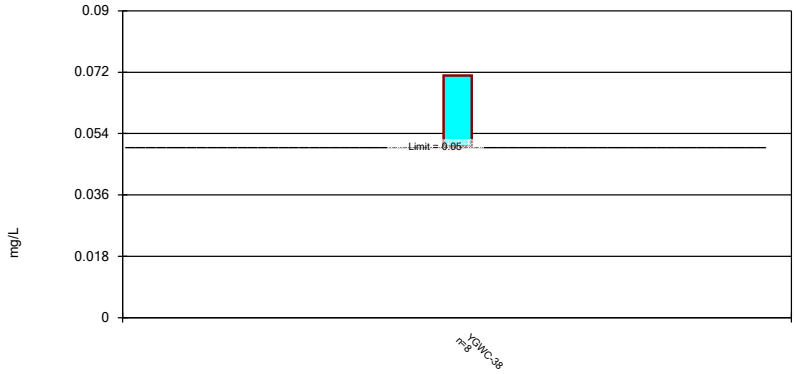
Parametric Confidence Interval

Compliance limit is exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 4/25/2024 4:20 PM View: Appendix IV - Most Recent 8
Plant Yates Data: Plant Yates AMA-R6

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 4/25/2024 4:22 PM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	YAMW-1	YAMW-4	YAMW-5	YGWC-23S	YGWC-38
6/7/2016				<0.003	
7/28/2016				<0.003	
9/20/2016				<0.003	
11/8/2016				<0.003	
1/16/2017				<0.003	
3/9/2017				<0.003	
5/2/2017				<0.003	
7/10/2017				<0.003	
10/12/2017					<0.003
11/20/2017					<0.003
1/12/2018					<0.003
2/20/2018					<0.003
3/30/2018				<0.003	
4/3/2018					<0.003
6/28/2018					<0.003
8/7/2018					0.0015 (J)
9/24/2018					<0.003
3/6/2019				<0.003	
4/4/2019				<0.003	
8/22/2019					<0.003
9/26/2019	<0.003				
9/27/2019				0.00029 (J)	
3/25/2020	<0.003				0.00063 (J)
3/26/2020				<0.003	
9/23/2020		0.00065 (J)			
9/24/2020	<0.003		0.00033 (J)	0.00085 (J)	
9/25/2020					0.00061 (J)
2/9/2021	0.00037 (J)	0.0011 (J)	<0.003	0.00052 (J)	0.00031 (J)
3/3/2021	0.025	0.00062 (J)			
3/4/2021			<0.003	<0.003	<0.003
8/25/2021		<0.003		<0.003	
8/26/2021			<0.003		<0.003
9/1/2021	0.0024 (J)				
2/10/2022	<0.003	<0.003	<0.003	<0.003	<0.003
8/31/2022	0.0016 (J)				
9/1/2022		<0.003	<0.003	<0.003	<0.003
2/8/2023		<0.003	<0.003	<0.003	<0.003
2/9/2023	<0.003				
8/16/2023	<0.003	<0.003	<0.003	<0.003	<0.003
2/21/2024				<0.003	
2/22/2024		<0.003	<0.003		<0.003
2/23/2024	0.0023 (J)				
Mean	0.004515	0.002263	0.002703	0.002666	0.002529
Std. Dev.	0.006844	0.001113	0.00089	0.0008638	0.0009603
Upper Lim.	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.0016	0.00062	0.00033	0.00085	0.0015

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 4/25/2024 4:22 PM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	YGWC-41	YGWC-42	YGWC-43	YGWC-49	PZ-35
8/30/2016		<0.003			
8/31/2016			<0.003		
9/1/2016				<0.003	
11/15/2016				<0.003	
11/16/2016		<0.003	<0.003		
2/24/2017			<0.003		
2/27/2017		<0.003		0.0011 (J)	
5/9/2017				<0.003	
5/10/2017		<0.003	<0.003		
7/11/2017		<0.003	<0.003		
7/13/2017				<0.003	
10/11/2017				<0.003	
10/12/2017	<0.003	<0.003	<0.003		
11/21/2017	<0.003				
1/11/2018	<0.003				
2/19/2018	<0.003				
4/3/2018	<0.003				
4/4/2018		<0.003	<0.003	<0.003	
6/27/2018	<0.003				
8/7/2018	<0.003				
9/20/2018		<0.003	<0.003	<0.003	
9/24/2018	<0.003				
8/21/2019			<0.003		
8/22/2019	<0.003	<0.003			
9/26/2019				<0.003	<0.003
3/25/2020	<0.003	<0.003	0.00031 (J)	0.00053 (J)	<0.003
9/24/2020		<0.003		<0.003	<0.003
9/25/2020	<0.003		<0.003		
2/9/2021			<0.003	<0.003	
2/10/2021	0.0014 (J)	0.00053 (J)			<0.003
3/4/2021	<0.003	<0.003	<0.003	<0.003	0.00039 (J)
8/25/2021		<0.003			
8/26/2021	<0.003				
9/1/2021				<0.003	<0.003
9/27/2021			<0.003		
2/8/2022	<0.003		<0.003	<0.003	
2/10/2022		<0.003			<0.003
8/31/2022				<0.003	<0.003
9/1/2022	<0.003	<0.003	<0.003		
2/8/2023	<0.003	<0.003	<0.003		
2/9/2023				<0.003	<0.003
8/16/2023	<0.003	<0.003	0.0026 (J)	<0.003	<0.003
2/21/2024				<0.003	
2/22/2024	<0.003	<0.003	<0.003		
2/23/2024					<0.003
Mean	0.002916	0.00287	0.002837	0.00277	0.002763
Std. Dev.	0.0003671	0.0005667	0.0006189	0.0006955	0.0007869
Upper Lim.	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.0014	0.00053	0.0026	0.0011	0.003

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 4/25/2024 4:22 PM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	PZ-37	YGWC-36A	PZ-37D	YGWC-24SB
6/8/2016				<0.003
8/1/2016				<0.003
9/2/2016		<0.003		
9/20/2016				0.0009 (J)
11/8/2016				<0.003
11/14/2016		0.0014 (J)		
1/17/2017				<0.003
2/28/2017		0.0004 (J)		
3/8/2017				<0.003
5/2/2017				<0.003
5/9/2017		<0.003		
7/7/2017				<0.003
7/13/2017		<0.003		
9/22/2017		<0.003		
9/29/2017		<0.003		
10/6/2017		<0.003		
10/12/2017	<0.003			
11/21/2017	<0.003			
1/11/2018	<0.003			
2/20/2018	<0.003			
3/30/2018		<0.003		<0.003
4/3/2018	<0.003			
6/29/2018	<0.003			
8/6/2018	<0.003			
9/24/2018	<0.003			
3/5/2019				<0.003
3/6/2019		0.0011 (J)		
4/4/2019		0.0041		<0.003
9/26/2019		0.0065		<0.003
3/25/2020		0.0011 (J)		
3/26/2020				<0.003
9/23/2020				<0.003
9/25/2020	0.0014 (J)			
10/7/2020		<0.003		
2/9/2021	0.00035 (J)			<0.003
2/10/2021		0.028		
3/3/2021				<0.003
3/4/2021	<0.003	0.0015 (J)		
8/25/2021	<0.003			
9/1/2021				<0.003
9/3/2021		0.0016 (J)	<0.003	
2/10/2022	<0.003			<0.003
2/11/2022		0.0023 (J)	<0.003	
9/1/2022	0.00091 (J)	<0.003	<0.003	
2/8/2023	<0.003		0.0015 (J)	
2/9/2023		<0.003		
2/10/2023				<0.003
8/16/2023		<0.003	<0.003	<0.003
8/17/2023	<0.003			
2/21/2024	<0.003		<0.003	
2/23/2024		<0.003		<0.003
Mean	0.002627	0.003818	0.00275	0.0029

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 4/25/2024 4:22 PM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	PZ-37	YGWC-36A	PZ-37D	YGWC-24SB
Std. Dev.	0.000851	0.005542	0.0006124	0.0004583
Upper Lim.	0.003	0.0041	0.003	0.003
Lower Lim.	0.0014	0.0016	0.0015	0.0009

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/25/2024 4:22 PM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	YAMW-1	YAMW-3	YAMW-4	YAMW-5	YGWC-23S
6/7/2016					<0.005
7/28/2016					<0.005
9/20/2016					<0.005
11/8/2016					<0.005
1/16/2017					<0.005
3/9/2017					<0.005
5/2/2017					<0.005
7/10/2017					<0.005
3/30/2018					<0.005
6/12/2018					<0.005
9/27/2018					<0.005
10/16/2018	<0.005				
3/6/2019					<0.005
4/4/2019					<0.005
9/26/2019	<0.005				
9/27/2019					<0.005
3/25/2020	<0.005				
3/26/2020					0.0012 (J)
9/23/2020			<0.005		
9/24/2020	<0.005			0.0015 (J)	<0.005
2/9/2021	<0.005		0.001 (J)	0.00095 (J)	<0.005
3/3/2021	<0.005		0.00079 (J)		
3/4/2021				<0.005	<0.005
8/25/2021			<0.005		<0.005
8/26/2021				<0.005	
9/1/2021	<0.005				
2/10/2022	0.0023 (J)	0.0038 (J)	0.0026 (J)	0.0024 (J)	0.0025 (J)
8/31/2022	<0.005				
9/1/2022		<0.005	<0.005	<0.005	<0.005
2/8/2023			0.0037 (J)	0.0038 (J)	<0.005
2/9/2023	0.0034 (J)	<0.005			
8/16/2023	<0.005	<0.005	<0.005	<0.005	<0.005
2/21/2024		0.0015 (J)			<0.005
2/22/2024			0.001 (J)	0.0011 (J)	
2/23/2024	<0.005				
Mean	0.004642	0.00406	0.003232	0.003306	0.004737
Std. Dev.	0.0008691	0.001522	0.001906	0.00181	0.0009098
Upper Lim.	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.0034	0.0015	0.00079	0.00095	0.0025

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/25/2024 4:22 PM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	YGWC-38	YGWC-41	YGWC-42	YGWC-43	YGWC-49
8/30/2016			0.0023 (J)		
8/31/2016				<0.005	
9/1/2016					<0.005
11/15/2016					<0.005
11/16/2016			0.0017 (J)	<0.005	
2/24/2017				<0.005	
2/27/2017			0.002 (J)		<0.005
5/9/2017					<0.005
5/10/2017			0.0022 (J)	<0.005	
7/11/2017			0.003 (J)	<0.005	
7/13/2017					<0.005
10/11/2017					0.0006 (J)
10/12/2017	0.0023 (J)	0.0011 (J)	0.0031 (J)	<0.005	
11/20/2017	0.0008 (J)				
11/21/2017		<0.005			
1/11/2018		<0.005			
1/12/2018	0.001 (J)				
2/19/2018		<0.005			
2/20/2018	0.00096 (J)				
4/3/2018	0.0015 (J)	0.00072 (J)			
4/4/2018			0.0023 (J)	<0.005	<0.005
6/27/2018		0.00062 (J)			
6/28/2018	0.0017 (J)				
8/7/2018	0.00072 (J)	<0.005			
9/20/2018			0.0018 (J)	0.00099 (J)	0.001 (J)
9/24/2018	0.0017 (J)	0.001 (J)			
8/21/2019				<0.005	
8/22/2019	0.00055 (J)	0.00036 (J)	0.00089 (J)		
9/26/2019					<0.005
10/9/2019	0.00057 (J)	0.00052 (J)	0.00078 (J)	0.00051 (J)	
3/25/2020	0.00068 (J)	0.001 (J)	0.0013 (J)	0.0007 (J)	0.00086 (J)
9/24/2020			<0.005		<0.005
9/25/2020	<0.005	<0.005		<0.005	
2/9/2021	0.00098 (J)			<0.005	<0.005
2/10/2021		<0.005	0.0016 (J)		
3/4/2021	<0.005	<0.005	<0.005	<0.005	<0.005
8/25/2021			0.0014 (J)		
8/26/2021	0.0013 (J)	<0.005			
9/1/2021					<0.005
9/27/2021				<0.005	
2/8/2022		0.0021 (J)		0.0022 (J)	<0.005
2/10/2022	0.0017 (J)		0.0026 (J)		
8/31/2022					<0.005
9/1/2022	<0.005	<0.005	<0.005	<0.005	
2/8/2023	<0.005	0.0027 (J)	0.0025 (J)	0.0033 (J)	
2/9/2023					<0.005
8/16/2023	<0.005	<0.005	<0.005	<0.005	<0.005
2/21/2024					<0.005
2/22/2024	<0.005	<0.005	0.0014 (J)	<0.005	
Mean	0.002323	0.003256	0.002543	0.004135	0.00434
Std. Dev.	0.001851	0.002041	0.001402	0.00163	0.001567
Upper Lim.	0.001228	0.005	0.002209	0.005	0.005

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/25/2024 4:22 PM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	YGWC-38	YGWC-41	YGWC-42	YGWC-43	YGWC-49
Lower Lim.	0.0007661	0.001	0.001396	0.0033	0.001

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/25/2024 4:22 PM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D
9/2/2016			<0.005		
11/14/2016			<0.005		
2/28/2017			0.0006 (J)		
5/9/2017			0.0006 (J)		
7/13/2017			<0.005		
9/22/2017			<0.005		
9/29/2017			<0.005		
10/6/2017			<0.005		
10/12/2017		0.0014 (J)			
11/21/2017		0.0008 (J)			
1/11/2018		0.0006 (J)			
2/20/2018		<0.005			
3/30/2018			<0.005		
4/3/2018		0.0012 (J)			
6/13/2018			0.00066 (J)		
6/29/2018		0.0011 (J)			
8/6/2018		<0.005			
9/24/2018		0.00094 (J)			
9/26/2018			<0.005		
10/16/2018	0.00069 (J)				
3/6/2019			<0.005		
4/4/2019			<0.005		
9/26/2019	<0.005		<0.005		
3/25/2020	<0.005		<0.005		
9/24/2020	<0.005				
9/25/2020		<0.005			
10/7/2020			<0.005		
2/9/2021		0.0015 (J)			
2/10/2021	0.00096 (J)		0.00088 (J)		
3/4/2021	<0.005	<0.005	<0.005		
8/25/2021		0.0014 (J)			
9/1/2021	<0.005				
9/3/2021			<0.005	<0.005	
2/10/2022	0.0018 (J)	0.0017 (J)			
2/11/2022			0.0014 (J)	<0.005	0.0014 (J)
8/31/2022	<0.005				
9/1/2022		<0.005	<0.005	<0.005	<0.005
2/8/2023		<0.005		<0.005	0.0032 (J)
2/9/2023	0.0028 (J)		0.0047 (J)		
8/16/2023	<0.005		<0.005	<0.005	
8/17/2023		<0.005			<0.005
2/21/2024		0.0023 (J)		0.0014 (J)	0.0013 (J)
2/23/2024	<0.005		<0.005		
Mean	0.003854	0.00282	0.004118	0.0044	0.00318
Std. Dev.	0.001764	0.001915	0.001731	0.00147	0.001825
Upper Lim.	0.005	0.005	0.005	0.005	0.00343
Lower Lim.	0.00096	0.0011	0.0047	0.0014	0.0005037

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/25/2024 4:22 PM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	PZ-51	YGWC-24SB
6/8/2016		<0.005
8/1/2016		<0.005
9/20/2016		<0.005
11/8/2016		<0.005
1/17/2017		<0.005
3/8/2017		<0.005
5/2/2017		<0.005
7/7/2017		<0.005
3/30/2018		<0.005
6/12/2018		<0.005
9/26/2018		<0.005
3/5/2019		<0.005
4/4/2019		<0.005
9/26/2019		<0.005
3/26/2020		0.0015 (J)
9/23/2020		<0.005
2/9/2021		<0.005
3/3/2021		<0.005
9/1/2021		<0.005
2/10/2022	0.0013 (J)	0.0024 (J)
9/1/2022	<0.005	
2/9/2023	<0.005	
2/10/2023		0.0035 (J)
8/16/2023	<0.005	<0.005
2/22/2024	<0.005	
2/23/2024		<0.005
Mean	0.00426	0.00467
Std. Dev.	0.001655	0.0009232
Upper Lim.	0.005	0.005
Lower Lim.	0.0013	0.0035

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/25/2024 4:22 PM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5
10/16/2018	0.048				
9/26/2019	0.047				
3/25/2020	0.04				
9/23/2020		0.0092 (J)		0.0063 (J)	
9/24/2020	0.028				0.057
2/9/2021	0.039	0.0085 (J)		0.02	0.042
3/3/2021	0.035	0.0082		0.021	
3/4/2021					0.039
8/25/2021				0.0037 (J)	
8/26/2021					0.036
9/1/2021	0.075	0.0072			
2/10/2022	0.084	0.0074	0.038	0.0033 (J)	0.034
8/31/2022	0.085				
9/1/2022		0.0092	0.024	0.003 (J)	0.034
2/8/2023		0.0064		0.003 (J)	0.039
2/9/2023	0.078		0.045		
8/16/2023	0.092		0.026	0.0031 (J)	0.036
8/17/2023		0.0092			
2/21/2024			0.032		
2/22/2024		0.0068		0.003 (J)	0.035
2/23/2024	0.087				
Mean	0.0615	0.008011	0.033	0.007378	0.03911
Std. Dev.	0.02389	0.001096	0.00866	0.007517	0.007219
Upper Lim.	0.08025	0.009069	0.04751	0.021	0.057
Lower Lim.	0.04275	0.006953	0.01849	0.003	0.034

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/25/2024 4:22 PM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	YGWC-23S	YGWC-38	YGWC-41	YGWC-42	YGWC-43
6/7/2016	0.045				
7/28/2016	0.0511				
8/30/2016				0.0455	
8/31/2016					0.0065 (J)
9/20/2016	0.0561				
11/8/2016	0.054				
11/16/2016				0.0541	0.0092 (J)
1/16/2017	0.0528				
2/24/2017					0.0144
2/27/2017				0.0573	
3/9/2017	0.0469				
5/2/2017	0.0427				
5/10/2017				0.0517	0.0173
7/10/2017	0.0395				
7/11/2017				0.0451	0.0183
10/12/2017		0.0269	0.0394	0.0429	0.0205
11/20/2017		0.0255			
11/21/2017			0.032		
1/11/2018			0.03		
1/12/2018		0.0236			
2/19/2018			0.0308		
2/20/2018		0.0255			
3/30/2018	0.03				
4/3/2018		0.023	0.03		
4/4/2018				0.041	0.024
6/12/2018	0.024				
6/27/2018			0.028		
6/28/2018		0.024			
8/7/2018		0.023	0.027		
9/20/2018				0.038	0.035
9/24/2018		0.021	0.026		
9/27/2018	0.022				
3/6/2019	0.019				
4/4/2019	0.019				
8/21/2019					0.03
8/22/2019		0.019	0.021	0.031	
9/27/2019	0.018				
10/9/2019		0.019	0.021	0.027	0.04
3/25/2020		0.018	0.021	0.03	0.033
3/26/2020	0.027				
9/24/2020	0.035			0.026	
9/25/2020		0.015	0.016		0.046
2/9/2021	0.042	0.016			0.041
2/10/2021			0.017	0.031	
3/4/2021	0.043	0.016	0.017	0.03	0.039
8/25/2021	0.049			0.027	
8/26/2021		0.016	0.018		
9/27/2021					0.0097
2/8/2022			0.021		0.029
2/10/2022	0.058	0.016		0.026	
9/1/2022	0.053	0.014	0.019	0.023	0.029
2/8/2023	0.053	0.016	0.022	0.023	0.031

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/25/2024 4:22 PM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	YGWC-23S	YGWC-38	YGWC-41	YGWC-42	YGWC-43
8/16/2023	0.052	0.015	0.02	0.024	0.029
2/21/2024	0.053				
2/22/2024		0.015	0.019	0.021	0.028
Mean	0.04105	0.01938	0.02376	0.03473	0.0265
Std. Dev.	0.01336	0.004263	0.006288	0.01132	0.01128
Upper Lim.	0.04869	0.0218	0.02733	0.04116	0.0329
Lower Lim.	0.03662	0.01695	0.02019	0.0283	0.02009

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/25/2024 4:22 PM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	YGWC-49	PZ-35	PZ-37	YGWC-36A	PZ-37D
9/1/2016	0.077				
9/2/2016				0.0409	
11/14/2016				0.0182	
11/15/2016	0.0772				
2/27/2017	0.0888				
2/28/2017				0.023	
5/9/2017	0.0792			0.0349	
7/13/2017	0.0839			0.0484	
9/22/2017				0.0491	
9/29/2017				0.0452	
10/6/2017				0.0508	
10/11/2017	0.078				
10/12/2017			0.064		
11/21/2017			0.0579		
1/11/2018			0.0549		
2/20/2018			0.0593		
3/30/2018				0.043	
4/3/2018			0.051		
4/4/2018	0.074				
6/13/2018				0.046	
6/29/2018			0.054		
8/6/2018			0.048		
9/20/2018	0.074				
9/24/2018			0.047		
9/26/2018				0.048	
10/16/2018		0.063			
3/6/2019				0.041	
4/4/2019				0.042	
9/26/2019	0.065	0.039		0.025	
3/25/2020	0.071	0.039		0.025	
9/24/2020	0.066	0.034			
9/25/2020			0.034		
10/7/2020				0.04	
2/9/2021	0.071		0.036		
2/10/2021		0.032		0.035	
3/4/2021	0.069	0.033	0.036	0.028	
8/25/2021			0.035		
9/1/2021	0.066	0.067			
9/3/2021				0.038	0.015
2/8/2022	0.07				
2/10/2022		0.074	0.029		
2/11/2022				0.044	0.013
8/31/2022	0.058	0.1			
9/1/2022			0.023	0.059	0.033
2/8/2023			0.022		0.018
2/9/2023	0.063	0.13		0.097	
8/16/2023	0.058	0.18		0.19	0.021
8/17/2023			0.023		
2/21/2024	0.054		0.021		0.02
2/23/2024		0.21		0.13	
Mean	0.07069	0.08342	0.04089	0.05173	0.02
Std. Dev.	0.009043	0.06041	0.01454	0.03773	0.007043

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/25/2024 4:22 PM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	YGWC-49	PZ-35	PZ-37	YGWC-36A	PZ-37D
Upper Lim.	0.07598	0.1223	0.05	0.05769	0.02967
Lower Lim.	0.06539	0.03888	0.03178	0.03386	0.01033

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/25/2024 4:22 PM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	PZ-52D	PZ-51	YGWC-24SB
6/8/2016			0.02
8/1/2016			0.02
9/20/2016			0.0203
11/8/2016			0.0191
1/17/2017			0.0192
3/8/2017			0.0189
5/2/2017			0.019
7/7/2017			0.019
3/30/2018			0.02
6/12/2018			0.018
9/26/2018			0.019
3/5/2019			0.019
4/4/2019			0.02
9/26/2019			0.017
3/26/2020			0.019
9/23/2020			0.026
2/9/2021			0.031
3/3/2021			0.025
9/1/2021			0.025
2/10/2022		0.017	0.026
2/11/2022	0.032		
9/1/2022	0.015	0.013	
2/8/2023	0.012		
2/9/2023		0.015	
2/10/2023			0.031
8/16/2023		0.014	0.025
8/17/2023	0.011		
2/21/2024	0.0091		
2/22/2024		0.015	
2/23/2024			0.032
Mean	0.01582	0.0148	0.02211
Std. Dev.	0.009293	0.001483	0.00453
Upper Lim.	0.0316	0.01729	0.025
Lower Lim.	0.00445	0.01231	0.019

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 4/25/2024 4:22 PM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-5	YGWC-23S
6/7/2016					<0.0005
7/28/2016					<0.0005
9/20/2016					0.0001 (J)
11/8/2016					<0.0005
1/16/2017					0.0001 (J)
3/9/2017					0.0001 (J)
5/2/2017					9E-05 (J)
7/10/2017					<0.0005
3/30/2018					<0.0005
6/12/2018					8.1E-05 (J)
9/27/2018					9E-05 (J)
10/16/2018	<0.0005				
3/6/2019					6.6E-05 (J)
4/4/2019					7.2E-05 (J)
9/26/2019	<0.0005				
9/27/2019					7.7E-05 (J)
1/15/2020				0.00017 (J)	
3/25/2020	0.00037 (J)				
3/26/2020					9E-05 (J)
9/23/2020		<0.0005			
9/24/2020	5.8E-05 (J)			8.6E-05 (J)	0.00015 (J)
2/9/2021	<0.0005	5.1E-05 (J)		0.00015 (J)	0.00015 (J)
3/3/2021	<0.0005	<0.0005			
3/4/2021				0.00013 (J)	0.00013 (J)
8/25/2021					0.00019 (J)
8/26/2021				0.00012 (J)	
9/1/2021	9.5E-05 (J)	6.5E-05 (J)			
2/10/2022	0.00016 (J)	7.4E-05 (J)	7.8E-05 (J)	0.00013 (J)	0.00023 (J)
8/31/2022	0.00011 (J)				
9/1/2022		5.7E-05 (J)	0.00011 (J)	0.00011 (J)	0.00019 (J)
2/8/2023		5.5E-05 (J)		0.00013 (J)	0.00022 (J)
2/9/2023	0.00012 (J)		6.2E-05 (J)		
8/16/2023	0.00028 (J)		0.00017 (J)	0.00011 (J)	0.0002 (J)
8/17/2023		6.9E-05 (J)			
2/21/2024			0.00019 (J)		0.00019 (J)
2/22/2024		<0.0005		0.00013 (J)	
2/23/2024	0.00015 (J)				
Mean	0.0002786	0.0002079	0.000122	0.0001266	0.000209
Std. Dev.	0.0001836	0.0002192	5.614E-05	2.29E-05	0.0001601
Upper Lim.	0.0002287	0.0005	0.0002161	0.000147	0.00023
Lower Lim.	9.357E-05	5.1E-05	2.792E-05	0.0001062	9E-05

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 4/25/2024 4:22 PM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	YGWC-38	YGWC-41	YGWC-42	YGWC-43	YGWC-49
8/30/2016			9E-05 (J)		
8/31/2016				<0.0005	
9/1/2016					0.0001 (J)
11/15/2016					0.0001 (J)
11/16/2016			<0.0005	<0.0005	
2/24/2017				<0.0005	
2/27/2017			<0.0005		0.0001 (J)
5/9/2017					0.0001 (J)
5/10/2017			9E-05 (J)	<0.0005	
7/11/2017			0.0001 (J)	<0.0005	
7/13/2017					0.0001 (J)
10/11/2017					0.0001 (J)
10/12/2017	0.0057	0.0036	<0.0005	0.0001 (J)	
11/20/2017	0.0053				
11/21/2017		0.0036			
1/11/2018		0.0037			
1/12/2018	0.0053				
2/19/2018		0.0039			
2/20/2018	0.0053				
4/3/2018	0.0056	0.0037			
4/4/2018			<0.0005	<0.0005	<0.0005
6/27/2018		0.0038			
6/28/2018	0.0059				
8/7/2018	0.0058	0.0037			
9/20/2018			<0.0005	0.00029 (J)	0.00011 (J)
9/24/2018	0.0051	0.0032			
8/21/2019				0.0003 (J)	
8/22/2019	0.0049	0.0026 (J)	<0.0005		
9/26/2019					0.00013 (J)
10/9/2019	0.0046	0.0026 (J)	<0.0005	0.00034 (J)	
3/25/2020	0.0038	0.0026 (J)	<0.0005	0.00034 (J)	0.00013 (J)
9/24/2020			6.7E-05 (J)		0.00013 (J)
9/25/2020	0.0033	0.002 (J)		0.00054 (J)	
2/9/2021	0.0029 (J)			0.00053 (J)	0.00013 (J)
2/10/2021		0.0015 (J)	5.7E-05 (J)		
3/4/2021	0.0029	0.0015	<0.0005	0.00056	0.0001 (J)
8/25/2021			<0.0005		
8/26/2021	0.0028	0.0012			
9/1/2021					0.00012 (J)
9/27/2021				0.00015 (J)	
2/8/2022		0.0016		0.00037 (J)	0.00015 (J)
2/10/2022	0.0027		6.1E-05 (J)		
8/31/2022					0.00017 (J)
9/1/2022	0.0022	0.0013	<0.0005	0.00033 (J)	
2/8/2023	0.002	0.0013	6.2E-05 (J)	0.00036 (J)	
2/9/2023					0.00012 (J)
8/16/2023	0.0018	0.0012	5.7E-05 (J)	0.00034 (J)	0.00011 (J)
2/21/2024					0.0001 (J)
2/22/2024	0.0019	0.0014	<0.0005	0.00032 (J)	
Mean	0.00399	0.0025	0.0003292	0.0003935	0.0001237
Std. Dev.	0.001492	0.001062	0.0002149	0.0001299	3.639E-05
Upper Lim.	0.004837	0.0037	0.0005	0.0003894	0.00013

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 4/25/2024 4:22 PM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	YGWC-38	YGWC-41	YGWC-42	YGWC-43	YGWC-49
Lower Lim.	0.003143	0.0014	6.7E-05	0.000246	0.0001

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 4/25/2024 4:22 PM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-52D	PZ-51
9/2/2016			0.0003 (J)		
11/14/2016			9E-05 (J)		
2/28/2017			0.0001 (J)		
5/9/2017			0.0002 (J)		
7/13/2017			0.0003 (J)		
9/22/2017			0.0003 (J)		
9/29/2017			0.0003 (J)		
10/6/2017			0.0003 (J)		
10/12/2017		0.0004 (J)			
11/21/2017		0.0004 (J)			
1/11/2018		0.0003 (J)			
2/20/2018		<0.0005			
3/30/2018			<0.0005		
4/3/2018		<0.0005			
6/13/2018			0.00035 (J)		
6/29/2018		0.00033 (J)			
8/6/2018		0.0002 (J)			
8/30/2018	0.00052 (J)				
9/24/2018		0.00029 (J)			
9/26/2018			0.00032 (J)		
10/16/2018	0.00036 (J)				
3/6/2019			0.00029 (J)		
4/4/2019			0.00033 (J)		
9/26/2019	<0.0005		0.00029 (J)		
3/25/2020	<0.0005		0.00022 (J)		
9/24/2020	0.00033 (J)				
9/25/2020		0.00031 (J)			
10/7/2020			0.00014 (J)		
2/9/2021		0.00029 (J)			
2/10/2021	0.00025 (J)		9.9E-05 (J)		
3/4/2021	0.00025 (J)	0.00017 (J)	0.00016 (J)		
8/25/2021		0.00059			
9/1/2021	0.00045 (J)				
9/3/2021			0.00035 (J)		
2/10/2022	0.00055	0.001			0.0033
2/11/2022			0.00043 (J)	5.9E-05 (J)	
8/31/2022	0.00061				
9/1/2022		0.0011	0.00053	<0.0005	0.0031
2/8/2023		0.0011		<0.0005	
2/9/2023	0.0008		0.00066		0.0024
8/16/2023	0.0011		0.0011		0.0028
8/17/2023		0.0012		8.6E-05 (J)	
2/21/2024		0.0012		<0.0005	
2/22/2024					0.0029
2/23/2024	0.0015		0.0018		
Mean	0.0005938	0.0005518	0.0003837	0.000329	0.0029
Std. Dev.	0.0003567	0.0003913	0.0003681	0.0002343	0.0003391
Upper Lim.	0.0007754	0.0011	0.0004195	0.0005	0.003468
Lower Lim.	0.000319	0.00025	0.0002059	5.9E-05	0.002332

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 4/25/2024 4:22 PM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	YGWC-24SB
6/8/2016	<0.0005
8/1/2016	0.0001 (J)
9/20/2016	0.0001 (J)
11/8/2016	<0.0005
1/17/2017	0.0001 (J)
3/8/2017	0.0001 (J)
5/2/2017	0.0001 (J)
7/7/2017	0.0001 (J)
3/30/2018	<0.0005
6/12/2018	0.00012 (J)
9/26/2018	0.00014 (J)
3/5/2019	0.00016 (J)
4/4/2019	0.00015 (J)
9/26/2019	0.00014 (J)
3/26/2020	0.00016 (J)
9/23/2020	6.1E-05 (J)
2/9/2021	0.00013 (J)
3/3/2021	9.9E-05 (J)
9/1/2021	0.00014 (J)
2/10/2022	0.00016 (J)
2/10/2023	5.4E-05 (J)
8/16/2023	9.6E-05 (J)
2/23/2024	0.00015 (J)
Mean	0.0001352
Std. Dev.	5.416E-05
Upper Lim.	0.0001586
Lower Lim.	0.0001049

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 4/25/2024 4:22 PM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-5	YGWC-23S
6/7/2016					<0.0005
7/28/2016					<0.0005
9/20/2016					<0.0005
11/8/2016					7E-05 (J)
1/16/2017					<0.0005
3/9/2017					<0.0005
5/2/2017					<0.0005
7/10/2017					<0.0005
3/30/2018					<0.0005
6/12/2018					<0.0005
9/27/2018					<0.0005
10/16/2018	0.00014 (J)				
3/6/2019					<0.0005
4/4/2019					<0.0005
9/26/2019	<0.0005				
9/27/2019					<0.0005
3/25/2020	<0.0005				
3/26/2020					<0.0005
9/23/2020		<0.0005			
9/24/2020	0.00017 (J)			0.00018 (J)	<0.0005
2/9/2021	0.00013 (J)	<0.0005		0.00025 (J)	<0.0005
3/3/2021	<0.0005	<0.0005			
3/4/2021				0.00018 (J)	<0.0005
8/25/2021					<0.0005
8/26/2021				0.00021 (J)	
9/1/2021	0.00023 (J)	<0.0005			
2/10/2022	0.00018 (J)	<0.0005	<0.0005	0.00022 (J)	<0.0005
8/31/2022	0.00015 (J)				
9/1/2022		0.00015 (J)	<0.0005	0.00023 (J)	<0.0005
2/8/2023		<0.0005		0.00046 (J)	<0.0005
2/9/2023	<0.0005		<0.0005		
8/16/2023	0.00021 (J)		0.00048 (J)	0.00022 (J)	<0.0005
8/17/2023		<0.0005			
2/21/2024			0.00035 (J)		<0.0005
2/22/2024		<0.0005		0.00022 (J)	
2/23/2024	0.00023 (J)				
Mean	0.0002867	0.0004611	0.000466	0.0002411	0.0004821
Std. Dev.	0.0001607	0.0001167	6.542E-05	8.507E-05	8.777E-05
Upper Lim.	0.0005	0.0005	0.0005	0.00046	0.0005
Lower Lim.	0.00014	0.00015	0.00035	0.00018	7E-05

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 4/25/2024 4:22 PM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	YGWC-38	YGWC-41	YGWC-42	YGWC-49	PZ-35
8/30/2016			<0.0005		
9/1/2016				<0.0005	
11/15/2016				<0.0005	
11/16/2016			<0.0005		
2/27/2017			<0.0005	7E-05 (J)	
5/9/2017				<0.0005	
5/10/2017			0.0002 (J)		
7/11/2017			0.0005 (J)		
7/13/2017				<0.0005	
10/11/2017				<0.0005	
10/12/2017	0.003	0.0002 (J)	0.0006 (J)		
11/20/2017	0.0027				
11/21/2017		0.0003 (J)			
1/11/2018		0.0002 (J)			
1/12/2018	0.0029				
2/19/2018		<0.0005			
2/20/2018	0.0029				
4/3/2018	0.0027	<0.0005			
4/4/2018			<0.0005	<0.0005	
6/27/2018		0.00025 (J)			
6/28/2018	0.0029				
8/7/2018	0.0027	0.00024 (J)			
9/20/2018			0.0002 (J)	<0.0005	
9/24/2018	0.0027	0.00021 (J)			
10/16/2018					<0.0005
8/22/2019	0.0023 (J)	0.00015 (J)	0.00017 (J)		
9/26/2019				<0.0005	<0.0005
10/9/2019	0.0021 (J)	0.00017 (J)	0.00025 (J)		
3/25/2020	0.0018 (J)	0.00018 (J)	0.00021 (J)	<0.0005	0.00016 (J)
9/24/2020			0.00014 (J)	<0.0005	<0.0005
9/25/2020	0.0015 (J)	0.00014 (J)			
2/9/2021	0.0014 (J)			<0.0005	
2/10/2021		<0.0005	<0.0005		<0.0005
3/4/2021	0.0013	<0.0005	<0.0005	<0.0005	<0.0005
8/25/2021			<0.0005		
8/26/2021	0.0011	<0.0005			
9/1/2021				<0.0005	<0.0005
2/8/2022		0.00012 (J)		<0.0005	
2/10/2022	0.0011		<0.0005		<0.0005
8/31/2022				<0.0005	0.00011 (J)
9/1/2022	0.00094	<0.0005	<0.0005		
2/8/2023	0.00068	<0.0005	0.00014 (J)		
2/9/2023				<0.0005	0.00025 (J)
8/16/2023	0.00074	<0.0005	<0.0005	<0.0005	0.0002 (J)
2/21/2024				<0.0005	
2/22/2024	0.00074	<0.0005	<0.0005		
2/23/2024					0.00027 (J)
Mean	0.00191	0.000333	0.0003955	0.0004774	0.0003742
Std. Dev.	0.0008623	0.0001596	0.00016	9.865E-05	0.0001604
Upper Lim.	0.0024	0.0005	0.0005	0.0005	0.0005
Lower Lim.	0.00142	0.00018	0.0002	7E-05	0.00016

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 4/25/2024 4:22 PM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	PZ-37	YGWC-36A	PZ-51
9/2/2016		<0.001	
11/14/2016		9E-05 (J)	
2/28/2017		0.0001 (J)	
5/9/2017		0.0002 (J)	
7/13/2017		0.0002 (J)	
9/22/2017		0.0002 (J)	
9/29/2017		0.0002 (J)	
10/6/2017		0.0002 (J)	
10/12/2017	0.0002 (J)		
11/21/2017	0.0002 (J)		
1/11/2018	0.0004 (J)		
2/20/2018	<0.001		
3/30/2018		<0.001	
4/3/2018	<0.001		
6/13/2018		0.00019 (J)	
6/29/2018	0.00099 (J)		
8/6/2018	0.00063 (J)		
9/24/2018	0.00069 (J)		
9/26/2018		0.00018 (J)	
3/6/2019		0.00015 (J)	
4/4/2019		0.00019 (J)	
9/26/2019		0.00017 (J)	
3/25/2020		0.00019 (J)	
9/25/2020	0.00039 (J)		
10/7/2020		0.00012 (J)	
2/9/2021	0.00042 (J)		
2/10/2021		<0.0005	
3/4/2021	0.00028 (J)	<0.0005	
8/25/2021	0.00094		
9/3/2021		<0.0005	
2/10/2022	0.00093		0.0019
2/11/2022		<0.0005	
9/1/2022	0.0009	<0.0005	0.0017
2/8/2023	0.00076		
2/9/2023		<0.0005	0.0018
8/16/2023		<0.0005	0.0017
8/17/2023	0.00085		
2/21/2024	0.00086		
2/22/2024			0.0017
2/23/2024		<0.0005	
Mean	0.0006141	0.0004578	0.00176
Std. Dev.	0.0002724	0.0001267	8.944E-05
Upper Lim.	0.0007848	0.0005	0.0019
Lower Lim.	0.0004435	0.00012	0.0017

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 4/25/2024 4:22 PM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5
3/25/2020	0.00058 (J)				
9/23/2020		0.00071 (J)		<0.005	
9/24/2020	0.00074 (J)				<0.005
2/9/2021	0.001 (J)	0.0011 (J)		0.00057 (J)	<0.005
3/3/2021	0.00076 (J)	0.0012 (J)		<0.005	
3/4/2021					<0.005
8/25/2021				<0.005	
8/26/2021					<0.005
9/1/2021	<0.005	0.003 (J)			
2/10/2022	0.0013 (J)	<0.005	0.0011 (J)	<0.005	0.0016 (J)
8/31/2022	<0.005				
9/1/2022		<0.005	<0.005	<0.005	<0.005
2/8/2023		<0.005		<0.005	<0.005
2/9/2023	<0.005		<0.005		
8/16/2023	<0.005		<0.005	<0.005	<0.005
8/17/2023		<0.005			
2/21/2024			<0.005		
2/22/2024		<0.005		<0.005	<0.005
2/23/2024	<0.005				
Mean	0.002938	0.003446	0.00422	0.004508	0.004622
Std. Dev.	0.002182	0.001946	0.001744	0.001477	0.001133
Upper Lim.	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.00074	0.00071	0.0011	0.00057	0.0016

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 4/25/2024 4:22 PM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	YGWC-23S	YGWC-38	YGWC-41	YGWC-42	YGWC-43
6/7/2016	<0.005				
7/28/2016	0.0008 (J)				
8/30/2016				<0.005	
8/31/2016					<0.005
9/20/2016	<0.005				
11/8/2016	<0.005				
11/16/2016				<0.005	<0.005
1/16/2017	<0.005				
2/24/2017					<0.005
2/27/2017				<0.005	
3/9/2017	<0.005				
5/2/2017	0.0007 (J)				
5/10/2017				0.0006 (J)	0.0005 (J)
7/10/2017	<0.005				
7/11/2017				<0.005	<0.005
10/12/2017		0.0005 (J)	<0.005	<0.005	<0.005
11/20/2017		<0.005			
11/21/2017			<0.005		
1/11/2018			<0.005		
1/12/2018		<0.005			
2/19/2018			<0.005		
2/20/2018		<0.005			
3/30/2018	<0.005				
4/3/2018		<0.005	<0.005		
4/4/2018				<0.005	<0.005
6/27/2018			<0.005		
6/28/2018		<0.005			
8/7/2018		<0.005	<0.005		
9/20/2018				<0.005	<0.005
9/24/2018		<0.005	<0.005		
3/6/2019	<0.005				
8/21/2019					0.00062 (J)
8/22/2019		<0.005	<0.005	<0.005	
10/9/2019		<0.005	<0.005	0.00043 (J)	0.00074 (J)
3/25/2020		0.00065 (J)	0.00039 (J)	0.0013 (J)	<0.005
3/26/2020	0.0019 (J)				
9/24/2020	0.0011 (J)			<0.005	
9/25/2020		<0.005	<0.005		0.00071 (J)
2/9/2021	0.00086 (J)	<0.005			<0.005
2/10/2021			<0.005	<0.005	
3/4/2021	0.00078 (J)	<0.005	<0.005	<0.005	<0.005
8/25/2021	<0.005			<0.005	
8/26/2021		<0.005	<0.005		
9/27/2021					<0.005
2/8/2022			<0.005		<0.005
2/10/2022	<0.005	<0.005		<0.005	
9/1/2022	<0.005	<0.005	<0.005	<0.005	<0.005
2/8/2023	0.0014 (J)	<0.005	<0.005	<0.005	<0.005
8/16/2023	<0.005	<0.005	<0.005	<0.005	<0.005
2/21/2024	<0.005				
2/22/2024		<0.005	<0.005	<0.005	<0.005
Mean	0.003627	0.004557	0.004769	0.004366	0.004128

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 4/25/2024 4:22 PM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	YGWC-23S	YGWC-38	YGWC-41	YGWC-42	YGWC-43
Std. Dev.	0.001935	0.001362	0.001031	0.001554	0.001789
Upper Lim.	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.0011	0.00065	0.00039	0.0013	0.00074

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 4/25/2024 4:22 PM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	YGWC-49	PZ-35	PZ-37	YGWC-36A	PZ-52D
9/1/2016	0.0013 (J)				
9/2/2016				<0.005	
11/14/2016				0.0035	
11/15/2016	0.0014 (J)				
2/27/2017	0.0016 (J)				
2/28/2017				<0.005	
5/9/2017	0.0017 (J)			<0.005	
7/13/2017	0.0019 (J)			<0.005	
9/22/2017				<0.005	
9/29/2017				<0.005	
10/6/2017				<0.005	
10/11/2017	0.0014 (J)				
10/12/2017			0.0019 (J)		
11/21/2017			0.0017 (J)		
1/11/2018			0.001 (J)		
2/20/2018			<0.005		
3/30/2018				<0.005	
4/3/2018			<0.005		
4/4/2018	<0.01				
6/29/2018			<0.005		
8/6/2018			<0.005		
9/20/2018	0.0017 (J)				
9/24/2018			<0.005		
3/6/2019				<0.005	
3/25/2020	0.0019 (J)	0.0012 (J)		0.00074 (J)	
9/24/2020	0.0019 (J)	0.00061 (J)			
9/25/2020			<0.005		
10/7/2020				0.0013 (J)	
2/9/2021	0.002 (J)		<0.005		
2/10/2021		0.0006 (J)		0.00094 (J)	
3/4/2021	0.0017 (J)	0.0007 (J)	<0.005	<0.005	
8/25/2021			<0.005		
9/1/2021	0.002 (J)	<0.005			
9/3/2021				<0.005	
2/8/2022	0.0021 (J)				
2/10/2022		<0.005	<0.005		
2/11/2022				<0.005	0.0011 (J)
8/31/2022	0.002 (J)	<0.005			
9/1/2022			<0.005	<0.005	<0.005
2/8/2023			<0.005		<0.005
2/9/2023	0.002 (J)	0.0016 (J)		<0.005	
8/16/2023	0.0017 (J)	<0.005		<0.005	
8/17/2023			<0.005		<0.005
2/21/2024	0.0021 (J)		<0.005		<0.005
2/23/2024		<0.005		<0.005	
Mean	0.001967	0.002971	0.004388	0.004324	0.00422
Std. Dev.	0.0007956	0.002159	0.001372	0.001477	0.001744
Upper Lim.	0.002	0.005	0.005	0.005	0.005
Lower Lim.	0.0016	0.00061	0.0019	0.0035	0.0011

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 4/25/2024 4:22 PM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	YGWC-24SB
6/8/2016	<0.005
8/1/2016	<0.005
9/20/2016	<0.005
11/8/2016	<0.005
1/17/2017	<0.005
3/8/2017	<0.005
5/2/2017	0.0011 (J)
7/7/2017	<0.005
3/30/2018	<0.005
3/5/2019	<0.005
3/26/2020	0.00094 (J)
9/23/2020	<0.005
2/9/2021	0.0011 (J)
3/3/2021	<0.005
9/1/2021	<0.005
2/10/2022	<0.005
2/10/2023	<0.005
8/16/2023	<0.005
2/23/2024	<0.005
Mean	0.004376
Std. Dev.	0.001481
Upper Lim.	0.005
Lower Lim.	0.0011

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/25/2024 4:22 PM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-4	YAMW-5	YGWC-41
10/12/2017					0.0011 (J)
11/21/2017					0.0003 (J)
1/11/2018					0.0003 (J)
2/19/2018					<0.005
4/3/2018					<0.005
6/27/2018					0.00069 (J)
8/7/2018					<0.005
9/24/2018					<0.005
10/16/2018	0.032				
8/22/2019					<0.005
9/26/2019	0.015				
10/9/2019					<0.005
1/3/2020	<0.005				
3/25/2020	<0.005				<0.005
9/23/2020		0.0025 (J)	0.00052 (J)		
9/24/2020	0.01			0.00077 (J)	
9/25/2020					<0.005
2/9/2021	0.03	0.001 (J)	0.00063 (J)	<0.005	
2/10/2021					<0.005
3/3/2021	0.018	0.00082 (J)	0.001 (J)		
3/4/2021				<0.005	<0.005
8/25/2021			0.00041 (J)		
8/26/2021				<0.005	<0.005
9/1/2021	0.022	0.00093 (J)			
2/8/2022					<0.005
2/10/2022	0.011	0.00052 (J)	0.00044 (J)	<0.005	
8/31/2022	0.0041 (J)				
9/1/2022		0.0068	0.00048 (J)	<0.005	<0.005
2/8/2023		<0.005	0.00085 (J)	<0.005	<0.005
2/9/2023	0.0045 (J)				
8/16/2023	0.0027 (J)		<0.005	<0.005	<0.005
8/17/2023		0.0053			
2/22/2024		0.00044 (J)	<0.005	<0.005	<0.005
2/23/2024	0.0044 (J)				
Mean	0.01259	0.002312	0.001592	0.00453	0.004119
Std. Dev.	0.01013	0.002283	0.001942	0.00141	0.001813
Upper Lim.	0.01819	0.004187	0.005	0.005	0.005
Lower Lim.	0.004993	0.0004804	0.00041	0.00077	0.0011

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/25/2024 4:22 PM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	YGWC-42	YGWC-43	YGWC-49	PZ-35	PZ-37
8/30/2016	0.0025 (J)				
8/31/2016		<0.005			
9/1/2016			<0.005		
11/15/2016			0.0006 (J)		
11/16/2016	0.002 (J)	<0.005			
2/24/2017		<0.005			
2/27/2017	0.0021 (J)		0.0008 (J)		
5/9/2017			<0.005		
5/10/2017	0.0021 (J)	<0.005			
7/11/2017	0.0014 (J)	<0.005			
7/13/2017			0.0005 (J)		
10/11/2017			0.0006 (J)		
10/12/2017	0.0017 (J)	0.0006 (J)			0.0078 (J)
11/21/2017					0.0097 (J)
1/11/2018					0.0131
2/20/2018					0.0162
4/3/2018					0.015
4/4/2018	<0.005	<0.005	<0.005		
6/29/2018					0.013
8/6/2018					0.0053 (J)
9/20/2018	0.003 (J)	0.0034 (J)	<0.005		
9/24/2018					0.0071 (J)
10/16/2018				<0.005	
8/21/2019		0.0026 (J)			
8/22/2019	0.0019 (J)				
9/26/2019			<0.005	<0.005	
10/9/2019	0.0019 (J)	0.0023 (J)			
3/25/2020	0.0018 (J)	0.0016 (J)	<0.005	0.0059	
9/24/2020	0.0017 (J)		<0.005	<0.005	
9/25/2020		0.0018 (J)			0.0023 (J)
2/9/2021		0.0017 (J)	<0.005		0.0023 (J)
2/10/2021	0.0019 (J)			<0.005	
3/4/2021	0.0018 (J)	0.0015 (J)	<0.005	<0.005	0.003 (J)
8/25/2021	0.0014 (J)				0.0068
9/1/2021			<0.005	<0.005	
9/27/2021		<0.005			
2/8/2022		0.00045 (J)	<0.005		
2/10/2022	0.0017 (J)			<0.005	0.0036 (J)
8/31/2022			<0.005	<0.005	
9/1/2022	0.0015 (J)	0.0005 (J)			0.0025 (J)
2/8/2023	0.0018 (J)	0.00049 (J)			0.0022 (J)
2/9/2023			<0.005	<0.005	
8/16/2023	0.0014 (J)	0.00046 (J)	<0.005	<0.005	
8/17/2023					0.0027 (J)
2/21/2024			<0.005		0.0017 (J)
2/22/2024	0.0023 (J)	0.00038 (J)			
2/23/2024				<0.005	
Mean	0.00192	0.002639	0.004079	0.005075	0.006724
Std. Dev.	0.0004124	0.001942	0.001833	0.0002598	0.004956
Upper Lim.	0.002154	0.005	0.005	0.0059	0.008837
Lower Lim.	0.001686	0.0005	0.0008	0.005	0.003309

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/25/2024 4:22 PM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	YGWC-36A	PZ-52D	PZ-51
9/2/2016	0.0006 (J)		
11/14/2016	<0.005		
2/28/2017	<0.005		
5/9/2017	<0.005		
7/13/2017	<0.005		
9/22/2017	<0.005		
9/29/2017	<0.005		
10/6/2017	<0.005		
3/30/2018	<0.005		
6/13/2018	<0.005		
9/26/2018	<0.005		
3/6/2019	<0.005		
4/4/2019	<0.005		
9/26/2019	0.00048 (J)		
3/25/2020	0.00038 (J)		
10/7/2020	0.00086 (J)		
2/10/2021	0.00038 (J)		
3/4/2021	<0.005		
9/3/2021	<0.005		
2/10/2022			0.033
2/11/2022	<0.005	0.0011 (J)	
9/1/2022	<0.005	0.0016 (J)	0.018
2/8/2023		0.0026 (J)	
2/9/2023	<0.005		0.0071
8/16/2023	<0.005		0.0056
8/17/2023		0.0031 (J)	
2/21/2024		0.0029 (J)	
2/22/2024			0.0051
2/23/2024	<0.005		
Mean	0.004071	0.00226	0.01376
Std. Dev.	0.001852	0.0008678	0.01198
Upper Lim.	0.005	0.003714	0.03383
Lower Lim.	0.00086	0.0008059	0

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/25/2024 4:22 PM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-4	YAMW-5	YGWC-23S
6/7/2016					0.303 (U)
7/28/2016					0.386 (U)
9/20/2016					1.47
11/8/2016					0.22 (U)
1/16/2017					0.147 (U)
3/9/2017					0.0892 (U)
5/2/2017					0.149 (U)
7/10/2017					0.815 (U)
3/30/2018					0.659 (U)
6/12/2018					1.03 (U)
9/27/2018					1.06 (U)
10/16/2018	0.384 (U)				
3/6/2019					0.736 (U)
4/4/2019					0.474 (U)
9/27/2019					0.684 (U)
3/25/2020	0.525 (U)				
3/26/2020					0.281 (U)
9/23/2020		0.0813 (U)	1.2 (U)		
9/24/2020	0.547 (U)			0.668 (U)	0.788 (U)
2/9/2021	0.866 (U)	0.492 (U)	0.659 (U)	1.07 (U)	0.464 (U)
3/3/2021	0.377 (U)	0.563 (U)	1.07		
3/4/2021				1.46	0.771 (U)
8/25/2021			0.0991 (U)		0.624 (U)
8/26/2021				0.724 (U)	
9/1/2021	0.676 (U)	0.761 (U)			
2/10/2022	0.233 (U)	0 (U)	0.702 (U)	1.25 (U)	0.197 (U)
8/31/2022	0.313 (U)				
9/1/2022		0.959 (U)	0.381 (U)	0.811 (U)	1.23 (U)
2/8/2023		0.0994 (U)	0.239 (U)	0.502 (U)	0.4 (U)
2/9/2023	0.595 (U)				
8/16/2023	0.575 (U)		0.431 (U)	0.858 (U)	0.502 (U)
8/17/2023		0.686 (U)			
2/21/2024					0.345 (U)
2/22/2024		0.463 (U)	0.196 (U)	0.606 (U)	
2/23/2024	0.566 (U)				
Mean	0.5143	0.4561	0.553	0.8832	0.576
Std. Dev.	0.1787	0.333	0.3866	0.3166	0.3634
Upper Lim.	0.6632	0.7776	0.9263	1.189	0.7615
Lower Lim.	0.3654	0.1345	0.1797	0.5776	0.3906

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/25/2024 4:22 PM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	YGWC-38	YGWC-41	YGWC-42	YGWC-43	YGWC-49
8/30/2016			2.99		
8/31/2016				0.926 (U)	
9/1/2016					1.2
11/15/2016					0.645 (U)
11/16/2016			4.01	0.773 (U)	
2/24/2017				0.661 (U)	
2/27/2017			2.5		0.244 (U)
5/9/2017					0.519 (U)
5/10/2017			2.55	1.27	
7/11/2017			3.94	1.02	
7/13/2017					0.5 (U)
10/11/2017					1.41
10/12/2017	1.24	0.641 (U)	3.57	1.58	
11/20/2017	0.342 (U)				
11/21/2017		2.01			
1/11/2018		0.919 (U)			
1/12/2018	1.04				
2/19/2018		1.82			
2/20/2018	1.6 (U)				
4/3/2018	0.726 (U)	0.911 (U)			
4/4/2018			1.9	1.71	0.442 (U)
6/27/2018		0.429 (U)			
6/28/2018	1.06 (U)				
8/7/2018	1.21	0.579 (U)			
9/20/2018			1.94	2.8	1.14 (U)
9/24/2018	1.52	1.39			
8/21/2019				3.16	
8/22/2019	1.97	2.03	1.59		
9/26/2019					1.16 (U)
10/8/2019	0.751 (U)	0.609 (U)	0.995 (U)	3.65	
3/25/2020	0.321 (U)	0.568 (U)	1.17 (U)	3.04	1.2 (U)
9/24/2020			0.751 (U)		1.57 (U)
9/25/2020	0.246 (U)	0.769 (U)		4.75	
2/9/2021	0.626 (U)			6.38	0.137 (U)
2/10/2021		0.548 (U)	0.612 (U)		
3/4/2021	0.816 (U)	1.23	1.02	6.02	0.579 (U)
8/25/2021			0.978 (U)		
8/26/2021	0.427 (U)	0.356 (U)			
9/1/2021					0.686 (U)
9/27/2021				1.54	
2/8/2022		0.594 (U)		3.11	0.201 (U)
2/10/2022	0.791 (U)		0.307 (U)		
8/31/2022					0.823 (U)
9/1/2022	0.52 (U)	0.0906 (U)	0.596 (U)	4.16	
2/8/2023	0.361 (U)	0.852 (U)	0.817	3.73	
2/9/2023					0.667 (U)
8/16/2023	0.617 (U)	1.23	1.08 (U)	4.92	0.982 (U)
2/21/2024					0.595 (U)
2/22/2024	0.416 (U)	0.752 (U)	1.05 (U)	4.56	
Mean	0.83	0.9164	1.718	2.988	0.7737
Std. Dev.	0.4797	0.5432	1.16	1.771	0.4151
Upper Lim.	1.102	1.225	2.377	3.993	1.017

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/25/2024 4:22 PM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	YGWC-38	YGWC-41	YGWC-42	YGWC-43	YGWC-49
Lower Lim.	0.5576	0.608	1.06	1.983	0.5306

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/25/2024 4:22 PM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	YGWC-24SB
6/8/2016					1.06
8/1/2016					0.467 (U)
9/2/2016			0.873 (U)		
9/20/2016					0.853 (U)
9/22/2016			0.667 (U)		
9/29/2016			1.63		
10/6/2016			0.641 (U)		
11/8/2016					0.433 (U)
11/14/2016			0.0451 (U)		
1/17/2017					0.0759 (U)
2/28/2017			1.34 (U)		
3/8/2017					0.479 (U)
5/2/2017					0.506 (U)
5/9/2017			0.309 (U)		
7/7/2017					0.713 (U)
7/13/2017			0.618 (U)		
10/12/2017		1.83			
11/21/2017		1.33			
1/11/2018		1.53			
2/20/2018		2.75			
3/30/2018			0.721 (U)		0.409 (U)
4/3/2018		1.47			
6/12/2018					0.728 (U)
6/13/2018			1.04 (U)		
6/29/2018		1.69			
8/6/2018		1.69			
9/24/2018		2.26			
9/26/2018			0.604 (U)		0.981
10/16/2018	0.363 (U)				
3/5/2019					0.837 (U)
3/6/2019			0.919 (U)		
4/4/2019			1.05 (U)		
4/9/2019					0.502 (U)
9/26/2019			0.979 (U)		0.964 (U)
3/25/2020	0.197 (U)		1.22 (U)		
3/26/2020					0.511 (U)
9/23/2020					0.786 (U)
9/24/2020	1.07 (U)				
9/25/2020		1.68 (U)			
10/7/2020			1.58		
2/9/2021		1.52			0.678 (U)
2/10/2021	0.546 (U)		0.466 (U)		
3/3/2021					0.415 (U)
3/4/2021	0.397 (U)	1.49	0.0671 (U)		
8/25/2021		1.41			
9/1/2021	0.696 (U)				0.444 (U)
9/3/2021			0.622 (U)	3.18	
2/10/2022	1.25 (U)	0.81 (U)			0.846 (U)
2/11/2022			0.395 (U)	0.815 (U)	
8/31/2022	0.326 (U)				
9/1/2022		0.463 (U)	0.189 (U)	2.54	
2/8/2023		0.742 (U)		2.37	

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/25/2024 4:22 PM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	YGWC-24SB
2/9/2023	0.718 (U)		0.326 (U)		
2/10/2023					0.137 (U)
8/16/2023	0.643 (U)		0.319 (U)	2.05	0.889 (U)
8/17/2023		1.9			
2/21/2024		0.789 (U)		1.78	
2/23/2024	0.824 (U)		0.536 (U)		0.311 (U)
Mean	0.6391	1.491	0.7148	2.123	0.6098
Std. Dev.	0.3224	0.5692	0.4393	0.7982	0.2676
Upper Lim.	0.9078	1.848	0.939	3.219	0.7497
Lower Lim.	0.3704	1.135	0.4907	1.026	0.4698

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 4/25/2024 4:22 PM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWC-23S
6/7/2016					<0.1
7/28/2016					0.03 (J)
9/20/2016					<0.1
11/8/2016					<0.1
1/16/2017					<0.1
3/9/2017					<0.1
5/2/2017					<0.1
7/10/2017					<0.1
10/11/2017					<0.1
3/30/2018					<0.1
6/12/2018					<0.1
9/27/2018					<0.1
3/6/2019					<0.1
4/4/2019					0.049 (J)
9/27/2019					0.12 (J)
3/26/2020					<0.1
9/23/2020	<0.1		<0.1		
9/24/2020				<0.1	<0.1
2/9/2021	<0.1		0.14	<0.1	<0.1
3/3/2021	<0.1		0.14		
3/4/2021				<0.1	<0.1
8/25/2021			<0.1		<0.1
8/26/2021				<0.1	
9/1/2021	<0.1				
2/10/2022	<0.1	<0.1	<0.1	<0.1	<0.1
9/1/2022	0.063 (J)	0.091 (J)	0.078 (J)	0.055 (J)	0.057 (J)
2/8/2023	0.061 (J)		0.079 (J)	0.05 (J)	<0.1
2/9/2023		0.079 (J)			
8/16/2023		0.081 (J)	<0.1	<0.1	<0.1
8/17/2023	<0.1				
2/21/2024		0.066 (J)			<0.1
2/22/2024	0.05 (J)		0.061 (J)	<0.1	
Mean	0.086	0.0834	0.09978	0.08944	0.09424
Std. Dev.	0.02129	0.01286	0.02656	0.02098	0.01928
Upper Lim.	0.1	0.09416	0.1019	0.1	0.1
Lower Lim.	0.05	0.06434	0.05838	0.05	0.057

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 4/25/2024 4:22 PM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	YGWC-38	YGWC-41	YGWC-42	YGWC-43	YGWC-49
8/30/2016			0.02 (J)		
8/31/2016				0.12 (J)	
9/1/2016					0.09 (J)
11/15/2016					0.16 (J)
11/16/2016			0.07 (J)	0.2 (J)	
2/24/2017				0.21 (J)	
2/27/2017			0.06 (J)		0.06 (J)
5/9/2017					0.05 (J)
5/10/2017			<0.1	0.04 (J)	
7/11/2017			<0.1	0.2 (J)	
7/13/2017					<0.1
10/11/2017					0.14 (J)
10/12/2017	<0.1	<0.1	<0.1	0.1 (J)	
11/20/2017	0.2 (J)				
11/21/2017		<0.1			
1/11/2018		<0.1			
1/12/2018	0.21 (J)				
2/19/2018		<0.1			
2/20/2018	<0.1				
4/3/2018	0.41	<0.1			
4/4/2018			<0.1	<0.1	<0.1
6/27/2018		<0.1			
6/28/2018	0.43				
8/7/2018	<0.1	0.11 (J)			
9/20/2018			0.041 (J)	<0.1	<0.1
9/24/2018	0.034 (J)	<0.1			
3/27/2019	0.24 (J)		<0.1		
3/28/2019		0.1 (J)		0.078 (J)	<0.1
8/21/2019				0.062 (J)	
8/22/2019	<0.1	<0.1	<0.1		
9/26/2019					0.09 (J)
10/9/2019	<0.1	<0.1	<0.1	<0.1	
3/25/2020	<0.1	<0.1	<0.1	0.073 (J)	<0.1
9/24/2020			<0.1		<0.1
9/25/2020	<0.1	<0.1		<0.1	
2/9/2021	<0.1			0.058 (J)	<0.1
2/10/2021		<0.1	<0.1		
3/4/2021	<0.1	<0.1	<0.1	0.063 (J)	<0.1
8/25/2021			<0.1		
8/26/2021	<0.1	<0.1			
9/1/2021					<0.1
9/27/2021				0.1	
2/8/2022		<0.1		0.066 (J)	<0.1
2/10/2022	<0.1		<0.1		
8/31/2022					<0.1
9/1/2022	<0.1	<0.1	0.053 (J)	0.091 (J)	
2/8/2023	<0.1	<0.1	0.08 (J)	0.11	
2/9/2023					<0.1
8/16/2023	<0.1	<0.1	<0.1	0.062 (J)	<0.1
2/21/2024					<0.1
2/22/2024	<0.1	<0.1	<0.1	0.091 (J)	
Mean	0.144	0.1005	0.08686	0.1011	0.0995

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 4/25/2024 4:22 PM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	YGWC-38	YGWC-41	YGWC-42	YGWC-43	YGWC-49
Std. Dev.	0.1026	0.002182	0.02384	0.04729	0.02235
Upper Lim.	0.2	0.11	0.1	0.1023	0.14
Lower Lim.	0.1	0.1	0.07	0.06036	0.09

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 4/25/2024 4:22 PM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51
9/2/2016		0.05 (J)			
11/14/2016		0.18 (J)			
2/28/2017		0.09 (J)			
5/9/2017		0.009 (J)			
7/13/2017		<0.1			
9/22/2017		0.09 (J)			
9/29/2017		<0.1			
10/6/2017		<0.1			
10/11/2017		<0.1			
10/12/2017	<0.1				
11/21/2017	0.26 (J)				
1/11/2018	<0.1				
2/20/2018	0.45				
3/30/2018		<0.1			
4/3/2018	0.31				
6/13/2018		<0.1			
6/29/2018	<0.1				
8/6/2018	0.23 (J)				
9/24/2018	<0.1				
9/26/2018		<0.1			
3/6/2019		<0.1			
4/4/2019		0.043 (J)			
9/26/2019		0.094 (J)			
3/25/2020		<0.1			
9/25/2020	<0.1				
10/7/2020		<0.1			
2/9/2021	<0.1				
2/10/2021		<0.1			
3/4/2021	<0.1	<0.1			
8/25/2021	<0.1				
9/3/2021		<0.1	0.15		
2/10/2022	<0.1				0.1
2/11/2022		<0.1	0.17	0.1	
9/1/2022	<0.1	<0.1	0.35	0.11	0.13
2/8/2023	<0.1		0.2	0.07 (J)	
2/9/2023		<0.1			0.13
8/16/2023		<0.1	0.23		0.097 (J)
8/17/2023	<0.1			0.059 (J)	
2/21/2024	<0.1		0.21	0.053 (J)	
2/22/2024					0.14
2/23/2024		<0.1			
Mean	0.15	0.09424	0.2183	0.0784	0.1194
Std. Dev.	0.102	0.02875	0.07055	0.02528	0.01954
Upper Lim.	0.23	0.1	0.3152	0.1208	0.1521
Lower Lim.	0.1	0.094	0.1214	0.03603	0.08666

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 4/25/2024 4:22 PM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	YGWC-24SB
6/8/2016	<0.1
8/1/2016	<0.1
9/20/2016	<0.1
11/8/2016	<0.1
1/17/2017	<0.1
3/8/2017	<0.1
5/2/2017	<0.1
7/7/2017	<0.1
10/5/2017	<0.1
3/30/2018	<0.1
6/12/2018	<0.1
9/26/2018	<0.1
3/5/2019	<0.1
4/4/2019	0.033 (J)
9/26/2019	0.098 (J)
3/26/2020	<0.1
9/23/2020	<0.1
2/9/2021	<0.1
3/3/2021	<0.1
9/1/2021	<0.1
2/10/2022	<0.1
2/10/2023	0.051 (J)
8/16/2023	<0.1
2/23/2024	<0.1
Mean	0.09508
Std. Dev.	0.01657
Upper Lim.	0.1
Lower Lim.	0.098

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 4/25/2024 4:22 PM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-4	YAMW-5	YGWC-23S
6/7/2016					0.00044 (J)
7/28/2016					<0.001
9/20/2016					<0.001
11/8/2016					<0.001
1/16/2017					<0.001
3/9/2017					<0.001
5/2/2017					<0.001
7/10/2017					<0.001
3/30/2018					<0.001
3/6/2019					<0.001
4/4/2019					<0.001
9/26/2019	<0.001				
9/27/2019					0.00013 (J)
3/25/2020	<0.001				
3/26/2020					<0.001
9/23/2020		<0.001	0.00028 (J)		
9/24/2020	<0.001			0.00011 (J)	4.6E-05 (J)
2/9/2021	0.00019 (J)	0.00011 (J)	0.00054 (J)	7.3E-05 (J)	<0.001
3/3/2021	<0.001	8E-05 (J)	9.6E-05 (J)		
3/4/2021				4.1E-05 (J)	0.00021 (J)
8/25/2021			<0.001		<0.001
8/26/2021				<0.001	
9/1/2021	<0.001	<0.001			
2/10/2022	<0.001	<0.001	<0.001	<0.001	<0.001
8/31/2022	<0.001				
9/1/2022		<0.001	<0.001	<0.001	<0.001
2/8/2023		<0.001	<0.001	<0.001	<0.001
2/9/2023	<0.001				
8/16/2023	<0.001		<0.001	<0.001	<0.001
8/17/2023		<0.001			
2/21/2024					<0.001
2/22/2024		<0.001	<0.001	<0.001	
2/23/2024	<0.001				
Mean	0.0009264	0.0007989	0.0007684	0.0006916	0.0008557
Std. Dev.	0.0002442	0.0003991	0.0003648	0.000463	0.0003197
Upper Lim.	0.001	0.001	0.001	0.001	0.001
Lower Lim.	0.001	8E-05	9.6E-05	4.1E-05	0.00044

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 4/25/2024 4:22 PM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	YGWC-38	YGWC-41	YGWC-42	YGWC-43	YGWC-49
8/30/2016			<0.001		
8/31/2016				<0.001	
9/1/2016					<0.001
11/15/2016					<0.001
11/16/2016			0.0002 (J)	<0.001	
2/24/2017				<0.001	
2/27/2017			<0.001		<0.001
5/9/2017					<0.001
5/10/2017			9E-05 (J)	8E-05 (J)	
7/11/2017			<0.001	<0.001	
7/13/2017					<0.001
10/11/2017					<0.001
10/12/2017	0.0001 (J)	<0.001	<0.001	<0.001	
11/20/2017	0.0001 (J)				
11/21/2017		<0.001			
1/11/2018		7E-05 (J)			
1/12/2018	0.0001 (J)				
2/19/2018		<0.001			
2/20/2018	<0.001				
4/3/2018	<0.001	<0.001			
4/4/2018			<0.001	<0.001	<0.001
6/27/2018		0.0011 (J)			
6/28/2018	<0.001				
8/7/2018	<0.001	<0.001			
9/20/2018			<0.001	<0.001	<0.001
9/24/2018	<0.001	<0.001			
8/21/2019				<0.001	
8/22/2019	<0.001	6.7E-05 (J)	<0.001		
9/26/2019					<0.001
10/9/2019	<0.001	0.00012 (J)	<0.001	<0.001	
3/25/2020	<0.001	<0.001	4.7E-05 (J)	7.5E-05 (J)	5.9E-05 (J)
9/24/2020			<0.001		<0.001
9/25/2020	<0.001	<0.001		<0.001	
2/9/2021	<0.001			<0.001	<0.001
2/10/2021		0.0002 (J)	5.4E-05 (J)		
3/4/2021	<0.001	<0.001	<0.001	<0.001	<0.001
8/25/2021			<0.001		
8/26/2021	<0.001	<0.001			
9/1/2021					<0.001
9/27/2021				<0.001	
2/8/2022		<0.001		<0.001	<0.001
2/10/2022	<0.001		<0.001		
8/31/2022					<0.001
9/1/2022	<0.001	<0.001	<0.001	<0.001	
2/8/2023	<0.001	<0.001	<0.001	<0.001	
2/9/2023					<0.001
8/16/2023	<0.001	<0.001	<0.001	<0.001	<0.001
2/21/2024					<0.001
2/22/2024	<0.001	<0.001	<0.001	<0.001	
Mean	0.000865	0.0008279	0.0008196	0.0009078	0.0009505
Std. Dev.	0.0003297	0.0003676	0.0003713	0.0002839	0.0002159
Upper Lim.	0.001	0.0011	0.001	0.001	0.001

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 4/25/2024 4:22 PM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	YGWC-38	YGWC-41	YGWC-42	YGWC-43	YGWC-49
Lower Lim.	0.0001	0.0002	0.0002	8E-05	5.9E-05

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 4/25/2024 4:22 PM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-52D	YGWC-24SB
6/8/2016					<0.001
8/1/2016					<0.001
9/2/2016			0.0017 (J)		
9/20/2016					<0.001
11/8/2016					<0.001
11/14/2016			0.0002 (J)		
1/17/2017					<0.001
2/28/2017			0.0003 (J)		
3/8/2017					<0.001
5/2/2017					<0.001
5/9/2017			0.0004 (J)		
7/7/2017					<0.001
7/13/2017			0.0004 (J)		
9/22/2017			0.0003 (J)		
9/29/2017			0.0002 (J)		
10/6/2017			0.0002 (J)		
10/12/2017		0.0002 (J)			
11/21/2017		0.0002 (J)			
1/11/2018		0.0001 (J)			
2/20/2018		<0.001			
3/30/2018			<0.001		<0.001
4/3/2018		<0.001			
6/29/2018		<0.001			
8/6/2018		<0.001			
9/24/2018		<0.001			
3/5/2019					<0.001
3/6/2019			<0.001		
4/4/2019			0.00037 (J)		<0.001
9/26/2019	<0.001		0.00023 (J)		<0.001
3/25/2020	<0.001		0.0001 (J)		
3/26/2020					5.3E-05 (J)
9/23/2020					<0.001
9/24/2020	<0.001				
9/25/2020		8.5E-05 (J)			
10/7/2020			0.00077 (J)		
2/9/2021		8.8E-05 (J)			0.00036 (J)
2/10/2021	8.7E-05 (J)		0.00051 (J)		
3/3/2021					<0.001
3/4/2021	0.00015 (J)	<0.001	0.00025 (J)		
8/25/2021		<0.001			
9/1/2021	<0.001				<0.001
9/3/2021			<0.001		
2/10/2022	<0.001	<0.001			<0.001
2/11/2022			<0.001	0.0031	
8/31/2022	<0.001				
9/1/2022		<0.001	<0.001	<0.001	
2/8/2023		<0.001		<0.001	
2/9/2023	<0.001		<0.001		
2/10/2023					<0.001
8/16/2023	<0.001		<0.001		<0.001
8/17/2023		<0.001		0.0014	
2/21/2024		<0.001		<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 4/25/2024 4:22 PM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-52D	YGWC-24SB
2/23/2024	<0.001		<0.001		0.00029 (J)
Mean	0.0008397	0.0007455	0.0006332	0.0015	0.0008906
Std. Dev.	0.0003569	0.0004076	0.0004257	0.000911	0.0002792
Upper Lim.	0.001	0.001	0.0004454	0.0031	0.001
Lower Lim.	0.00015	0.0001	0.0001752	0.001	0.00036

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/25/2024 4:22 PM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	YAMW-1	YAMW-3	YAMW-4	YAMW-5	YGWC-23S
6/7/2016					<0.03
7/28/2016					0.0019 (J)
9/20/2016					0.0021 (J)
11/8/2016					0.0024 (J)
1/16/2017					0.0022 (J)
3/9/2017					0.0025 (J)
5/2/2017					0.0019 (J)
7/10/2017					0.0018 (J)
3/30/2018					0.0039 (J)
6/12/2018					0.0017 (J)
9/27/2018					0.0017 (J)
10/16/2018	0.0052 (J)				
3/6/2019					0.0025 (J)
4/4/2019					0.0018 (J)
9/26/2019	<0.03				
9/27/2019					0.0017 (J)
3/25/2020	0.0011 (J)				
3/26/2020					0.0021 (J)
9/23/2020			0.03 (J)		
9/24/2020	0.011 (J)			0.013 (J)	0.0035 (J)
2/9/2021	0.021 (J)		0.018 (J)	0.016 (J)	0.0026 (J)
3/3/2021	0.022 (J)		0.02 (J)		
3/4/2021				0.016 (J)	0.0026 (J)
8/25/2021			0.033		0.0026 (J)
8/26/2021				0.015 (J)	
9/1/2021	0.013 (J)				
11/17/2021		0.046 (o)			
12/9/2021		0.042 (R)			
2/10/2022	0.014 (J)	0.054	0.036	0.015 (J)	0.0029 (J)
8/31/2022	0.021 (J)				
9/1/2022		0.041	0.032	0.013 (J)	0.0025 (J)
2/8/2023			0.033	0.014 (J)	0.0028 (J)
2/9/2023	0.019 (J)	0.048			
8/16/2023	0.016 (J)	0.04	0.033	0.014 (J)	0.0024 (J)
2/21/2024		0.047			0.0024 (J)
2/22/2024			0.036	0.014 (J)	
2/23/2024	0.017 (J)				
Mean	0.01461	0.04533	0.03011	0.01444	0.002896
Std. Dev.	0.006399	0.005354	0.006585	0.00113	0.002636
Upper Lim.	0.01963	0.05269	0.0353	0.01554	0.0026
Lower Lim.	0.009587	0.03798	0.026	0.01335	0.0019

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/25/2024 4:22 PM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	YGWC-38	YGWC-41	YGWC-43	YGWC-49	PZ-35
8/31/2016			0.006 (J)		
9/1/2016				0.0034 (J)	
11/15/2016				0.0044 (J)	
11/16/2016			0.0095 (J)		
2/24/2017			0.0104 (J)		
2/27/2017				0.0036 (J)	
5/9/2017				0.0038 (J)	
5/10/2017			0.0123 (J)		
7/11/2017			0.0131 (J)		
7/13/2017				0.0036 (J)	
10/11/2017				0.0036 (J)	
10/12/2017	0.0095 (J)	0.004 (J)	0.013 (J)		
11/20/2017	0.0083 (J)				
11/21/2017		0.0043 (J)			
1/11/2018		0.0044 (J)			
1/12/2018	0.0089 (J)				
2/19/2018		<0.03			
2/20/2018	0.0082 (J)				
4/3/2018	0.0097 (J)	0.0047 (J)			
4/4/2018			0.016 (J)	0.0039 (J)	
6/27/2018		0.0042 (J)			
6/28/2018	0.0093 (J)				
8/7/2018	0.0092 (J)	0.0038 (J)			
9/20/2018			0.019 (J)	0.0036 (J)	
9/24/2018	0.0083 (J)	0.0037 (J)			
10/16/2018					0.0011 (J)
8/21/2019			0.015 (J)		
8/22/2019	0.0082 (J)	0.0035 (J)			
9/26/2019				0.0036 (J)	<0.03
10/9/2019	0.0081 (J)	0.0032 (J)	0.018 (J)		
3/25/2020	0.0081 (J)	0.0029 (J)	0.016 (J)	0.0037 (J)	0.011 (J)
9/24/2020				0.0037 (J)	0.001 (J)
9/25/2020	0.0069 (J)	0.0025 (J)	0.018 (J)		
2/9/2021	0.0067 (J)		0.024 (J)	0.0038 (J)	
2/10/2021		0.0021 (J)			0.0012 (J)
3/4/2021	0.0067 (J)	0.0021 (J)	0.025 (J)	0.0035 (J)	0.0015 (J)
8/26/2021	0.007 (J)	0.0021 (J)			
9/1/2021				0.0036 (J)	0.0019 (J)
9/27/2021			0.0092 (J)		
2/8/2022		0.0023 (J)	0.016 (J)	0.0036 (J)	
2/10/2022	0.0068 (J)				0.0021 (J)
8/31/2022				0.0031 (J)	0.0025 (J)
9/1/2022	0.006 (J)	0.0019 (J)	0.014 (J)		
2/8/2023	0.0058 (J)	0.0021 (J)	0.015 (J)		
2/9/2023				0.0033 (J)	0.0026 (J)
8/16/2023	0.0058 (J)	0.0021 (J)	0.015 (J)	0.003 (J)	0.0026 (J)
2/21/2024				0.0029 (J)	
2/22/2024	0.0058 (J)	0.0026 (J)	0.015 (J)		
2/23/2024					0.0032 (J)
Mean	0.007665	0.003675	0.01498	0.003563	0.003808
Std. Dev.	0.001311	0.002823	0.004588	0.000337	0.00443
Upper Lim.	0.00841	0.0042	0.01758	0.00376	0.011

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/25/2024 4:22 PM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	YGWC-38	YGWC-41	YGWC-43	YGWC-49	PZ-35
Lower Lim.	0.00692	0.0021	0.01237	0.003366	0.0011

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/25/2024 4:22 PM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51
9/2/2016		0.0029 (J)			
11/14/2016		0.0044 (J)			
2/28/2017		0.0038 (J)			
5/9/2017		0.0057 (J)			
7/13/2017		0.007 (J)			
9/22/2017		0.0067 (J)			
9/29/2017		0.0064 (J)			
10/6/2017		0.0065 (J)			
10/12/2017	0.0271 (J)				
11/21/2017	0.0255 (J)				
1/11/2018	0.0271 (J)				
2/20/2018	<0.03				
3/30/2018		0.0061 (J)			
4/3/2018	0.027 (J)				
6/13/2018		0.0065 (J)			
6/29/2018	0.032 (J)				
8/6/2018	0.033 (J)				
9/24/2018	0.028 (J)				
9/26/2018		0.0063 (J)			
3/6/2019		0.0057 (J)			
4/4/2019		0.0058 (J)			
9/26/2019		0.0041 (J)			
3/25/2020		0.0032 (J)			
9/25/2020	0.028 (J)				
10/7/2020		0.0014 (J)			
2/9/2021	0.024 (J)				
2/10/2021		0.0011 (J)			
3/4/2021	0.028 (J)	<0.03			
8/25/2021	0.023 (J)				
9/3/2021		0.00086 (J)	0.013 (J)		
2/10/2022	0.017 (J)				0.006 (J)
2/11/2022		0.00093 (J)	0.0087 (J)	0.015 (J)	
9/1/2022	0.016 (J)	0.00089 (J)	0.0044 (J)	0.023 (J)	0.0051 (J)
2/8/2023	0.013 (J)		0.0088 (J)	0.025 (J)	
2/9/2023		0.001 (J)			0.0045 (J)
8/16/2023		0.0014 (J)	0.0095 (J)		0.0048 (J)
8/17/2023	0.016 (J)			0.029 (J)	
2/21/2024	0.015 (J)		0.009 (J)	0.027 (J)	
2/22/2024					0.005 (J)
2/23/2024		0.0017 (J)			
Mean	0.02322	0.002698	0.0089	0.0238	0.00508
Std. Dev.	0.006491	0.004622	0.002738	0.005404	0.000563
Upper Lim.	0.02728	0.015	0.01266	0.03285	0.006023
Lower Lim.	0.01915	0.00086	0.005139	0.01475	0.004137

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 4/25/2024 4:22 PM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	YAMW-3	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/7/2016		9.8E-05 (J)			
7/28/2016		<0.0002			
8/30/2016					<0.0002
9/20/2016		<0.0002			
11/8/2016		<0.0002			
11/16/2016					<0.0002
1/16/2017		<0.0002			
2/27/2017					<0.0002
3/9/2017		<0.0002			
5/2/2017		<0.0002			
5/10/2017					<0.0002
7/10/2017		<0.0002			
7/11/2017					<0.0002
10/12/2017			<0.0002	<0.0002	<0.0002
11/20/2017			8E-05 (J)		
11/21/2017				6E-05 (J)	
1/11/2018				<0.0002	
1/12/2018			<0.0002		
2/19/2018				<0.0002	
2/20/2018			<0.0002		
3/30/2018		<0.0002			
4/3/2018			<0.0002	<0.0002	
4/4/2018					<0.0002
6/27/2018				<0.0002	
6/28/2018			3.7E-05 (J)		
8/7/2018			<0.0002	<0.0002	
9/20/2018					4.8E-05 (J)
9/24/2018			<0.0002	<0.0002	
9/27/2018		<0.0002			
3/6/2019		<0.0002			
8/22/2019			<0.0002	<0.0002	<0.0002
2/9/2021		0.00015 (J)	<0.0002		
2/10/2021				<0.0002	<0.0002
3/4/2021		<0.0002	<0.0002	<0.0002	<0.0002
8/25/2021		<0.0002			<0.0002
8/26/2021			<0.0002	<0.0002	
2/8/2022				<0.0002	
2/10/2022	<0.0002	<0.0002	<0.0002		<0.0002
9/1/2022	0.00016 (J)	<0.0002	<0.0002	<0.0002	<0.0002
2/8/2023		<0.0002	<0.0002	<0.0002	<0.0002
2/9/2023	<0.0002				
8/16/2023	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/21/2024	<0.0002	<0.0002			
2/22/2024			<0.0002	<0.0002	<0.0002
Mean	0.000192	0.000192	0.0001834	0.0001918	0.0001911
Std. Dev.	1.789E-05	2.548E-05	4.76E-05	3.395E-05	3.687E-05
Upper Lim.	0.0002	0.0002	0.0002	0.0002	0.0002
Lower Lim.	0.00016	0.00015	8E-05	6E-05	4.8E-05

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 4/25/2024 4:22 PM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	YGWC-43	YGWC-49	PZ-37
8/31/2016	<0.0002		
9/1/2016		<0.0002	
11/15/2016		<0.0002	
11/16/2016	<0.0002		
2/24/2017	<0.0002		
2/27/2017		<0.0002	
5/9/2017		<0.0002	
5/10/2017	<0.0002		
7/11/2017	<0.0002		
7/13/2017		<0.0002	
10/11/2017		<0.0002	
10/12/2017	<0.0002		<0.0002
11/21/2017			6E-05 (J)
1/11/2018			<0.0002
2/20/2018			<0.0002
4/3/2018			<0.0002
4/4/2018	<0.0002	<0.0002	
6/29/2018			<0.0002
8/6/2018			<0.0002
9/20/2018	5.2E-05 (J)	6.1E-05 (J)	
9/24/2018			<0.0002
8/21/2019	<0.0002		
9/25/2020			<0.0002
2/9/2021	<0.0002	0.00014 (J)	<0.0002
3/4/2021	<0.0002	<0.0002	<0.0002
8/25/2021			<0.0002
9/1/2021		<0.0002	
9/27/2021	9E-05 (JB)		
2/8/2022	<0.0002	<0.0002	
2/10/2022			<0.0002
8/31/2022		<0.0002	
9/1/2022	<0.0002		0.00019 (J)
2/8/2023	<0.0002		<0.0002
2/9/2023		<0.0002	
8/16/2023	<0.0002	<0.0002	
8/17/2023			<0.0002
2/21/2024		<0.0002	<0.0002
2/22/2024	<0.0002		
Mean	0.0001848	0.0001876	0.0001912
Std. Dev.	4.337E-05	3.692E-05	3.389E-05
Upper Lim.	0.0002	0.0002	0.0002
Lower Lim.	9E-05	0.00014	0.00019

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 4/25/2024 4:22 PM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	YAMW-1	YAMW-3	YAMW-4	YGWC-42	YGWC-43
8/30/2016				0.0019 (J)	
8/31/2016					0.0022 (J)
11/16/2016				0.0027 (J)	<0.01
2/24/2017					<0.01
2/27/2017				0.0031 (J)	
5/10/2017				0.0017 (J)	<0.01
7/11/2017				0.0014 (J)	<0.01
10/12/2017				<0.01	<0.01
4/4/2018				<0.01	<0.01
9/20/2018				<0.01	<0.01
8/21/2019					0.0012 (J)
8/22/2019				<0.01	
10/9/2019				<0.01	0.0012 (J)
3/25/2020	<0.01			<0.01	0.0015 (J)
9/23/2020			0.0068 (J)		
9/24/2020	0.0022 (J)			0.00091 (J)	
9/25/2020					0.0011 (J)
2/9/2021	0.0038 (J)		0.0068 (J)		0.0012 (J)
2/10/2021				0.00094 (J)	
3/3/2021	0.0037 (J)		0.0049 (J)		
3/4/2021				0.00085 (J)	0.0011 (J)
8/25/2021			0.0081 (J)	0.00078 (J)	
9/1/2021	0.0014 (J)				
9/27/2021					0.0062 (J)
2/8/2022					0.002 (J)
2/10/2022	0.00089 (J)	0.0036 (J)	0.0076 (J)	0.0008 (J)	
8/31/2022	<0.01				
9/1/2022		0.0057 (J)	0.0074 (J)	0.00079 (J)	0.0014 (J)
2/8/2023			0.0076 (J)	0.00081 (J)	0.0016 (J)
2/9/2023	<0.01	0.0067 (J)			
8/16/2023	<0.01	0.0084 (J)	0.0074 (J)	0.00096 (J)	0.0019 (J)
2/21/2024		0.0041 (J)			
2/22/2024			0.0071 (J)	0.00075 (J)	0.0016 (J)
2/23/2024	<0.01				
Mean	0.006199	0.0057	0.007078	0.003919	0.00471
Std. Dev.	0.004102	0.001953	0.0009148	0.004133	0.004125
Upper Lim.	0.01	0.008973	0.007886	0.01	0.01
Lower Lim.	0.0014	0.002427	0.006283	0.00081	0.0012

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 4/25/2024 4:22 PM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	YGWC-49	PZ-35	PZ-37	YGWC-36A	PZ-37D
9/1/2016	<0.01				
9/2/2016				0.0027 (J)	
11/14/2016				0.0071 (J)	
11/15/2016	<0.01				
2/27/2017	0.0007 (J)				
2/28/2017				0.0038 (J)	
5/9/2017	<0.01			0.0025 (J)	
7/13/2017	<0.01			0.0014 (J)	
9/22/2017				<0.01	
9/29/2017				<0.01	
10/6/2017				<0.01	
10/11/2017	<0.01				
10/12/2017			0.0022 (J)		
11/21/2017			0.0016 (J)		
1/11/2018			0.0015 (J)		
2/20/2018			<0.01		
3/30/2018				<0.01	
4/3/2018			<0.01		
4/4/2018	<0.01				
6/29/2018			0.0021 (J)		
8/6/2018			<0.01		
9/20/2018	<0.01				
9/24/2018			<0.01		
3/6/2019				<0.01	
3/25/2020	<0.01	0.0019 (J)		<0.01	
9/24/2020	<0.01	<0.01			
9/25/2020			0.0016 (J)		
10/7/2020				0.0015 (J)	
2/9/2021	<0.01		0.0016 (J)		
2/10/2021		<0.01		<0.01	
3/4/2021	<0.01	<0.01	0.0024 (J)	<0.01	
8/25/2021			0.0011 (J)		
9/1/2021	<0.01	<0.01			
9/3/2021				<0.01	0.0018 (J)
2/8/2022	<0.01				
2/10/2022		<0.01	<0.01		
2/11/2022				<0.01	0.0037 (J)
8/31/2022	<0.01	<0.01			
9/1/2022			<0.01	<0.01	0.0059 (J)
2/8/2023			<0.01		0.0024 (J)
2/9/2023	<0.01	<0.01		<0.01	
8/16/2023	<0.01	<0.01		<0.01	0.004 (J)
8/17/2023			<0.01		
2/21/2024	<0.01		<0.01		0.004 (J)
2/23/2024		<0.01		<0.01	
Mean	0.009483	0.00919	0.006124	0.00795	0.003633
Std. Dev.	0.002192	0.002561	0.004248	0.003392	0.001435
Upper Lim.	0.01	0.01	0.01	0.01	0.005604
Lower Lim.	0.0007	0.01	0.0016	0.0038	0.001662

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 4/25/2024 4:22 PM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	PZ-52D
2/11/2022	0.011
9/1/2022	0.0084 (J)
2/8/2023	0.005 (J)
8/17/2023	0.003 (J)
2/21/2024	0.0025 (J)
Mean	0.00598
Std. Dev.	0.00364
Upper Lim.	0.01208
Lower Lim.	0

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 4/25/2024 4:22 PM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	YAMW-1	YAMW-3	YAMW-4	YAMW-5	YGWC-23S
6/7/2016					0.037
7/28/2016					0.0385
9/20/2016					0.0464
11/8/2016					0.0521
1/16/2017					0.0469
3/9/2017					0.0437
5/2/2017					0.0395
7/10/2017					0.0386
3/30/2018					0.028
6/12/2018					0.026
9/27/2018					0.023
10/16/2018	0.0019 (J)				
3/6/2019					0.019
4/4/2019					0.017
9/26/2019	<0.005				
9/27/2019					0.018
1/15/2020				0.045	
1/16/2020		<0.005	0.0018 (J)		
3/25/2020	<0.005				
3/26/2020					0.024
9/23/2020			0.016		
9/24/2020	<0.005			0.026	0.031
2/9/2021	<0.005		<0.005	0.06	0.032
3/3/2021	<0.005		<0.005		
3/4/2021				0.061	0.037
8/25/2021			0.019		0.032
8/26/2021				0.055	
9/1/2021	0.0027 (J)				
2/10/2022	0.0034 (J)	<0.005	0.019	0.057	0.039
8/31/2022	0.0041 (J)				
9/1/2022		<0.005	0.023	0.048	0.036
2/8/2023			0.017	0.052	0.035
2/9/2023	0.0051	<0.005			
8/16/2023	0.0046 (J)	0.0075	0.019	0.054	0.03
2/21/2024		0.023			0.031
2/22/2024			0.015	0.053	
2/23/2024	0.0056				
Mean	0.004367	0.008417	0.01398	0.0511	0.03336
Std. Dev.	0.001128	0.007214	0.007309	0.01009	0.009289
Upper Lim.	0.004708	0.023	0.0185	0.05909	0.0381
Lower Lim.	0.002901	0.005	0.004137	0.04376	0.02862

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 4/25/2024 4:22 PM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	YGWC-41	YGWC-42	YGWC-49	PZ-35	PZ-37
8/30/2016		0.0711			
9/1/2016			0.0086 (J)		
11/15/2016			0.0056 (J)		
11/16/2016		0.0313			
2/27/2017		0.0316	0.0098 (J)		
5/9/2017			0.0076 (J)		
5/10/2017		0.053			
7/11/2017		0.0697			
7/13/2017			0.0093 (J)		
10/11/2017			0.0089 (J)		
10/12/2017	0.0191	0.0594			0.234
11/21/2017	0.0687				0.225
1/11/2018	0.069				0.168
2/19/2018	0.071				
2/20/2018					0.315
4/3/2018	0.067				0.28
4/4/2018		0.055	<0.01		
6/27/2018	0.066				
6/29/2018					0.26
8/6/2018					0.21
8/7/2018	0.061				
9/20/2018		0.041	0.0081 (J)		
9/24/2018	0.061				0.33
10/16/2018				<0.005	
8/22/2019	0.058	0.047			
9/26/2019			0.0077 (J)	<0.005	
10/9/2019	0.052	0.042			
3/25/2020	0.057	0.046	0.0085 (J)	<0.005	
9/24/2020		0.046	0.0091 (J)	<0.005	
9/25/2020	0.046				0.32
2/9/2021			0.0079 (J)		0.28
2/10/2021	0.033	0.043		<0.005	
3/4/2021	0.037	0.048	0.0058	<0.005	0.27
8/25/2021		0.043			0.2
8/26/2021	0.027				
9/1/2021			0.0066	0.0016 (J)	
2/8/2022	0.031		0.0075		
2/10/2022		0.044		0.003 (J)	0.2
8/31/2022			0.0062	0.0033 (J)	
9/1/2022	0.027	0.035			0.17
2/8/2023	0.027	0.041			0.16
2/9/2023			0.0054	0.0041 (J)	
8/16/2023	0.023	0.019	0.0062	0.0039 (J)	
8/17/2023					0.15
2/21/2024			0.0055		0.13
2/22/2024	0.021	0.037			
2/23/2024				0.0035 (J)	
Mean	0.04609	0.04516	0.007332	0.004117	0.2295
Std. Dev.	0.01877	0.01243	0.001503	0.001102	0.06315
Upper Lim.	0.05675	0.05221	0.008211	0.005	0.2691
Lower Lim.	0.03543	0.0381	0.006452	0.003	0.19

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 4/25/2024 4:22 PM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	YGWC-36A	PZ-52D	PZ-51
9/2/2016	0.0012 (J)		
11/14/2016	<0.005		
2/28/2017	0.0017 (J)		
5/9/2017	0.0018 (J)		
7/13/2017	0.0031 (J)		
9/22/2017	0.0024 (J)		
9/29/2017	0.002 (J)		
10/6/2017	<0.005		
3/30/2018	<0.005		
6/13/2018	0.0024 (J)		
9/26/2018	0.0037 (J)		
3/6/2019	0.0033 (J)		
4/4/2019	0.0029 (J)		
9/26/2019	0.0019 (J)		
3/25/2020	0.0024 (J)		
10/7/2020	<0.005		
2/10/2021	<0.005		
3/4/2021	<0.005		
9/3/2021	<0.005		
2/10/2022			0.029
2/11/2022	<0.005	0.0025 (J)	
9/1/2022	<0.005	0.0041 (J)	0.026
2/8/2023		0.0057	
2/9/2023	0.0027 (J)		0.028
8/16/2023	0.0032 (J)		0.024
8/17/2023		0.011	
2/21/2024		0.0099	
2/22/2024			0.024
2/23/2024	0.005 (J)		
Mean	0.003529	0.00664	0.0262
Std. Dev.	0.001378	0.003678	0.00228
Upper Lim.	0.005	0.0128	0.03002
Lower Lim.	0.0024	0.0004768	0.02238

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 4/25/2024 4:22 PM View: Appendix IV

Plant Yates Data: Plant Yates AMA-R6

	YGWC-49
9/1/2016	<0.001
11/15/2016	<0.001
2/27/2017	9E-05 (J)
5/9/2017	<0.001
7/13/2017	<0.001
10/11/2017	<0.001
4/4/2018	<0.001
9/20/2018	<0.001
9/26/2019	<0.001
3/25/2020	<0.001
9/24/2020	<0.001
2/9/2021	<0.001
2/8/2022	<0.001
8/31/2022	<0.001
2/9/2023	<0.001
8/16/2023	<0.001
2/21/2024	<0.001
Mean	0.0009465
Std. Dev.	0.0002207
Upper Lim.	0.001
Lower Lim.	9E-05

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/25/2024 4:22 PM View: Appendix IV Nonparametric
Plant Yates Data: Plant Yates AMA-R6

	YAMW-3
2/10/2022	0.16
9/1/2022	0.058
2/9/2023	0.066
8/16/2023	0.14
2/21/2024	0.051
Mean	0.095
Std. Dev.	0.05098
Upper Lim.	0.16
Lower Lim.	0.051

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/25/2024 4:22 PM View: Appendix IV Nonparametric
Plant Yates Data: Plant Yates AMA-R6

	YAMW-3	PZ-52D	PZ-51
11/4/2021		0.721 (U)	
2/10/2022	0.988 (U)		0.964 (U)
2/11/2022		1.52	
9/1/2022	0.975 (U)	0.225 (U)	0.389 (U)
2/8/2023		0.218 (U)	
2/9/2023	2.19		0.467 (U)
8/16/2023	2.77		0.924 (U)
8/17/2023		1.88	
2/21/2024	0.973 (U)	0.689 (U)	
2/22/2024			0.894 (U)
Mean	1.579	0.8755	0.7276
Std. Dev.	0.8475	0.6839	0.276
Upper Lim.	2.77	1.88	0.964
Lower Lim.	0.973	0.218	0.389

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/25/2024 4:22 PM View: Appendix IV - Most Recent 8
Plant Yates Data: Plant Yates AMA-R6

	YGWC-42
2/10/2021	0.058
3/4/2021	0.059
8/25/2021	0.053
2/10/2022	0.052
9/1/2022	0.054
2/8/2023	0.046
8/16/2023	0.054
2/22/2024	0.049
Mean	0.05313
Std. Dev.	0.004291
Upper Lim.	0.05767
Lower Lim.	0.04858

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 4/25/2024 4:22 PM View: Appendix IV - Most Recent 8

Plant Yates Data: Plant Yates AMA-R6

	YGWC-38
2/9/2021	0.073
3/4/2021	0.076
8/26/2021	0.06
2/10/2022	0.064
9/1/2022	0.055
2/8/2023	0.056
8/16/2023	0.053
2/22/2024	0.048
Mean	0.06063
Std. Dev.	0.009797
Upper Lim.	0.07101
Lower Lim.	0.05024

FIGURE I.

Appendix IV Trend Tests Summary - Significant Results

Plant Yates Data: Plant Yates AMA-R6 Printed 4/25/2024, 4:26 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Cobalt (mg/L)	**YGWA-39 (bg)**	**-0.000705**	**-77**	**-66**	**Yes**	**21**	**42.86**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**YGWA-47 (bg)**	**-0.0008789**	**-124**	**-62**	**Yes**	**20**	**5**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	**YGWA-30I (bg)**	**-0.004141**	**-285**	**-85**	**Yes**	**25**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**YGWA-18I (bg)**	**-0.0002243**	**-139**	**-85**	**Yes**	**25**	**8**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**YGWA-18S (bg)**	**-0.0002375**	**-101**	**-85**	**Yes**	**25**	**4**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**YGWA-39 (bg)**	**0.0009479**	**119**	**66**	**Yes**	**21**	**4.762**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**YGWC-42**	**0.00428**	**121**	**62**	**Yes**	**20**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**YGWA-47 (bg)**	**-0.0002448**	**-103**	**-62**	**Yes**	**20**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**YGWA-3D (bg)**	**0.0006885**	**155**	**85**	**Yes**	**25**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**YGWA-3I (bg)**	**0.001462**	**178**	**85**	**Yes**	**25**	**0**	**n/a**	**0.05**	**NP**
Selenium (mg/L)	**YGWA-17S (bg)**	**0**	**118**	**81**	**Yes**	**24**	**75**	**n/a**	**0.05**	**NP**
Selenium (mg/L)	**YGWC-38**	**-0.04086**	**-175**	**-62**	**Yes**	**20**	**0**	**n/a**	**0.05**	**NP**
Selenium (mg/L)	**PZ-37**	**-0.02079**	**-60**	**-49**	**Yes**	**17**	**0**	**n/a**	**0.05**	**NP**

Appendix IV Trend Tests Summary - All Results

Plant Yates Data: Plant Yates AMA-R6 Printed 4/25/2024, 4:26 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Cobalt (mg/L)	YAMW-3	-0.01387	-4	-10	No	5	0	n/a	0.05	NP
Cobalt (mg/L)	YGWA-17S (bg)	0	0	81	No	24	100	n/a	0.05	NP
Cobalt (mg/L)	YGWA-18I (bg)	0	0	85	No	25	100	n/a	0.05	NP
Cobalt (mg/L)	YGWA-18S (bg)	0	67	85	No	25	88	n/a	0.05	NP
Cobalt (mg/L)	YGWA-20S (bg)	0	0	85	No	25	100	n/a	0.05	NP
Cobalt (mg/L)	YGWA-21I (bg)	0.0005671	58	85	No	25	4	n/a	0.05	NP
Cobalt (mg/L)	**YGWA-39 (bg)**	**-0.000705**	**-77**	**-66**	**Yes**	**21**	**42.86**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	YGWA-40 (bg)	0	0	66	No	21	100	n/a	0.05	NP
Cobalt (mg/L)	YGWA-4I (bg)	0	70	85	No	25	60	n/a	0.05	NP
Cobalt (mg/L)	YGWA-5D (bg)	0	-11	-85	No	25	92	n/a	0.05	NP
Cobalt (mg/L)	YGWA-5I (bg)	0	0	85	No	25	100	n/a	0.05	NP
Cobalt (mg/L)	**YGWA-47 (bg)**	**-0.0008789**	**-124**	**-62**	**Yes**	**20**	**5**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	GWA-2 (bg)	-0.00001253	-68	-140	No	35	31.43	n/a	0.05	NP
Cobalt (mg/L)	YGWA-14S (bg)	0	0	85	No	25	100	n/a	0.05	NP
Cobalt (mg/L)	YGWA-1D (bg)	0	-85	-85	No	25	80	n/a	0.05	NP
Cobalt (mg/L)	YGWA-1I (bg)	0.00004051	28	85	No	25	8	n/a	0.05	NP
Cobalt (mg/L)	YGWA-2I (bg)	0	0	85	No	25	100	n/a	0.05	NP
Cobalt (mg/L)	**YGWA-30I (bg)**	**-0.004141**	**-285**	**-85**	**Yes**	**25**	**0**	**n/a**	**0.05**	**NP**
Cobalt (mg/L)	YGWA-3D (bg)	0	0	85	No	25	100	n/a	0.05	NP
Cobalt (mg/L)	YGWA-3I (bg)	0	0	85	No	25	100	n/a	0.05	NP
Lithium (mg/L)	YGWA-17S (bg)	0	7	81	No	24	91.67	n/a	0.05	NP
Lithium (mg/L)	**YGWA-18I (bg)**	**-0.0002243**	**-139**	**-85**	**Yes**	**25**	**8**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**YGWA-18S (bg)**	**-0.0002375**	**-101**	**-85**	**Yes**	**25**	**4**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	YGWA-20S (bg)	0	-16	-85	No	25	96	n/a	0.05	NP
Lithium (mg/L)	YGWA-21I (bg)	0.0001031	68	85	No	25	4	n/a	0.05	NP
Lithium (mg/L)	**YGWA-39 (bg)**	**0.0009479**	**119**	**66**	**Yes**	**21**	**4.762**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	YGWA-40 (bg)	0	-29	-66	No	21	90.48	n/a	0.05	NP
Lithium (mg/L)	YGWA-4I (bg)	-0.00009359	-49	-85	No	25	0	n/a	0.05	NP
Lithium (mg/L)	YGWA-5D (bg)	0.000166	78	85	No	25	0	n/a	0.05	NP
Lithium (mg/L)	YGWA-5I (bg)	0.00004063	68	85	No	25	12	n/a	0.05	NP
Lithium (mg/L)	**YGWC-42**	**0.00428**	**121**	**62**	**Yes**	**20**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**YGWA-47 (bg)**	**-0.0002448**	**-103**	**-62**	**Yes**	**20**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	GWA-2 (bg)	-0.0001531	-31	-62	No	20	35	n/a	0.05	NP
Lithium (mg/L)	YGWA-14S (bg)	0	0	85	No	25	100	n/a	0.05	NP
Lithium (mg/L)	YGWA-1D (bg)	-0.0005977	-85	-85	No	25	0	n/a	0.05	NP
Lithium (mg/L)	YGWA-1I (bg)	0	12	85	No	25	20	n/a	0.05	NP
Lithium (mg/L)	YGWA-2I (bg)	0.0000725	14	85	No	25	12	n/a	0.05	NP
Lithium (mg/L)	YGWA-30I (bg)	0	-76	-85	No	25	44	n/a	0.05	NP
Lithium (mg/L)	**YGWA-3D (bg)**	**0.0006885**	**155**	**85**	**Yes**	**25**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**YGWA-3I (bg)**	**0.001462**	**178**	**85**	**Yes**	**25**	**0**	**n/a**	**0.05**	**NP**
Selenium (mg/L)	**YGWA-17S (bg)**	**0**	**118**	**81**	**Yes**	**24**	**75**	**n/a**	**0.05**	**NP**
Selenium (mg/L)	YGWA-18I (bg)	0	0	85	No	25	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-18S (bg)	0	0	85	No	25	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-20S (bg)	0	0	85	No	25	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-21I (bg)	0	45	85	No	25	92	n/a	0.05	NP
Selenium (mg/L)	YGWA-39 (bg)	0	6	66	No	21	95.24	n/a	0.05	NP
Selenium (mg/L)	YGWA-40 (bg)	0	-3	-66	No	21	47.62	n/a	0.05	NP
Selenium (mg/L)	YGWA-4I (bg)	0	11	85	No	25	92	n/a	0.05	NP
Selenium (mg/L)	YGWA-5D (bg)	0	0	85	No	25	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-5I (bg)	0	22	85	No	25	96	n/a	0.05	NP
Selenium (mg/L)	**YGWC-38**	**-0.04086**	**-175**	**-62**	**Yes**	**20**	**0**	**n/a**	**0.05**	**NP**
Selenium (mg/L)	YGWA-47 (bg)	0	25	45	No	16	87.5	n/a	0.05	NP
Selenium (mg/L)	GWA-2 (bg)	0	0	1.96	No	41	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-14S (bg)	0	17	76	No	23	65.22	n/a	0.05	NP
Selenium (mg/L)	YGWA-1D (bg)	0	0	76	No	23	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-1I (bg)	0	0	76	No	23	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-2I (bg)	0	0	76	No	23	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-30I (bg)	0	0	76	No	23	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-3D (bg)	0	0	76	No	23	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-3I (bg)	0	0	76	No	23	100	n/a	0.05	NP
Selenium (mg/L)	**PZ-37**	**-0.02079**	**-60**	**-49**	**Yes**	**17**	**0**	**n/a**	**0.05**	**NP**

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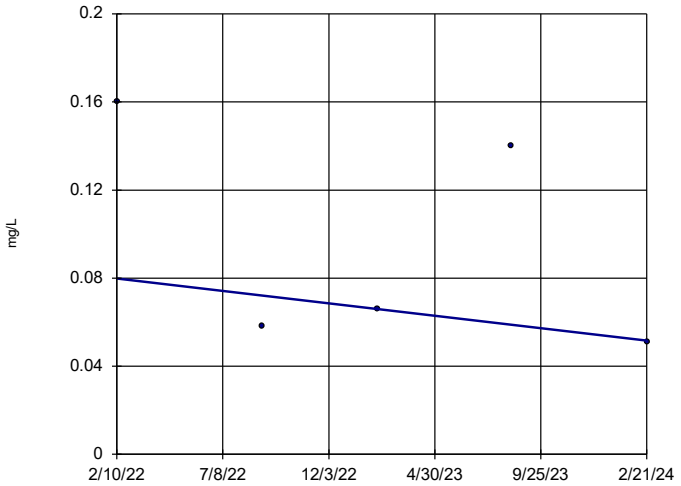
Sen's Slope Estimator

YAMW-3



n = 5

Slope = -0.01387 units per year.

Mann-Kendall statistic = -4 critical = -10

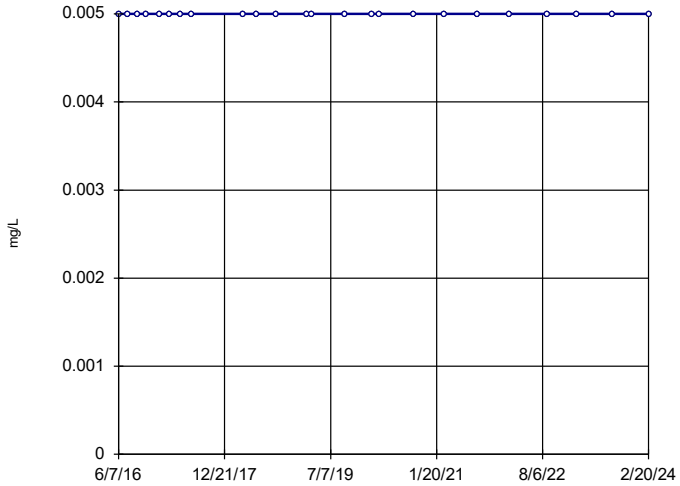
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 4/25/2024 4:23 PM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-17S (bg)



n = 24

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 81

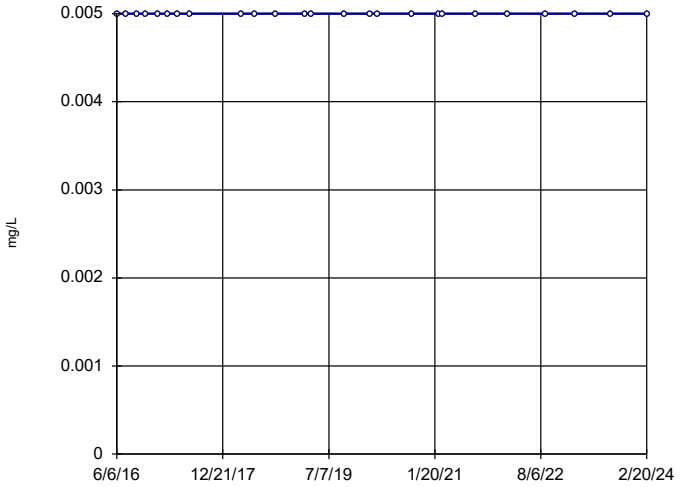
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 4/25/2024 4:23 PM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18I (bg)



n = 25

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 85

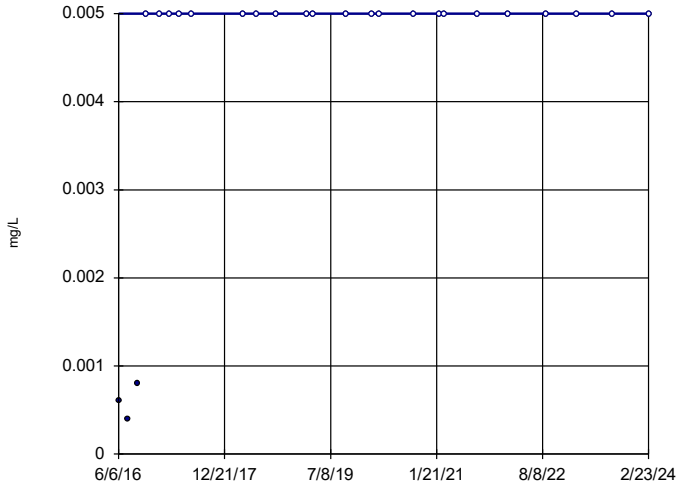
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 4/25/2024 4:23 PM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18S (bg)



n = 25

Slope = 0 units per year.

Mann-Kendall statistic = 67 critical = 85

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 4/25/2024 4:23 PM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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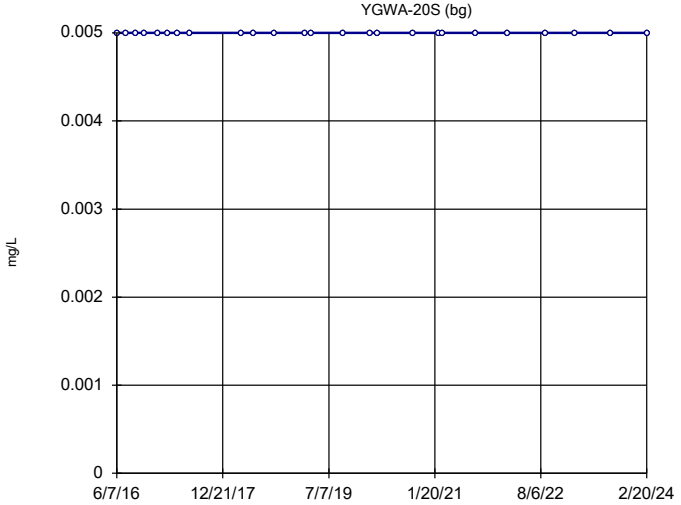
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-20S (bg)



n = 25

Slope = 0
units per year.

Mann-Kendall
statistic = 0
critical = 85

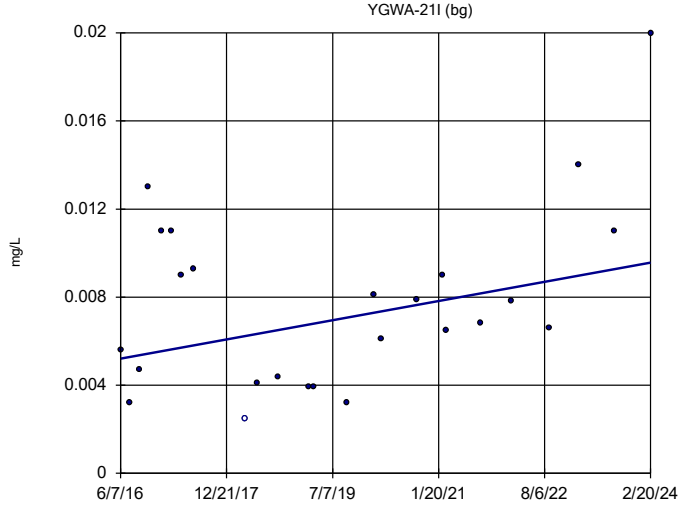
Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Cobalt Analysis Run 4/25/2024 4:23 PM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-21I (bg)



n = 25

Slope = 0.0005671
units per year.

Mann-Kendall
statistic = 58
critical = 85

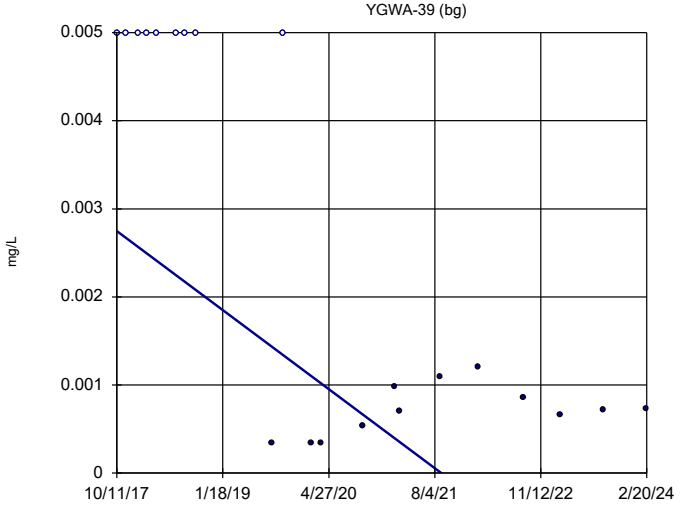
Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Cobalt Analysis Run 4/25/2024 4:23 PM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-39 (bg)



n = 21

Slope = -0.000705
units per year.

Mann-Kendall
statistic = -77
critical = -66

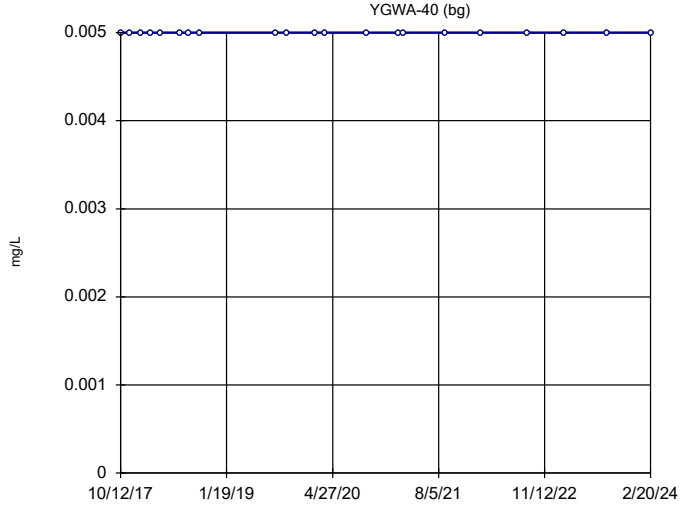
Decreasing trend
significant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Cobalt Analysis Run 4/25/2024 4:23 PM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-40 (bg)



n = 21

Slope = 0
units per year.

Mann-Kendall
statistic = 0
critical = 66

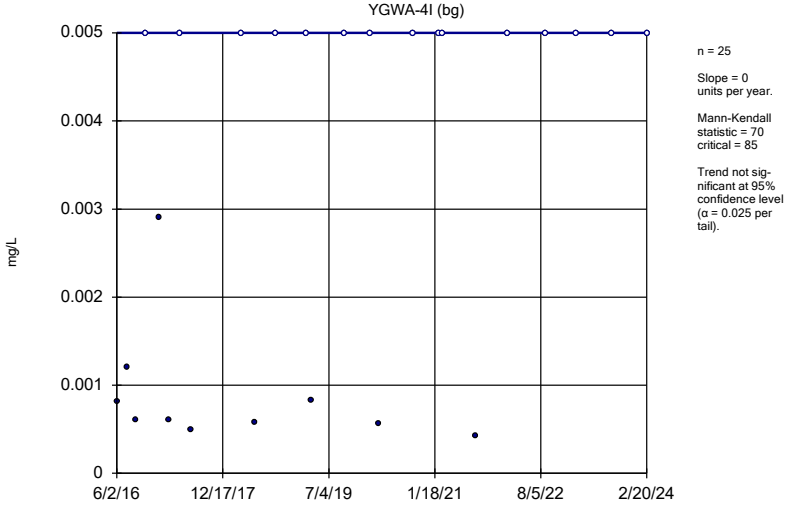
Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Cobalt Analysis Run 4/25/2024 4:23 PM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-4I (bg)



n = 25

Slope = 0
units per year.

Mann-Kendall
statistic = 70
critical = 85

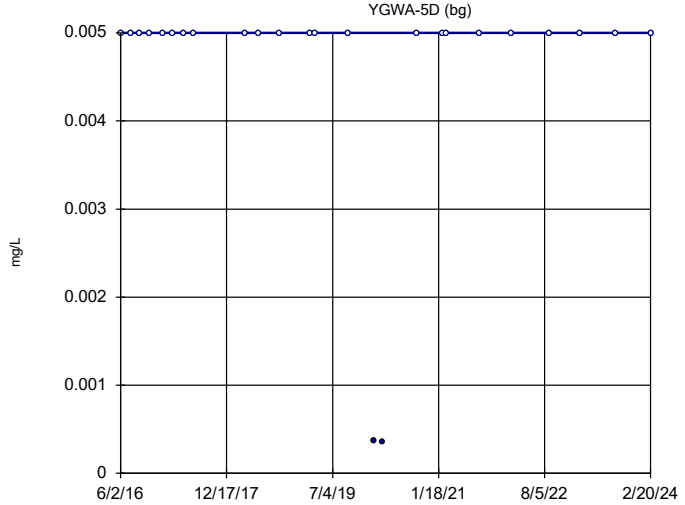
Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Cobalt Analysis Run 4/25/2024 4:23 PM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5D (bg)



n = 25

Slope = 0
units per year.

Mann-Kendall
statistic = -11
critical = -85

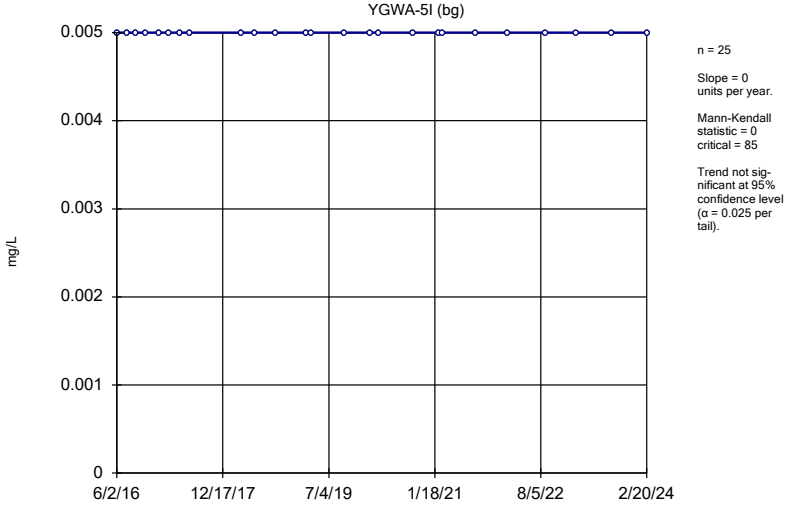
Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Cobalt Analysis Run 4/25/2024 4:23 PM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5I (bg)



n = 25

Slope = 0
units per year.

Mann-Kendall
statistic = 0
critical = 85

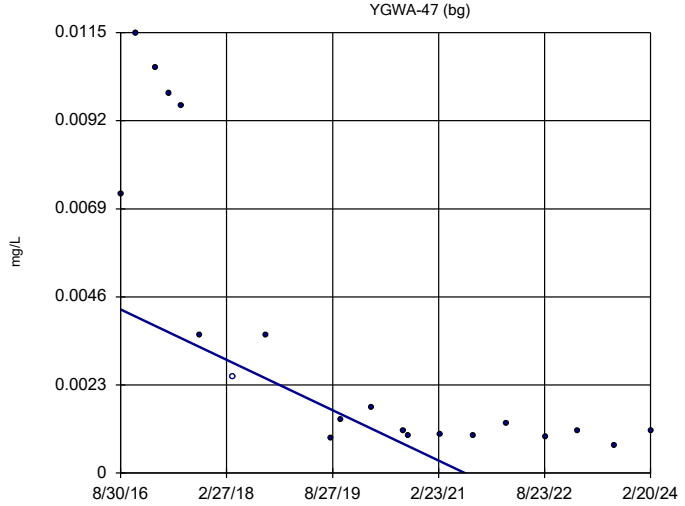
Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Cobalt Analysis Run 4/25/2024 4:23 PM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-47 (bg)



n = 20

Slope = -0.0008789
units per year.

Mann-Kendall
statistic = -124
critical = -62

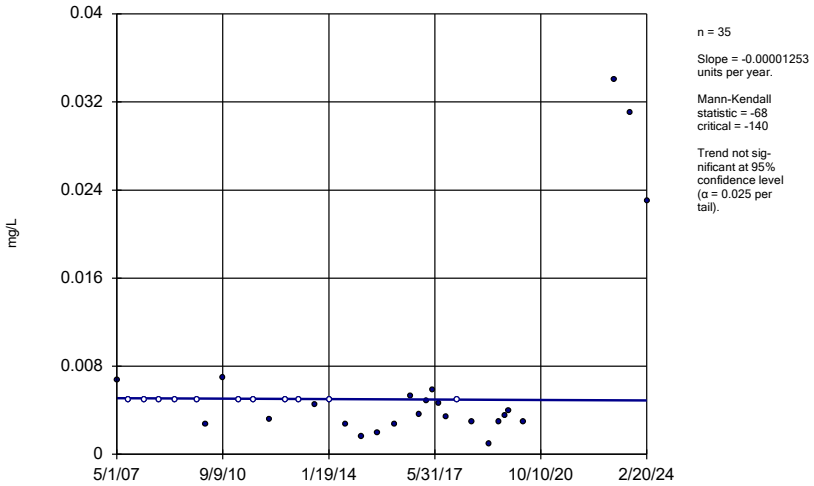
Decreasing trend
significant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Cobalt Analysis Run 4/25/2024 4:23 PM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-2 (bg)



n = 35

Slope = -0.00001253 units per year.

Mann-Kendall statistic = -68
critical = -140

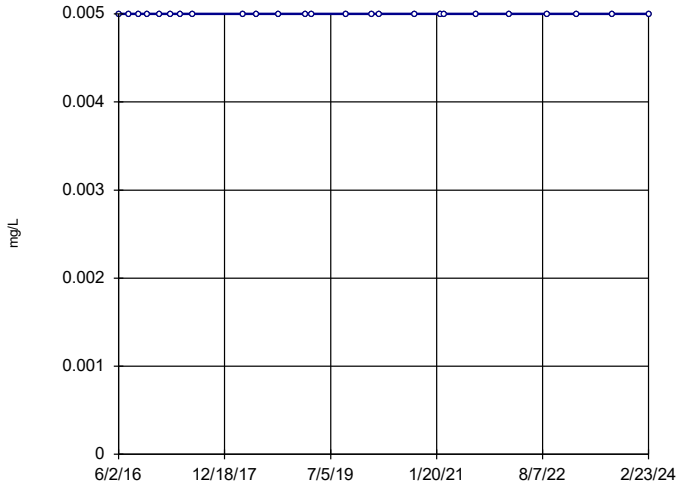
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 4/25/2024 4:23 PM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-14S (bg)



n = 25

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 85

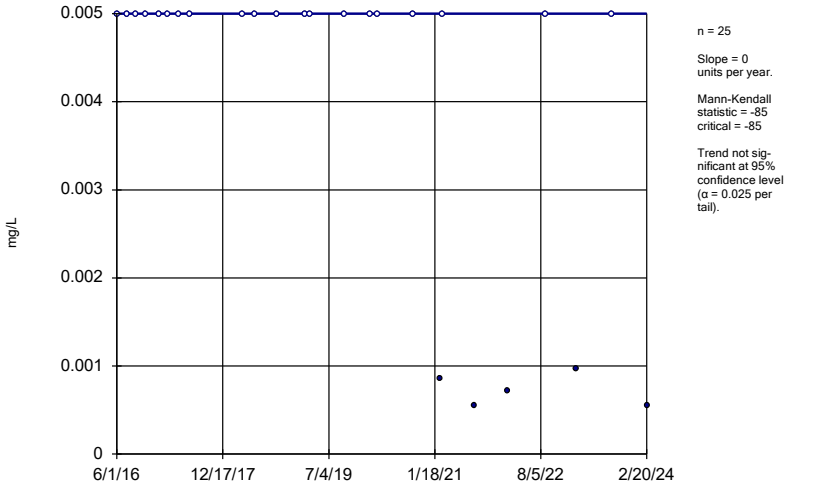
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 4/25/2024 4:23 PM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-1D (bg)



n = 25

Slope = 0 units per year.

Mann-Kendall statistic = -85
critical = -85

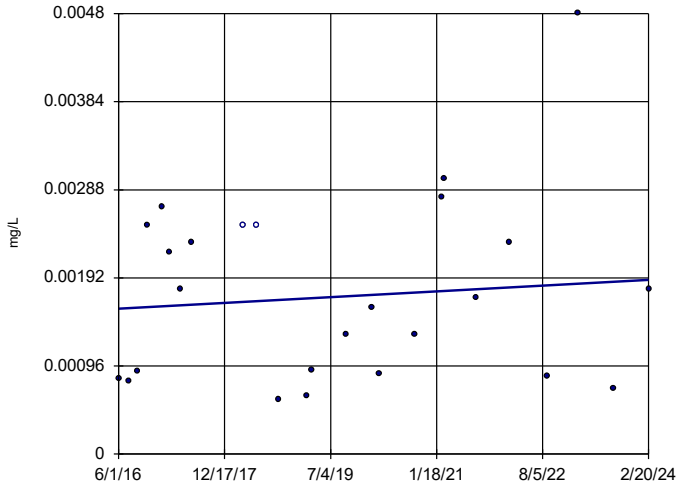
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 4/25/2024 4:23 PM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-1I (bg)



n = 25

Slope = 0.00004051 units per year.

Mann-Kendall statistic = 28
critical = 85

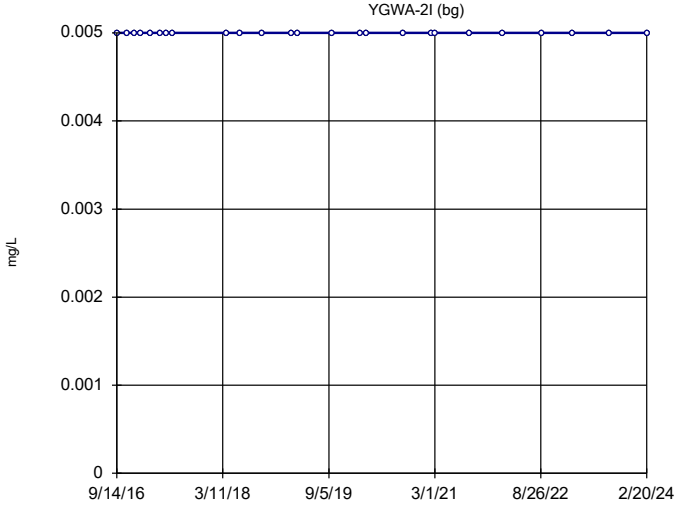
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 4/25/2024 4:23 PM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-2I (bg)



n = 25

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 85

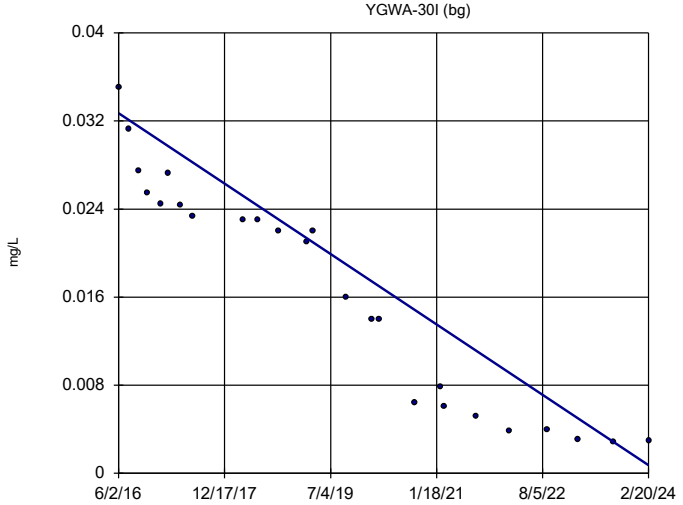
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 4/25/2024 4:23 PM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG

Sen's Slope Estimator

YGWA-30I (bg)



n = 25

Slope = -0.004141 units per year.

Mann-Kendall statistic = -285
critical = -85

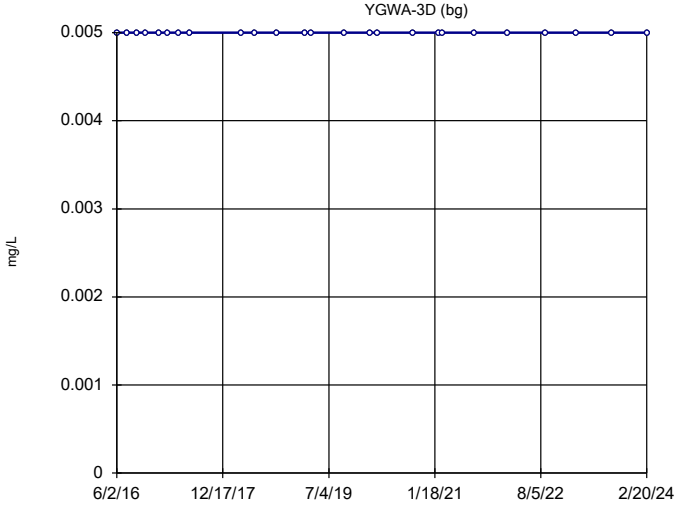
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 4/25/2024 4:23 PM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3D (bg)



n = 25

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 85

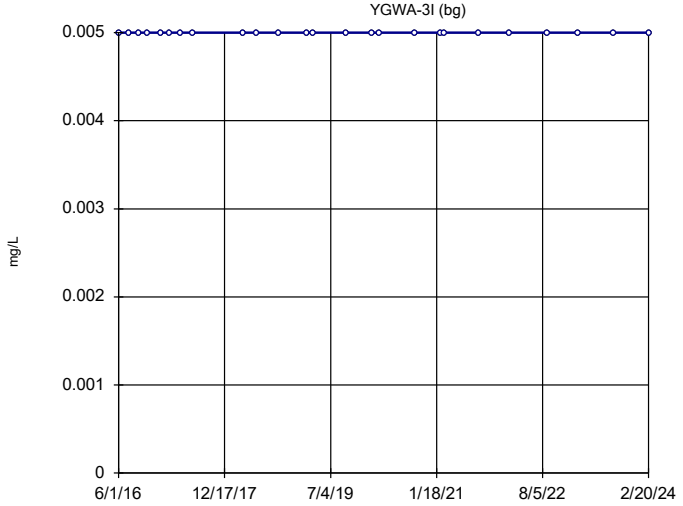
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 4/25/2024 4:23 PM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3I (bg)



n = 25

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 85

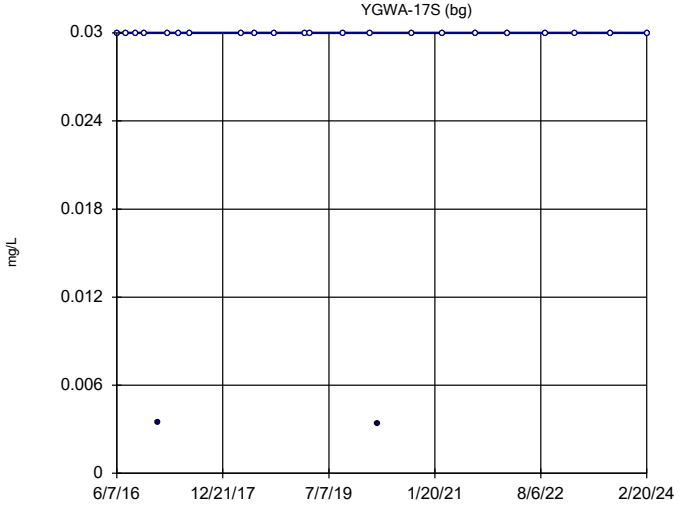
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 4/25/2024 4:23 PM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-17S (bg)



n = 24

Slope = 0
units per year.

Mann-Kendall
statistic = 7
critical = 81

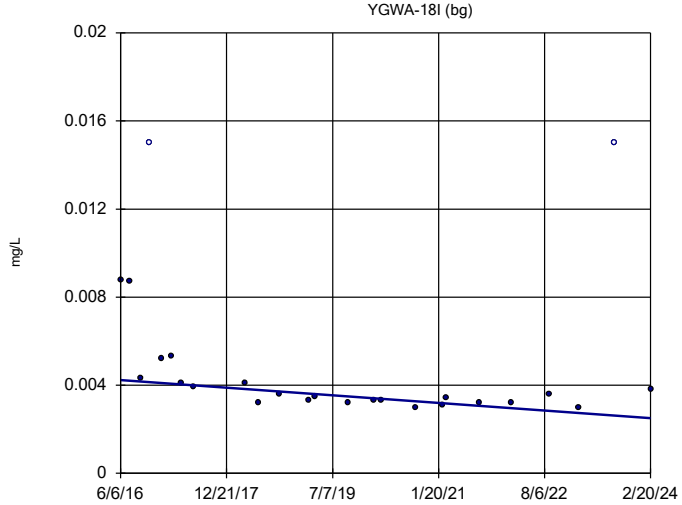
Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Lithium Analysis Run 4/25/2024 4:23 PM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18I (bg)



n = 25

Slope = -0.0002243
units per year.

Mann-Kendall
statistic = -139
critical = -85

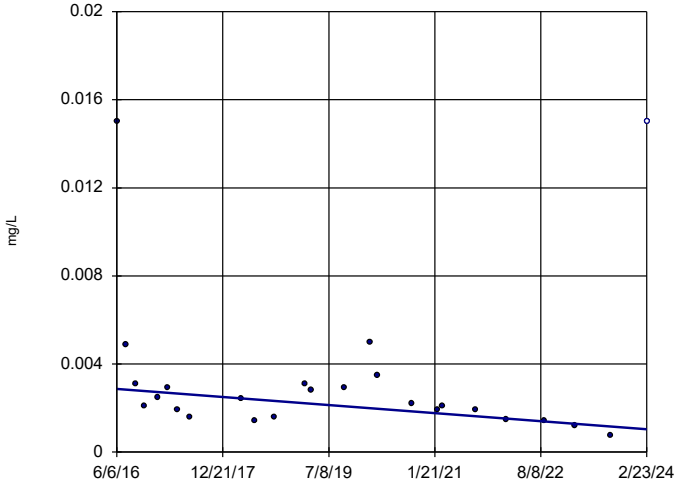
Decreasing trend
significant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Lithium Analysis Run 4/25/2024 4:23 PM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18S (bg)



n = 25

Slope = -0.0002375
units per year.

Mann-Kendall
statistic = -101
critical = -85

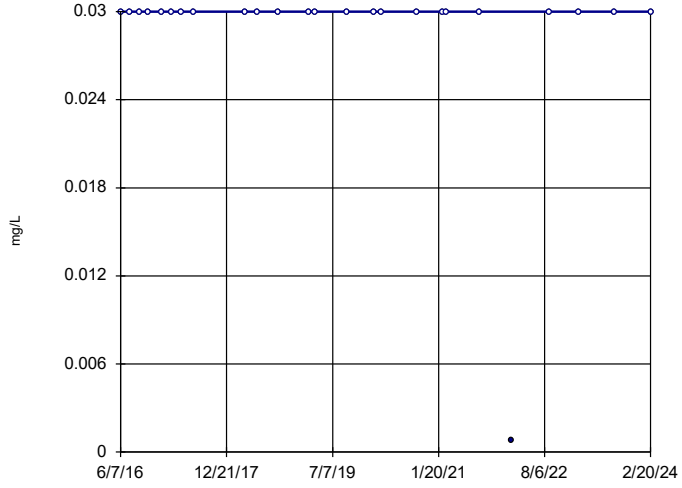
Decreasing trend
significant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Lithium Analysis Run 4/25/2024 4:23 PM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-20S (bg)



n = 25

Slope = 0
units per year.

Mann-Kendall
statistic = -16
critical = -85

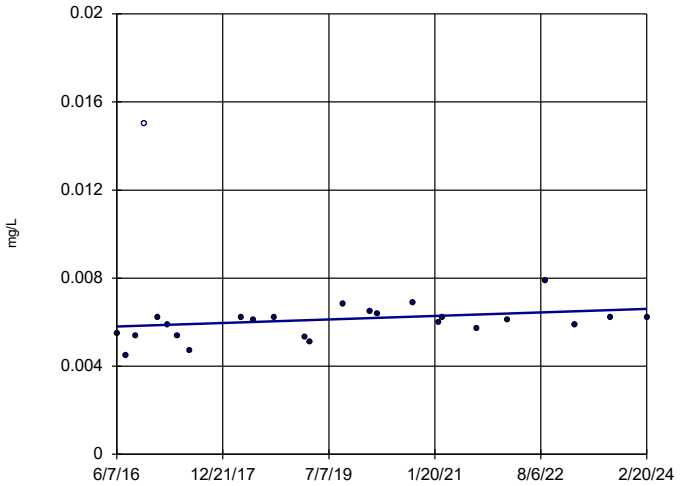
Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Lithium Analysis Run 4/25/2024 4:23 PM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-21I (bg)



n = 25

Slope = 0.0001031 units per year.

Mann-Kendall statistic = 68
critical = 85

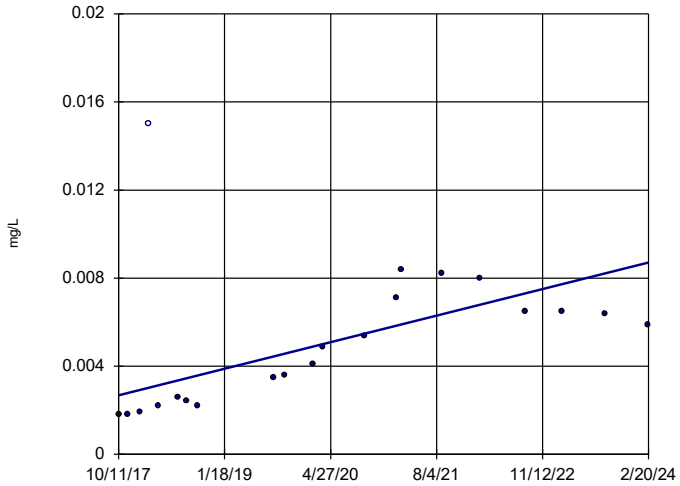
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 4/25/2024 4:23 PM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-39 (bg)



n = 21

Slope = 0.0009479 units per year.

Mann-Kendall statistic = 119
critical = 66

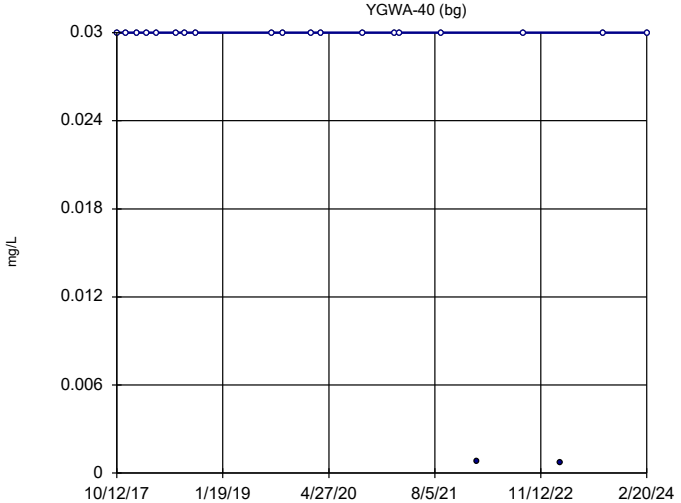
Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 4/25/2024 4:23 PM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-40 (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = -29
critical = -66

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 4/25/2024 4:23 PM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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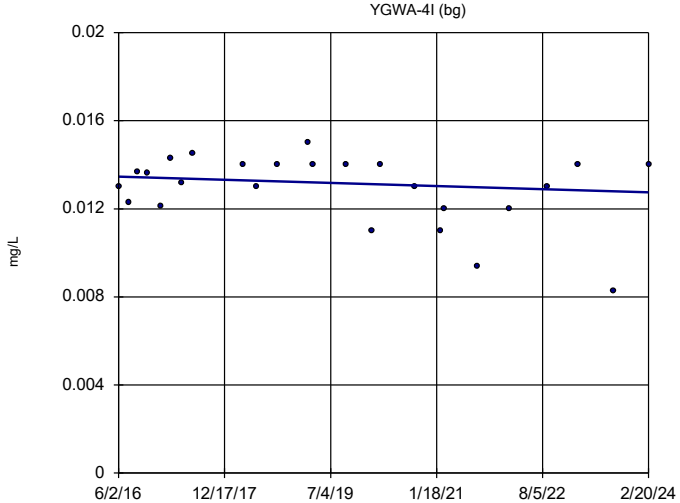
Sen's Slope Estimator

YGWA-4I (bg)



n = 25

Slope = -0.00009359 units per year.

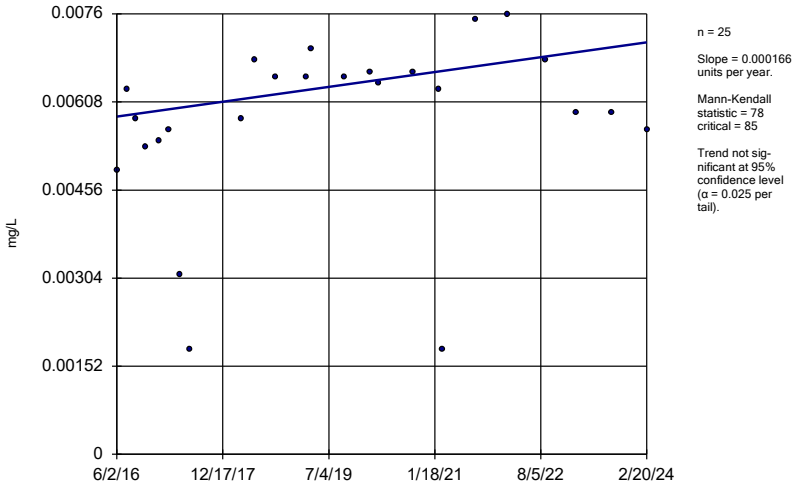
Mann-Kendall statistic = -49
critical = -85

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 4/25/2024 4:23 PM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-5D (bg)



n = 25

Slope = 0.000166 units per year.

Mann-Kendall statistic = 78
critical = 85

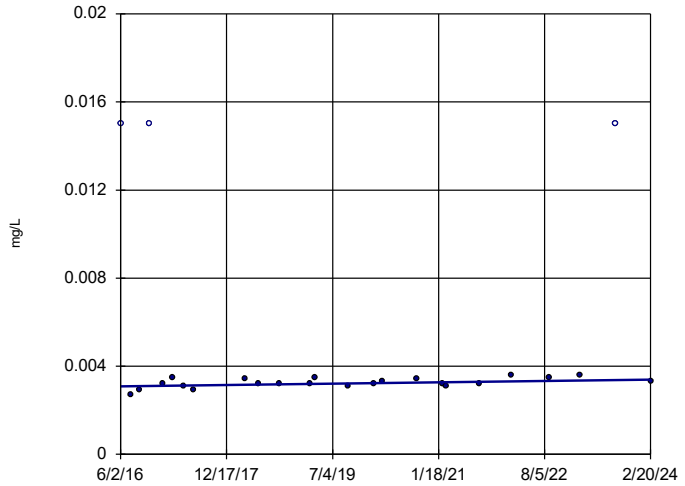
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 4/25/2024 4:23 PM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5I (bg)



n = 25

Slope = 0.00004063 units per year.

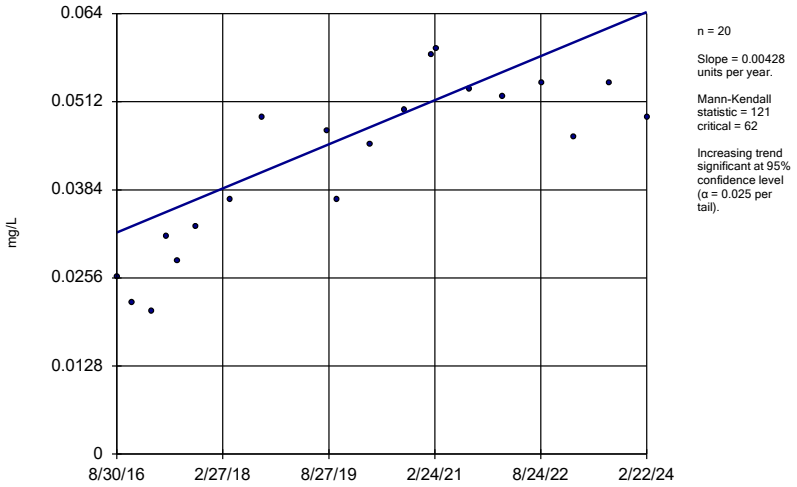
Mann-Kendall statistic = 68
critical = 85

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 4/25/2024 4:24 PM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWC-42



n = 20

Slope = 0.00428 units per year.

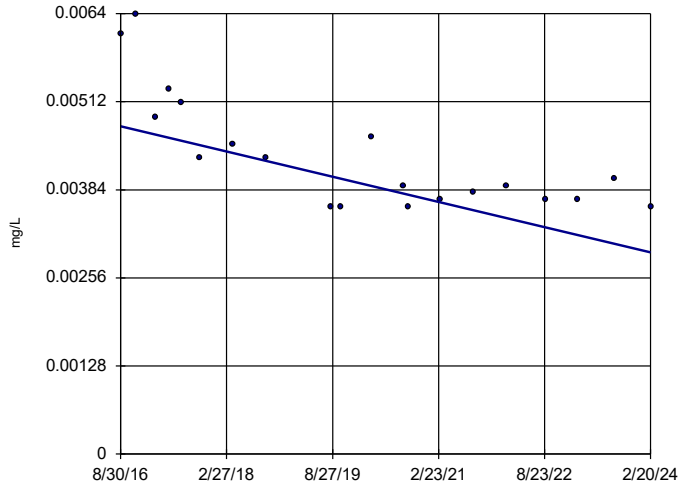
Mann-Kendall statistic = 121
critical = 62

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 4/25/2024 4:24 PM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-47 (bg)



n = 20

Slope = -0.0002448 units per year.

Mann-Kendall statistic = -103
critical = -62

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 4/25/2024 4:24 PM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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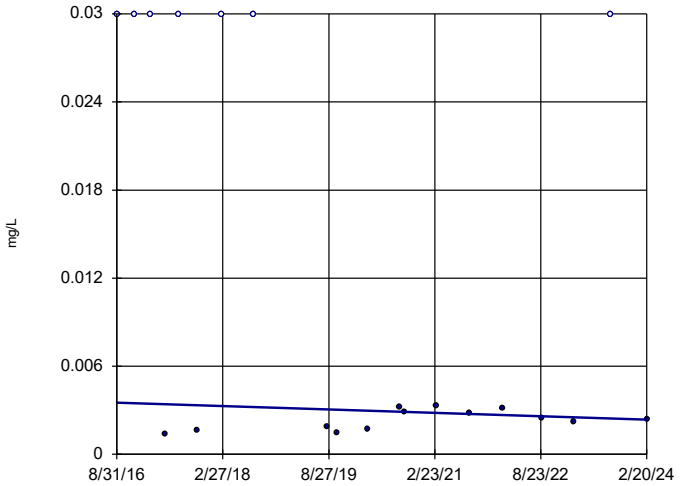
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-2 (bg)



n = 20

Slope = -0.0001531 units per year.

Mann-Kendall statistic = -31
critical = -62

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 4/25/2024 4:24 PM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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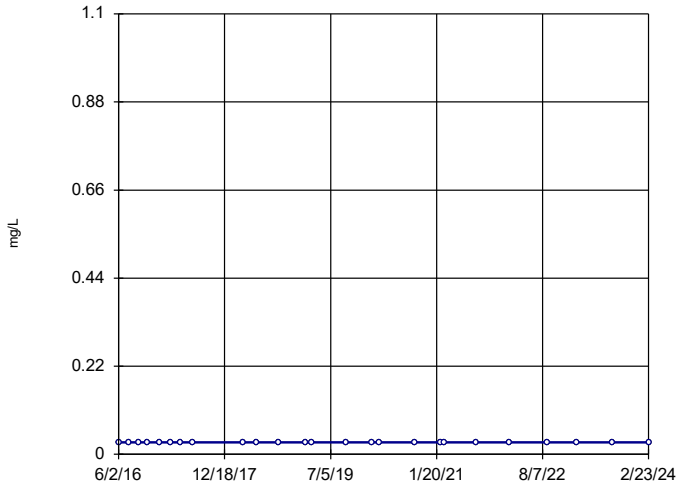
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-14S (bg)



n = 25

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 85

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 4/25/2024 4:24 PM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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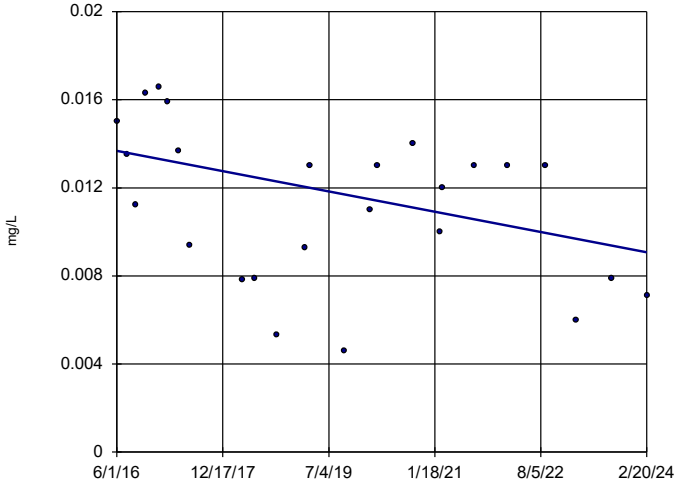
Sen's Slope Estimator

YGWA-1D (bg)



n = 25

Slope = -0.0005977 units per year.

Mann-Kendall statistic = -85
critical = -85

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 4/25/2024 4:24 PM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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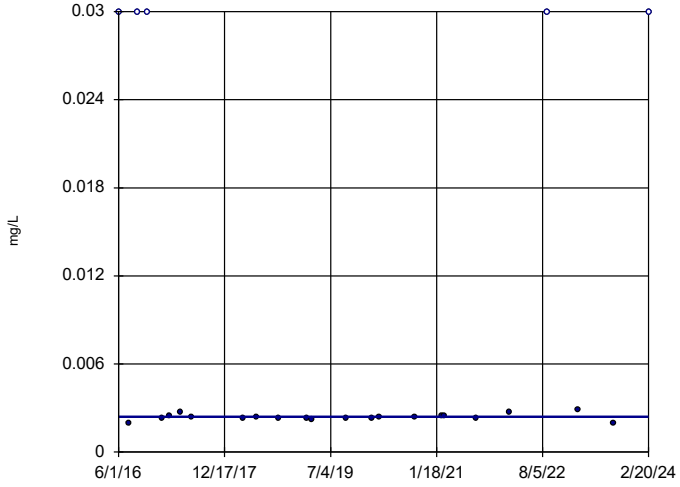
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-1I (bg)



n = 25

Slope = 0 units per year.

Mann-Kendall statistic = 12
critical = 85

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 4/25/2024 4:24 PM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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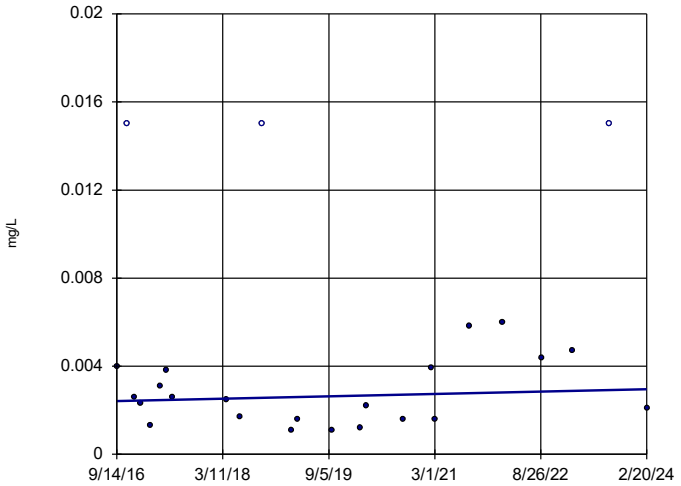
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-2I (bg)



n = 25

Slope = 0.0000725 units per year.

Mann-Kendall statistic = 14
critical = 85

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 4/25/2024 4:24 PM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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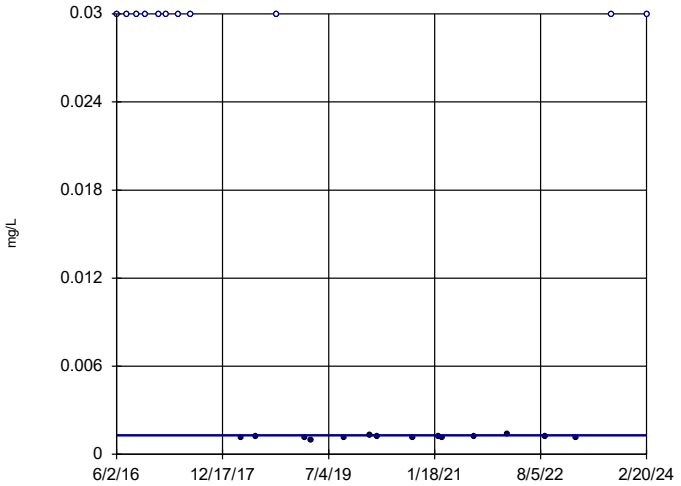
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-30I (bg)



n = 25

Slope = 0 units per year.

Mann-Kendall statistic = -76
critical = -85

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 4/25/2024 4:24 PM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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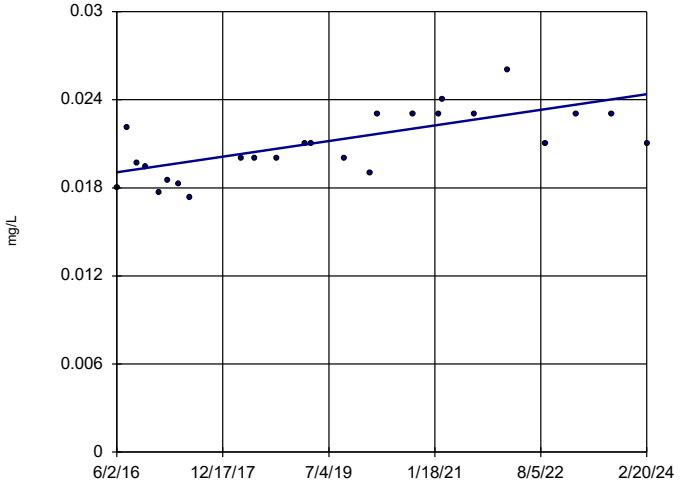
Sen's Slope Estimator

YGWA-3D (bg)



n = 25

Slope = 0.0006885 units per year.

Mann-Kendall statistic = 155
critical = 85

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 4/25/2024 4:24 PM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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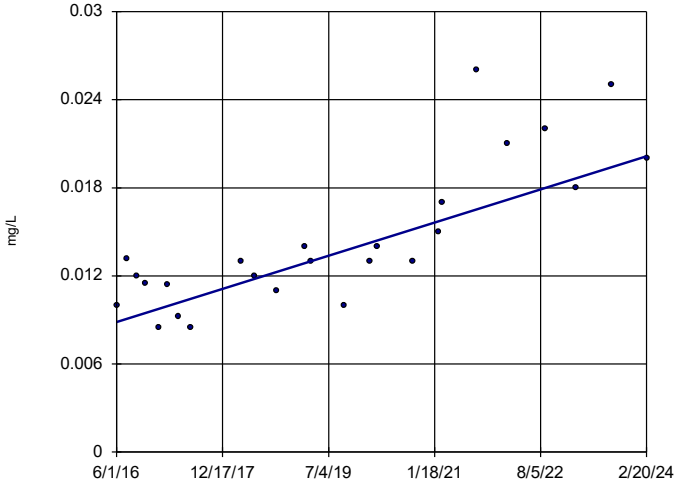
Sen's Slope Estimator

YGWA-3I (bg)



n = 25

Slope = 0.001462 units per year.

Mann-Kendall statistic = 178
critical = 85

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 4/25/2024 4:24 PM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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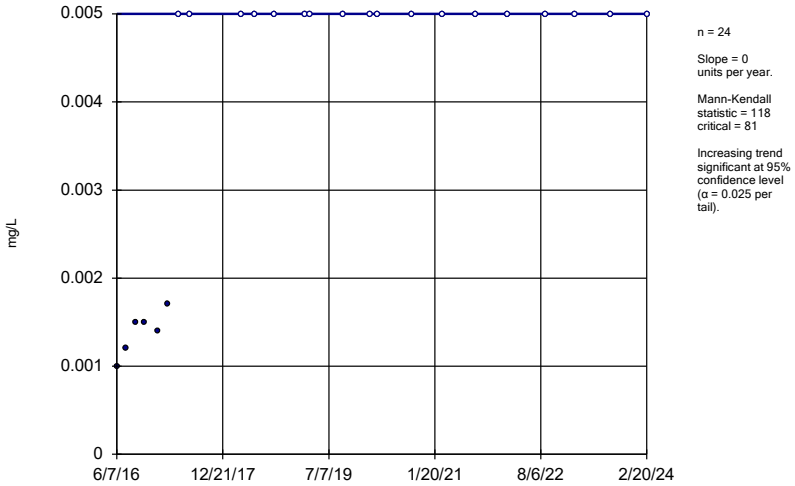
Sen's Slope Estimator

YGWA-17S (bg)



n = 24

Slope = 0 units per year.

Mann-Kendall statistic = 118
critical = 81

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 4/25/2024 4:24 PM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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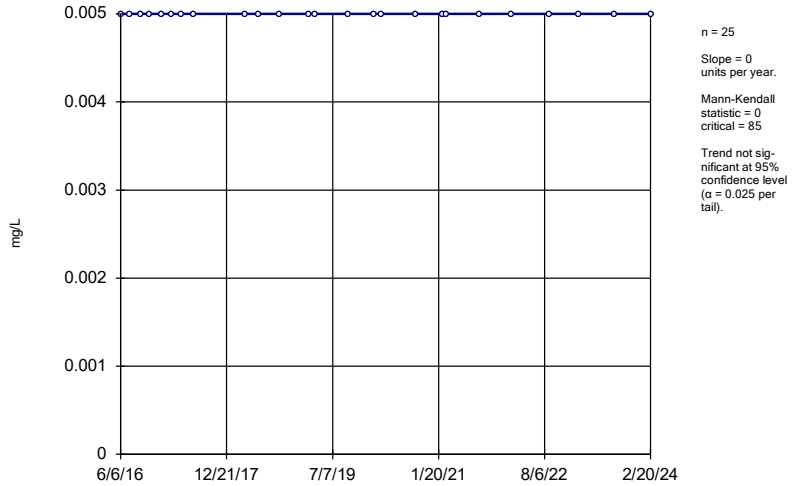
Sen's Slope Estimator

YGWA-18I (bg)



n = 25

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 85

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 4/25/2024 4:24 PM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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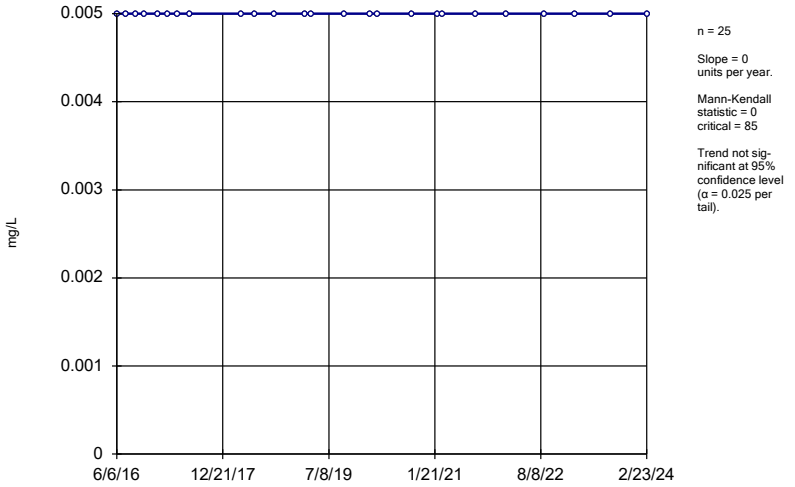
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18S (bg)



n = 25

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 85

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 4/25/2024 4:24 PM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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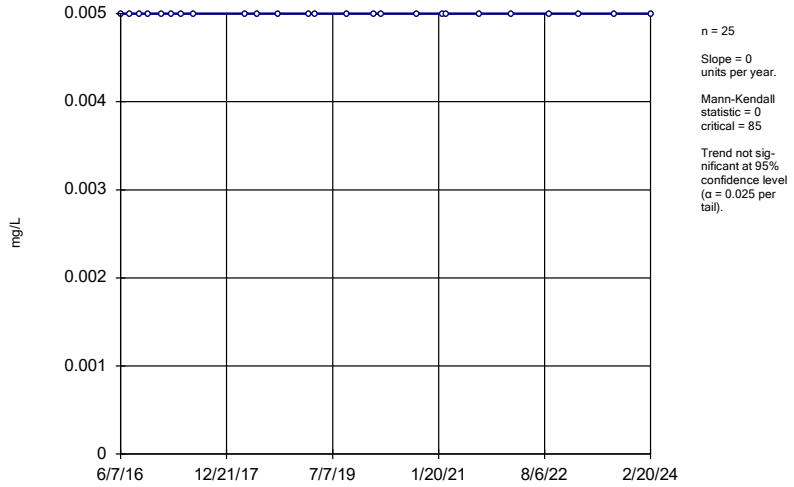
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-20S (bg)



n = 25

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 85

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 4/25/2024 4:24 PM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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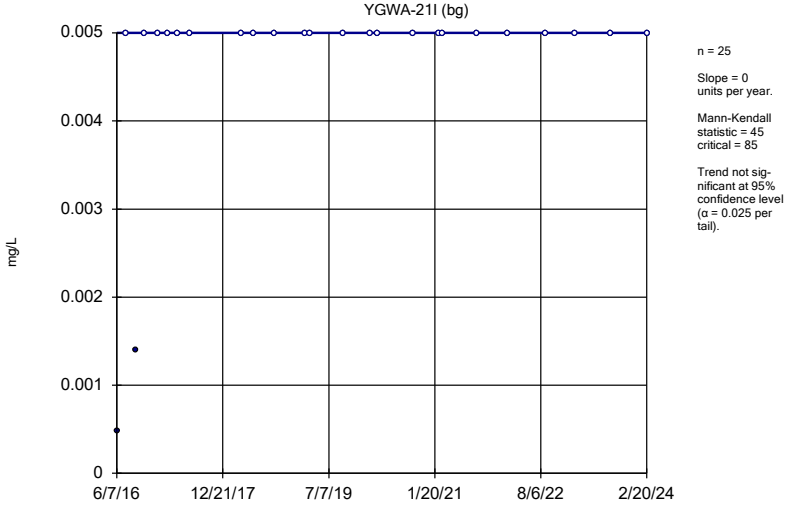
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-21I (bg)



n = 25

Slope = 0 units per year.

Mann-Kendall statistic = 45
critical = 85

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 4/25/2024 4:24 PM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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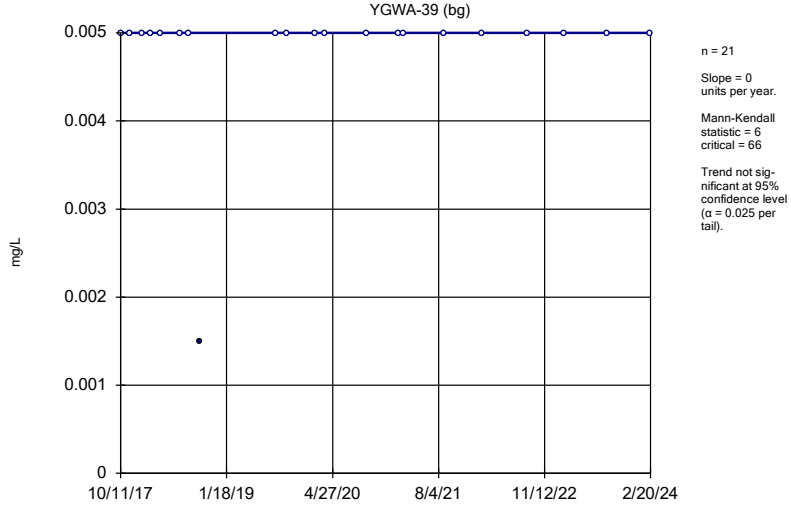
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-39 (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = 6
critical = 66

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 4/25/2024 4:24 PM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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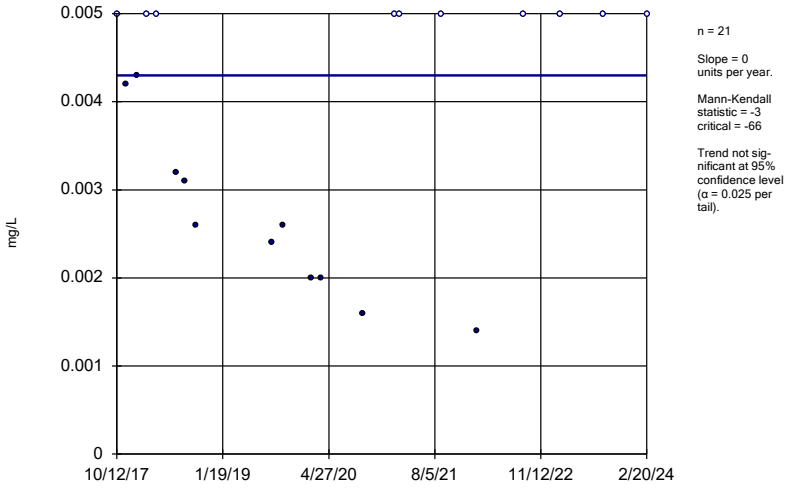
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-40 (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = -3
critical = -66

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 4/25/2024 4:24 PM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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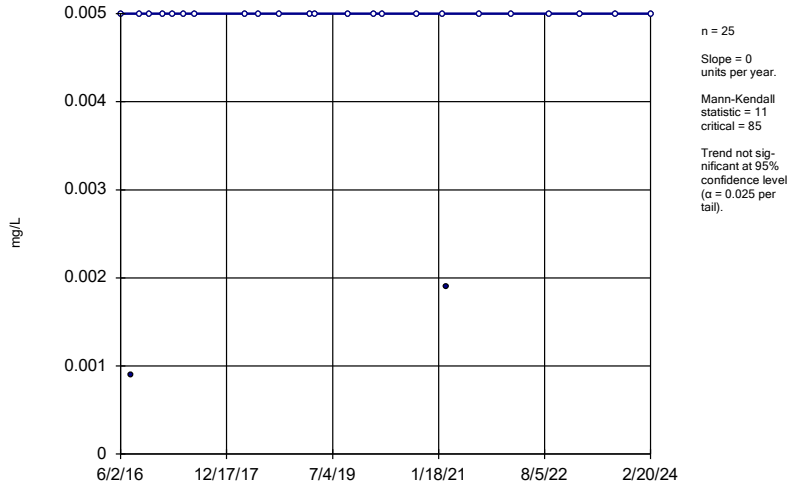
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-4I (bg)



n = 25

Slope = 0 units per year.

Mann-Kendall statistic = 11
critical = 85

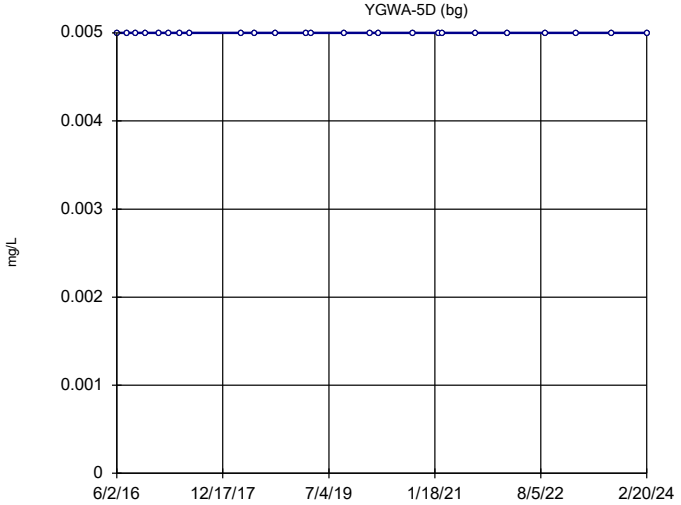
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 4/25/2024 4:24 PM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5D (bg)



n = 25

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 85

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 4/25/2024 4:24 PM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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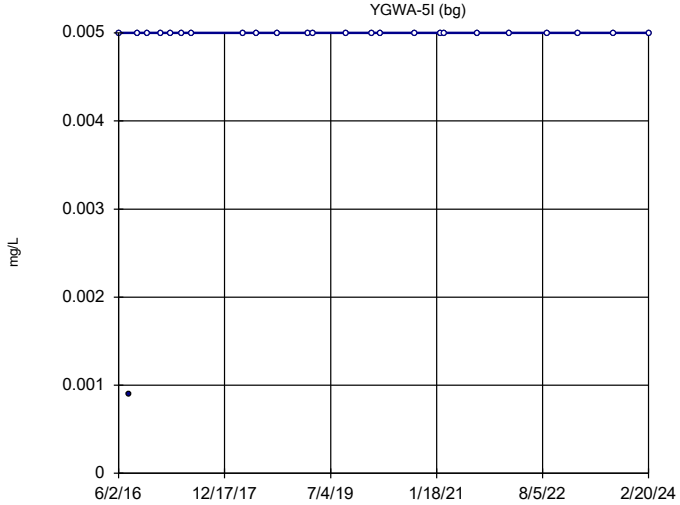
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5I (bg)



n = 25

Slope = 0 units per year.

Mann-Kendall statistic = 22 critical = 85

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 4/25/2024 4:24 PM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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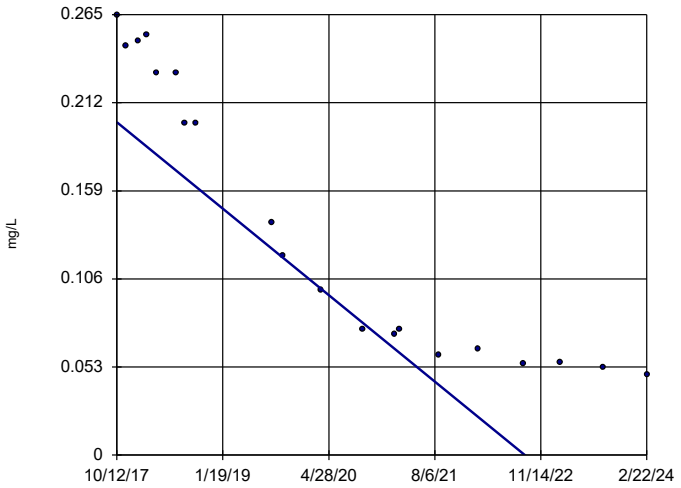
Sen's Slope Estimator

YGWC-38



n = 20

Slope = -0.04086 units per year.

Mann-Kendall statistic = -175 critical = -62

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 4/25/2024 4:24 PM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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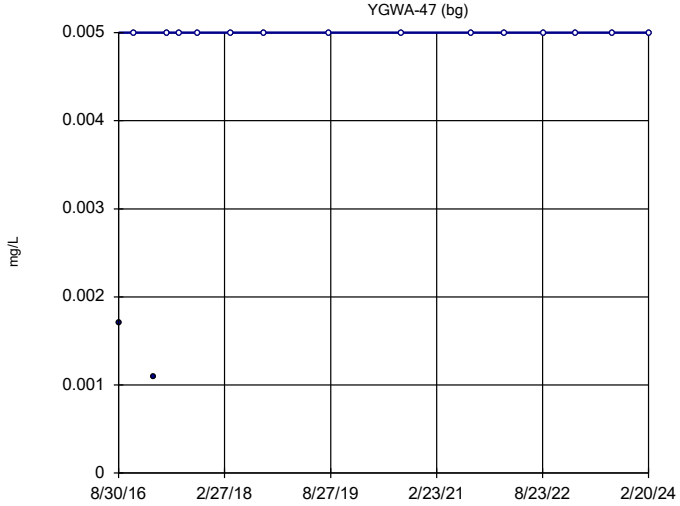
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-47 (bg)



n = 16

Slope = 0 units per year.

Mann-Kendall statistic = 25 critical = 45

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 4/25/2024 4:24 PM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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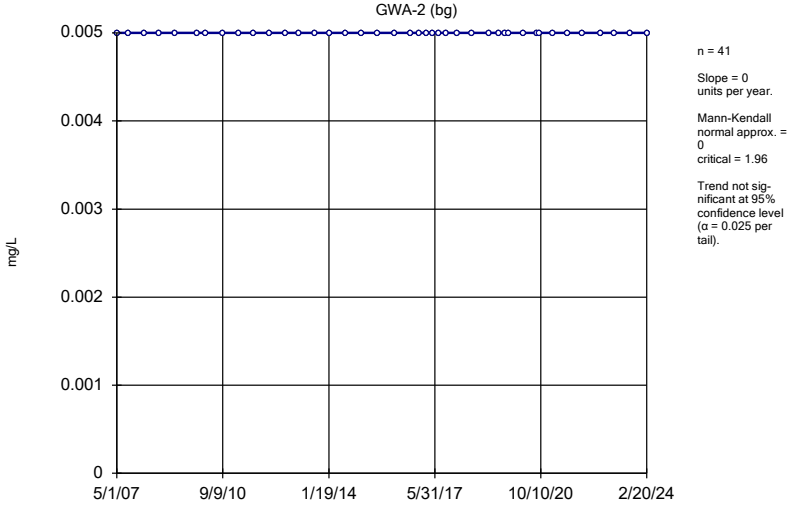
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-2 (bg)



n = 41

Slope = 0 units per year.

Mann-Kendall normal approx. = 0
critical = 1.96

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 4/25/2024 4:24 PM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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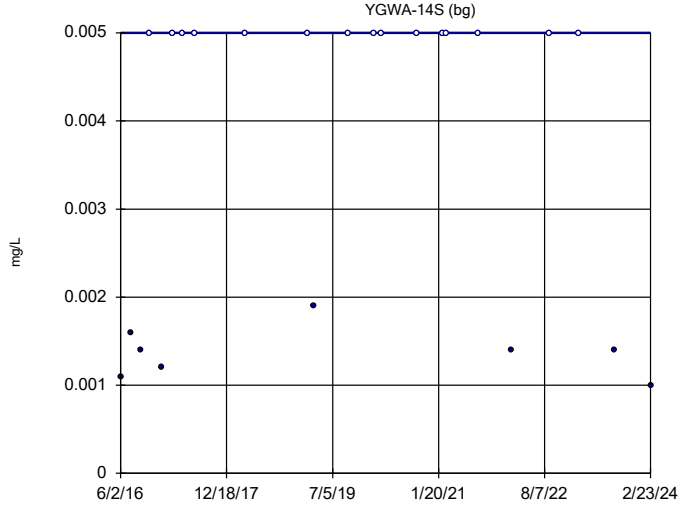
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-14S (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = 17
critical = 76

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 4/25/2024 4:24 PM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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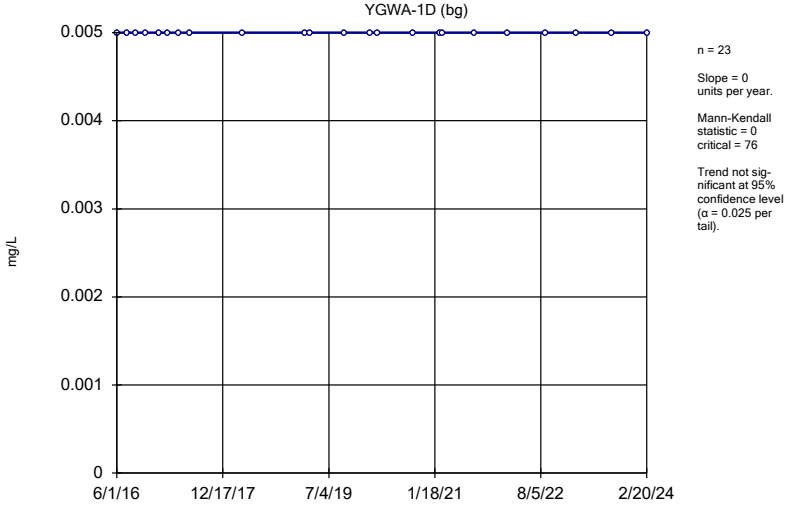
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-1D (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 76

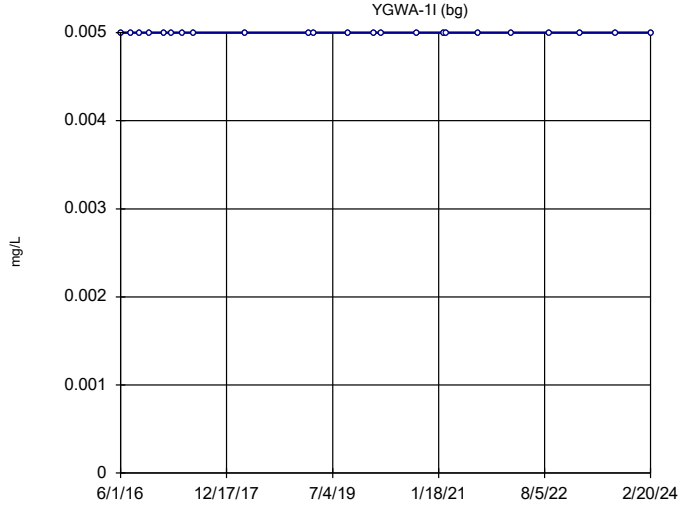
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 4/25/2024 4:24 PM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-1I (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 76

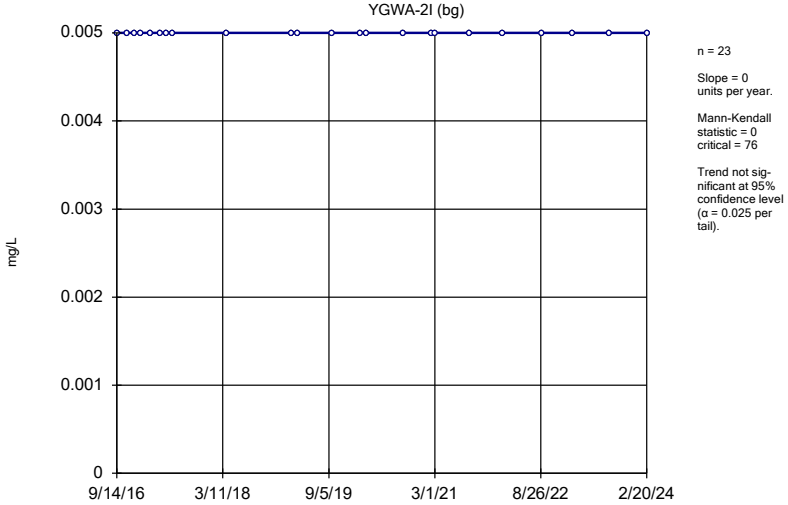
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 4/25/2024 4:24 PM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-2I (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 76

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 4/25/2024 4:24 PM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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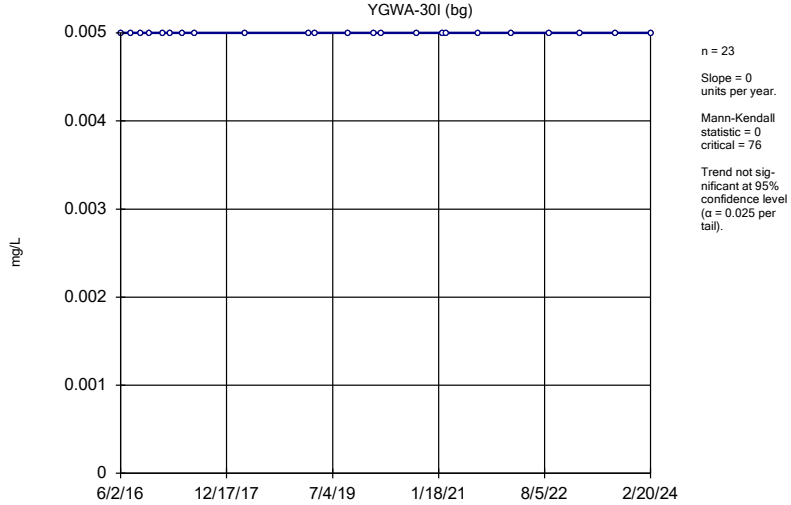
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-30I (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 76

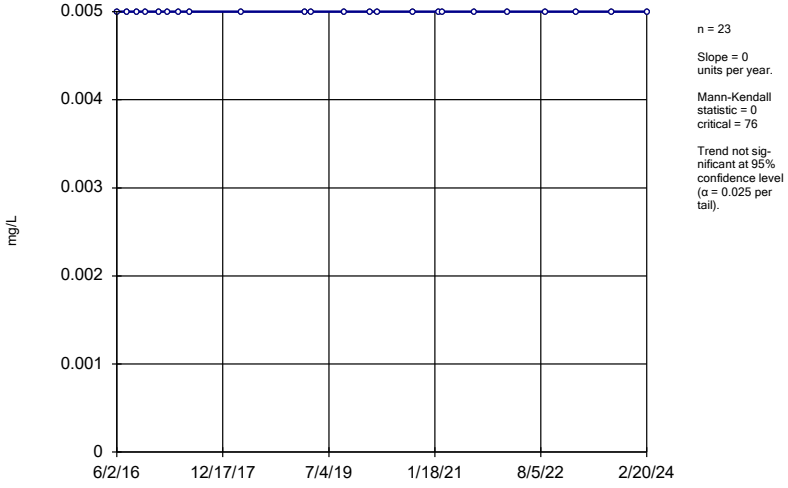
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 4/25/2024 4:24 PM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3D (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 76

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 4/25/2024 4:24 PM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

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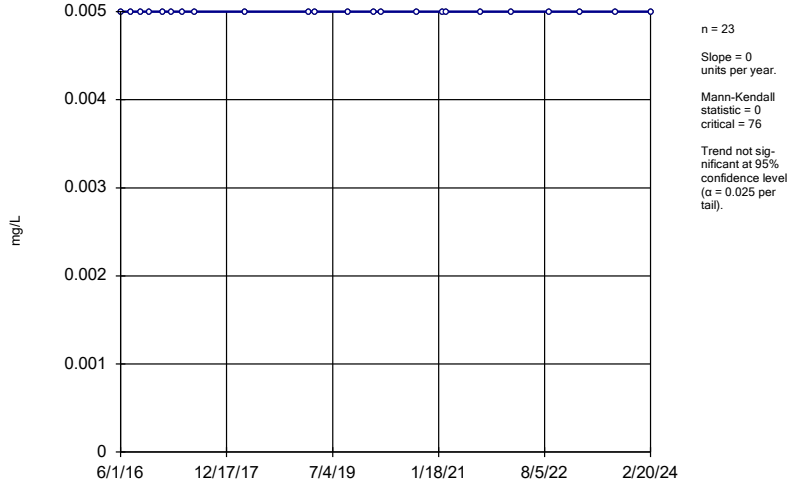
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3I (bg)



n = 23

Slope = 0 units per year.

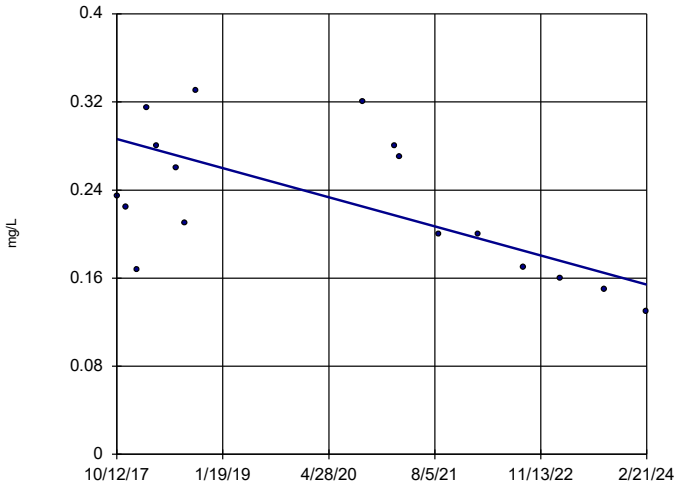
Mann-Kendall statistic = 0 critical = 76

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 4/25/2024 4:24 PM View: Appendix IV Trend Tests
Plant Yates Data: Plant Yates AMA-R6

Sen's Slope Estimator

PZ-37



n = 17

Slope = -0.02079 units per year.

Mann-Kendall statistic = -60
critical = -49

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 4/25/2024 4:24 PM View: Appendix IV Trend Tests

Plant Yates Data: Plant Yates AMA-R6

August 2024

GROUNDWATER STATS CONSULTING

January 31, 2025

Southern Company Services
Attn: Mr. Trey Singleton
3535 Colonnade Parkway
Birmingham, AL 35243

Re: Plant Yates Ash Management Area (AMA) and R6 CCR Landfill
August 2024 Statistical Analysis

Dear Mr. Singleton,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the August 2024 semi-annual Groundwater Detection and Assessment Monitoring statistical analysis for Georgia Power Company's Plant Yates Ash Management Area (AMA) and R6 CCR Landfill. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals from Electric Utilities (CCR Rule, 2015), the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management Chapter 391-3-4-.10, and follows the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Sampling for the Appendix III parameters began in 2016 at most wells. Semi-annual sampling of the majority of constituents has been performed for several years in accordance with the Georgia Department of Natural Resources, Environmental Protection Division groundwater monitoring regulations. A list of all parameters is provided below.

The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:**
  - **AP-1:** YGWA-47

        - **AP-2:** YGWA-1D, YGWA-1I, YGWA-2I, YGWA-3D, YGWA-3I, YGWA-14S, and YGWA-30I
        - **Gypsum Landfill:** GWA-2
        - **AMA-R6:** YGWA-17S, YGWA-18I, YGWA-18S, YGWA-20S, YGWA-21I, YGWA-39, YGWA-40, YGWA-4I, YGWA-5D, and YGWA-5I
    - **Downgradient wells:** YGWC-23S, YGWC-24SB, YGWC-36A, YGWC-38, YGWC-41, YGWC-42, YGWC-43, YGWC-49, and YGWC-50
    - **Assessment wells:** YAMW-1, YAMW-2, YAMW-3, YAMW-4, YAMW-5, PZ-35, PZ-37, PZ-37D, PZ-51, PZ-52D, and PZ-54D

Data from downgradient wells are evaluated for Appendix III and IV constituents, as described below, when a minimum of 8 samples is available. Downgradient well YGWC-50 was first sampled during the August 2023 event and has a maximum of 6 samples. Assessment wells are evaluated for Appendix IV constituents when a minimum of 4 samples is available. Assessment well PZ-54D was first sampled in June 2024 and has a maximum of 2 samples. Data from these wells were plotted on time series and box plots for all constituents.

Downgradient well YGWC-24SA was installed in June 2020 as a replacement well for well YGWC-24S; however, it was abandoned and replacement well YGWC-24SB was installed in late 2022 and first sampled in February 2023. Historical data from wells YGWC-24, YGWC-24SA were combined with data from well YGWC-24SB. Downgradient well YGWC-36A was installed in September 2020 as a replacement well for YGWC-36 to supplement existing data for each constituent. Historical data from well YGWC-36 were combined with data from well YGWC-36A. Replacement wells YGWC-24SB and YGWC-36A are evaluated in this report for Appendix III and IV constituents.

When a minimum of 8 samples has been collected from new well YGWC-24SB, the Mann-Whitney test will be used to compare newer observations to historical observations for Append IV constituents and evaluate whether the populations of data are statistically different. In cases where statistically significant differences are identified at the 99% confidence level, the historical record is truncated so that only data from the new wells, which may be more representative of current groundwater quality, are evaluated for the Appendix IV constituents in the confidence interval comparisons to respective Groundwater Protection Standards. This evaluation was previously performed for well YGWC-36A and is discussed below.

All data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Dr. Jim Loftis, Civil & Environmental Engineering professor

emeritus at Colorado State University and Senior Advisor to Groundwater Stats Consulting.

The CCR program consists of the constituents listed below. The terms "parameters" and "constituents" are used interchangeably.

- **Appendix III** (Detection Monitoring) **-** boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **Appendix IV** (Assessment Monitoring) **–** antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A summary of Appendix IV downgradient and assessment well/constituent pairs containing 100% non-detects follows this letter.

Combined upgradient well data from all units at Plant Yates are utilized to construct statistical limits for Appendix III and IV parameters. Although upgradient well GWA-2 was not sampled during the August 2024 event, data from this well are still 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. During previous events, elevated reporting limits occurred for beryllium, boron, cobalt, and lithium due to higher dilution factors at some wells; therefore, current reporting limits of 0.0005 mg/L, 0.04 mg/L, 0.005 mg/L, and 0.03 mg/L were substituted across all wells for each respective constituent.

Time series plots for Appendix III and IV parameters at all wells are provided for the purpose of screening data at these wells (Figure A). Additionally, a separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of flagged outliers follows this report (Figure C).

During previous screenings, data at all wells for constituents detected in downgradient wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. A power curve was previously provided and demonstrated that the selected statistical methods for the parameters listed above comply with the USEPA Unified Guidance and the Georgia Environmental Protection Division Rules for Solid Waste Management Chapter 391-3-4-.10. The EPA suggests the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations.

Summary of Statistical Methods – Appendix III and IV Parameters

Based on the April 2019 evaluation and state and federal regulatory requirements described below, the following methods were selected for Appendix III and IV constituents:

- Appendix III: Interwell prediction limits, combined with a 1-of-2 resample plan for boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- Appendix IV: Confidence intervals for antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. Parametric prediction limits (or tolerance limits or confidence intervals as applicable) are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are non-detects, a nonparametric test is utilized. While the false positive rate associated with the parametric limits is based on an annual 10% (5% per semi-annual event) as recommended by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric limits is dependent upon the available background sample size, number of future comparisons, and verification resample plan. The following approaches are used for handling non-detects (USEPA, 2009):

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data for parametric limits. This technique

adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.

- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data during each event after careful screening for any new outliers. In some cases, the earlier portion of data are deselected prior to construction of limits to provide sensitive limits that will rapidly detect changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs.

Summary of Background Screening Conducted in April 2019

Outlier Analysis

Time series plots were used to identify suspected outliers, or extreme values that would result in limits that are not representative of the current background data population. Suspected outliers at all wells for Appendix III and Appendix IV parameters were formally tested using Tukey's box plot method and, when identified, flagged in the computer database with "o" and deselected prior to construction of statistical limits.

Using the Tukey box plot method, several outliers were identified. When the most recent value is identified as an outlier, values are not flagged in the database at this time as they may represent a possible trend. If future values do not remain at similar concentrations, these values will be flagged as outliers and deselected. Several low values exist in the data sets and appear on the graphs as possible low outliers relative to the laboratory's Practical Quantitation Limit. However, these values are observed trace values (i.e., measurements reported by the laboratory between the Method Detection Limit and the Practical Quantitation Limit) and, therefore, were not flagged as outliers.

During the time of the screening, none of the outliers identified by Tukey's method were flagged in the database as all values were either similar to remaining measurements within the same well and neighboring wells, or the values were reported non-detects. Subsequently, when all upgradient wells were pooled to construct statistical limits, one detected value of 6.3 s.u. for pH at well YGWA-47 (an upgradient well from AP-1) was flagged as an outlier because it was unusually high during a single event compared to all

other values at neighboring wells. When any values are flagged in the database as outliers, they are plotted in a disconnected and lighter symbol on the time series graph. The accompanying data pages will display the flagged value in a lighter font as well. A substitution of the most recent reporting limit was applied when varying detection limits existed in data. When the reporting limit was higher than the CCR-rule specified levels discussed below, non-detects were substituted with one half the reporting limit.

Seasonality

No obvious seasonal patterns were observed on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were made to the data. When seasonal patterns are observed, data may be deseasonalized so that the resulting limits will correctly account for the seasonality as a predictable pattern rather than random variation or a release.

Trend Test Evaluation

While trends may be identified by visual inspection, a quantification of the trend and its significance is needed. The Sen's Slope/Mann Kendall trend test was used to evaluate all data at each well to identify statistically significant increasing or decreasing trends, and the results of those findings were submitted with the screening. In the absence of suspected contamination, significant trending data are typically not included as part of the background data used for construction of prediction limits. This step serves to eliminate the trend and, thus, reduce variation in background. When statistically significant decreasing trends are present, all available data are evaluated to determine whether earlier concentration levels are significantly different than current reported concentrations and will be deselected as necessary. When any records of data are truncated for the reasons above, a summary report will be provided to show the date ranges used in construction of the statistical limits.

The results of the trend analyses showed several statistically significant decreasing and increasing trends for the Appendix III parameters. Most of the trends noted were relatively low in magnitude when compared to average concentrations, and the background time period was short with only two years of record, making it difficult to separate trends from normal year-to-year variation; therefore, no adjustments were made to the data sets at that time. If the observed decreasing or increasing trends persist over a longer time frame, some records may need to be truncated.

Appendix III – Determination of Spatial Variation

The Analysis of Variance (ANOVA) was used to statistically evaluate differences in average concentrations among upgradient wells, which assists in identifying the most appropriate statistical approach. Interwell tests, which compare downgradient well data to statistical limits constructed from pooled upgradient well data, are appropriate when average concentrations are similar across upgradient wells. Intrawell tests, which compare compliance data from a single well to screened historical data within the same well, are appropriate when upgradient wells exhibit spatial variation; when statistical limits constructed from upgradient wells are not representative of the current background data population; and when downgradient water quality is unimpacted compared to upgradient water quality for the same parameter.

The ANOVA identified variation among upgradient well data for all Appendix III parameters. These constituents were further evaluated during the screening for the appropriateness of intrawell or interwell methods for each constituent. However, interwell methods will be used for all Appendix III constituents in accordance with Georgia EPD requirements.

Summary of Background Update Conducted in 2024

Outlier Analysis

Time series plots were used to identify suspected outliers, or extreme values that would result in limits that are not representative of the current background data population. Suspected outliers at all wells for Appendix III and Appendix IV parameters were formally tested using Tukey's box plot method and, when identified, flagged in the computer database with "o" and deselected prior to construction of statistical limits. When the most recent value is identified as an outlier, values are not flagged in the database at this time as the measurements may represent a possible trend. If future values do not remain at similar concentrations, these values will be flagged as outliers and deselected. Several low values exist in the data sets and appear on the graphs as possible low outliers relative to the laboratory's Practical Quantitation Limit. However, these values are observed trace values (i.e., measurements reported by the laboratory between the Method Detection Limit and the Practical Quantitation Limit) and, therefore, were not flagged as outliers.

Using the Tukey box plot method, several outliers were identified and both Tukey's test and visual screening confirmed values flagged from previous analyses (Figure C). An exception is for one detected value of 6.3 s.u. for pH at well YGWA-47 that was previously flagged as an outlier because it was high during a single event compared to all other

values at neighboring wells. However, when compared among pooled upgradient well data, this value is no longer spurious and was unflagged during this analysis. 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 (Figure D). In the absence of suspected contamination, significant trending data are typically not included as part of the background data used for construction of prediction limits. This step serves to eliminate the trend and, thus, reduce variation in background. When statistically significant decreasing trends are present, all available data are evaluated to determine whether earlier concentration levels are significantly different than current reported concentrations and will be deselected as necessary. When any records of data are truncated for the reasons above, a summary report will be provided to show the date ranges used in construction of the statistical limits.

The results of the trend analyses showed several statistically significant decreasing and increasing trends for the Appendix III and IV parameters. However, the trends noted were relatively low in magnitude compared to average pooled upgradient concentrations. Therefore, no adjustments were made to the data sets at this time. If the observed

decreasing or increasing trends persist over a longer time frame and influence resulting statistical limits, some records may need to be truncated.

Statistical Analysis of Appendix III Parameters – August 2024

All Appendix III parameters were analyzed using interwell prediction limits. Background (upgradient) well data were reassessed for potential outliers during this analysis. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. During the previous analysis, the data were not normally distributed when constructing the statistical limit for TDS; therefore, the highest value observed during the February 2024 event at upgradient well YGWA-5D was flagged for Appendix III parameters in order to maintain statistical limits that are conservative 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 upgradient well data through August 2024 (Figure E). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The August 2024 sample from each downgradient well is compared to the background limit to determine whether initial exceedances are present.

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When a resample confirms the initial exceedance, a statistically significant increase is identified and further research would be required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result and, therefore, no exceedance is noted and no further action is necessary. If no resample is collected, the original result is considered a confirmed exceedance. A summary table of the interwell prediction limits follows this letter. Prediction limit exceedances were noted for the following Appendix III well/constituent pairs:

- Boron: YGWC-23S, YGWC-38, YGWC-41, YGWC-42, and YGWC-43
- Calcium: YGWC-36A, YGWC-38, and YGWC-42
- Sulfate: YGWC-36A, YGWC-38, YGWC-42, and YGWC-43
- TDS: YGWC-36A, YGWC-38, YGWC-42, and YGWC-43

Trend Test Evaluation – Appendix III

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable at the 99% confidence level (Figure F). Upgradient wells are included in the trend analyses for all parameters found to exceed their prediction limit in downgradient wells to identify whether similar patterns exist upgradient of the site. Upgradient trends are an indication of spatial variability in groundwater quality that is unrelated to practices at the site. Both a summary and complete graphical results of the trend tests follow this report. Statistically significant trends were identified for the following well/constituent pairs:

Increasing trends

- Boron: YGWA-5D, YGWA-39 (both upgradient), and YGWC-43
- Calcium: GWA-2, YGWA-1D, YGWA-3I, YGWA-5I, YGWA-17S, and YGWA-39 (all upgradient)
- Sulfate: GWA-2, YGWA-1D, YGWA-2I, YGWA-3D, YGWA-3I, and YGWA-5I (all upgradient)
- TDS: YGWA-21I, YGWA-39 (both upgradient), and YGWC-43

Decreasing trends

- Boron: YGWA-40 (upgradient), YGWC-38, YGWC-41, and YGWC-42
- Calcium: YGWA-1I, YGWA-5D, YGWA-18S, YGWA-47 (all upgradient), YGWC-38, and YGWC-42
- Sulfate: YGWA-5D, YGWA-18I, YGWA-39, YGWA-40, YGWA-47 (all upgradient), YGWC-38, and YGWC-42
- TDS: YGWA-47 (upgradient), YGWC-38, and YGWC-42

Statistical Analysis of Appendix IV Parameters – August 2024

For analysis of Appendix IV parameters, confidence intervals for each downgradient and assessment well/constituent were compared against corresponding Groundwater Protection Standards (GWPS). GWPS were developed as described below. Data from all wells for Appendix IV parameters are reassessed for outliers during each analysis.

The reported measurements of cobalt from August 2020 through August 2022 in upgradient well GWA-2 were previously flagged as outliers as these measurements were two orders of magnitude higher than remaining measurements at this well. This step results in statistical limits that are conservative (i.e., lower) from a regulatory perspective. If further studies indicate these measurements represent spatial variation in groundwater

quality, the values will be re-evaluated for construction of interwell tolerance limits. Note that a November 2021 observation for lithium at YAMW-3 was added to the database during this analysis, but was flagged as an outlier since this sample was collected prior to the well's redevelopment. A summary of flagged outliers follows this report (Figure C).

Mann-Whitney Test

During the previous analysis, the Mann-Whitney (Wilcoxon Rank Sum) test was used to compare the median of observations sampled before October 2020 at abandoned well YGWC-36 to the median of the 8 most recent observations sampled at well YGWC-36A for each Appendix IV parameters. When no variation was present between historical data and compliance samples, the Mann-Whitney test was not performed, which was the case for mercury and thallium. When the populations of the two groups are statistically significantly different at the 99% confidence level (such as cadmium and lithium), the historical data sampled from abandoned well YGWC-36 are truncated to only use data from well YGWC-36A. The earlier data are shown on the time series as disconnected point and in a lighter font on the data pages. A list of constituents using truncated records follows this report.

Interwell Upper Tolerance Limits

Interwell tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through August 2024 for Appendix IV constituents (Figure G). Parametric tolerance limits are used when data follow a normal or transformed-normal distribution. When data contained greater than 50% non-detects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were used. When the alpha level (or false positive rate) for a nonparametric limit is shown as NaN in the results table, it indicates that the background sample size is large enough such that the resulting alpha level (or false positive rate) is too small to display in the results table.

Groundwater Protection Standards

The background limits were then used when determining the groundwater protection standard (GWPS) under 40 CFR §257.95(h) and Georgia EPD Rule 391-3-4-.10(6)(a). On July 30, 2018, US EPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR §257.95(h)(2). Effective on February 22, 2022, Georgia EPD incorporated the updated GWPS into the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a). In accordance with the updated Rules, the GWPS is:

- The maximum contaminant level (MCL) established under §141.62 and §141.66 of this title
- Where an MCL has not been established for a constituent, Federal and State CCR Rules specify levels for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), and molybdenum (0.100 mg/L)
- The respective background level for a constituent when the background level is higher than the MCL or Federal CCR Rule identified GWPS

Following Georgia EPD Rule requirements and the Federal CCR requirements, GWPS were established for statistical comparison of Appendix IV constituents for this sample event (Figure H).

Confidence Intervals

To complete the statistical comparison to GWPS, confidence intervals were constructed on downgradient and assessment wells for each of the Appendix IV constituents in accordance with the state requirements. Assessment wells are included when a minimum of 4 samples is available.

The Sanitas software was used to calculate the confidence intervals, either parametric or nonparametric, depending on the data distribution and percentage of non-detects. When data followed a normal or transformed-normal distribution, parametric confidence intervals were used for Appendix IV parameters. Nonparametric confidence intervals, which use the appropriate order statistics, depending on the sample size, as interval limits, were constructed when data did not follow a normal or transformed-normal distribution or when there were greater than 50% non-detects. The lower confidence limit, which is constructed with 99% confidence for parametric confidence intervals, is compared to the GWPS prepared as described above. The achievable confidence level associated with nonparametric confidence intervals is dependent upon the number samples available.

Due to the limited sample size for combined radium at well PZ-51, the parametric confidence interval was wide and resulted in a negative lower confidence limit. Therefore, a nonparametric confidence interval was constructed for this well/constituent pair and may be found at the end of the confidence interval results. This is a more conservative approach in that the lower confidence limit reflects the lowest measurement in the data set for a given well rather than a negative number.

Although trend analysis for Appendix IV parameters in downgradient wells is not routinely included in data screening, records with visually apparent trends may be formally tested using the Sen's Slope/Mann-Kendall trend test at the 95% confidence level. When

statistically significant trends are identified, the record may require truncation prior to construction of confidence intervals if earlier concentrations no longer represent current average conditions (USEPA Unified Guidance, 2009, Chapter 7). Note that due to a statistically significant decreasing trend for selenium at downgradient well YGWC-38 and a statistically significant increasing trend for lithium at YGWC-42 (Figure I), only the most recent 8 and relatively stable observations were used to construct a confidence interval to represent the current average and current groundwater quality conditions. As mentioned above, the records for cadmium and lithium at downgradient well YGWC-36A were also evaluated with confidence intervals using only the most recent measurements. A list of well/constituent pairs that use a truncated portion of their record follows this letter.

Only when the entire confidence interval is above a GWPS is the well/constituent pair considered to exceed its respective standard. If there is an exceedance of the GWPS, a statistically significant level (SSL) exceedance is identified. A summary of the confidence intervals follows this letter (Figure J). Exceedances were noted for the following well/constituent pairs:

- Lithium: YGWC-42
- Selenium: PZ-37

Trend Test Evaluation – Appendix IV

Assessment monitoring well/constituent pairs identified with confidence interval exceedances are further evaluated using the Sen's Slope/Mann-Kendall trend test using 95% confidence (Figure K). Although the trend tests for Assessment monitoring pairs were previously evaluated using 99% confidence, the 95% confidence level more rapidly identifies statistically significant trends. Additionally, the 95% confidence level is recommended in cases with limited sample sizes and, particularly, for new assessment wells. Upgradient wells are included in the trend analyses to identify whether similar patterns exist upgradient of the site for the same constituents. When trends are present in upgradient wells, it is an indication of variability in groundwater quality unrelated to practices at the site. Significant trends were identified for the following well/constituent pairs:

Increasing trends

- Lithium: YGWA-39, YGWA-3D, YGWA-3I (all upgradient), and YGWC-42
- Selenium: YGWA-17S (upgradient)

Decreasing trends

- Lithium: YGWA-18I, YGWA-47, and YGWA-1D (all upgradient)
- Selenium: PZ-37

Note that for selenium at upgradient well YGWA-17S, a statistically significant increasing trend was identified. The slope, however, is zero at this well which represents the median slope of all the possible pairwise slopes of the data evaluated.

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Yates Ash Management Area (AMA) and R6 CCR Landfill. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,

Andrew T. Collins
Project Manager

Kristina L. Rayner
Senior Statistician

Date Ranges

Date: 10/17/2024 10:28 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Cadmium (mg/L)
- YGWC-36A overall:10/7/2020-8/22/2024

Lithium (mg/L)
- YGWC-42 overall:3/4/2021-8/22/2024
- YGWC-36A overall:10/7/2020-8/22/2024

Selenium (mg/L)
- YGWC-38 overall:3/4/2021-8/23/2024

100% Non-Detects: Appendix IV Downgradient & Assessment

Analysis Run 10/28/2024 8:24 AM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Antimony (mg/L)
YAMW-2, YAMW-3, PZ-51

Arsenic (mg/L)
YAMW-2

Beryllium (mg/L)
YAMW-4, PZ-37D

Cadmium (mg/L)
YAMW-4, YGWC-43, PZ-37D, PZ-52D, YGWC-24SB

Chromium (mg/L)
PZ-37D, PZ-51

Cobalt (mg/L)
YGWC-23S, YGWC-38, PZ-37D, YGWC-24SB

Fluoride (mg/L)
YAMW-1, PZ-35

Lead (mg/L)
YAMW-3, PZ-37D

Lithium (mg/L)
YAMW-2, YGWC-24SB

Mercury (mg/L)
YAMW-2, YAMW-4, YAMW-5, PZ-35, YGWC-36A, PZ-37D, PZ-52D, PZ-51, YGWC-24SB

Molybdenum (mg/L)
YAMW-5, YGWC-38, PZ-51, YGWC-24SB

Selenium (mg/L)
YGWC-43, PZ-37D, YGWC-24SB

Thallium (mg/L)
YAMW-1, YAMW-2, YAMW-3, YAMW-4, YAMW-5, YGWC-23S, YGWC-38, YGWC-41, YGWC-42, YGWC-43, PZ-35, PZ-37, YGWC-36A, PZ-37D, PZ-52D, PZ-51, YGWC-24SB

Appendix III Trend Tests - Upgradient Wells - Significant Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 11/4/2024, 3:52 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	YGWA-39 (bg)	0.01793	115	81	Yes	20	5	n/a	0.01	NP
Boron (mg/L)	YGWA-40 (bg)	-0.01202	-131	-81	Yes	20	0	n/a	0.01	NP
Boron (mg/L)	YGWA-5D (bg)	0.0007069	99	98	Yes	23	26.09	n/a	0.01	NP
Calcium (mg/L)	YGWA-17S (bg)	0.1465	186	98	Yes	23	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-18S (bg)	-0.06725	-171	-98	Yes	23	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-39 (bg)	2.49	121	81	Yes	20	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-5D (bg)	-1.034	-107	-98	Yes	23	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-5I (bg)	0.06991	145	98	Yes	23	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-47 (bg)	-0.8737	-132	-81	Yes	20	5	n/a	0.01	NP
Calcium (mg/L)	GWA-2 (bg)	2.258	92	81	Yes	20	5	n/a	0.01	NP
Calcium (mg/L)	YGWA-1D (bg)	0.5198	135	98	Yes	23	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-1I (bg)	-0.07033	-126	-98	Yes	23	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-3I (bg)	0.478	103	98	Yes	23	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-17S (bg)	0.914	205	98	Yes	23	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-18I (bg)	0.1003	131	98	Yes	23	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-20S (bg)	0.09204	163	98	Yes	23	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-40 (bg)	0.2393	106	81	Yes	20	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-5D (bg)	-0.5475	-187	-98	Yes	23	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-47 (bg)	-0.3342	-132	-81	Yes	20	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)	-0.0326	-128	-98	Yes	23	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-3I (bg)	-0.0226	-105	-98	Yes	23	0	n/a	0.01	NP
Fluoride (mg/L)	YGWA-3D (bg)	-0.01072	-141	-124	Yes	27	3.704	n/a	0.01	NP
pH (S.U.)	YGWA-18S (bg)	-0.0383	-183	-124	Yes	27	0	n/a	0.01	NP
pH (S.U.)	YGWA-21I (bg)	0.08208	149	124	Yes	27	0	n/a	0.01	NP
pH (S.U.)	YGWA-39 (bg)	-0.1431	-122	-98	Yes	23	0	n/a	0.01	NP
pH (S.U.)	GWA-2 (bg)	-0.04422	-250	-184	Yes	35	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18I (bg)	-0.09033	-116	-98	Yes	23	21.74	n/a	0.01	NP
Sulfate (mg/L)	YGWA-39 (bg)	-2.451	-142	-81	Yes	20	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-40 (bg)	-5.801	-141	-81	Yes	20	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5D (bg)	-2.152	-197	-98	Yes	23	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5I (bg)	0.0842	177	98	Yes	23	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-47 (bg)	-10.68	-149	-81	Yes	20	0	n/a	0.01	NP
Sulfate (mg/L)	GWA-2 (bg)	9.755	89	81	Yes	20	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-1D (bg)	0.8848	191	98	Yes	23	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-2I (bg)	1.44	132	98	Yes	23	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3D (bg)	0.2355	132	98	Yes	23	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3I (bg)	0.8717	133	98	Yes	23	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-21I (bg)	9.422	118	98	Yes	23	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-39 (bg)	25.35	110	81	Yes	20	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-47 (bg)	-9.336	-108	-81	Yes	20	0	n/a	0.01	NP

Appendix IV Trend Tests - Upgradient Wells - Significant Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 10/23/2024, 11:08 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Lithium (mg/L)	YGWA-18I (bg)	-0.000215	-154	-90	Yes	26	7.692	n/a	0.05	NP
Lithium (mg/L)	YGWA-39 (bg)	0.0009005	122	71	Yes	22	4.545	n/a	0.05	NP
Lithium (mg/L)	YGWA-47 (bg)	-0.000209	-119	-66	Yes	21	0	n/a	0.05	NP
Lithium (mg/L)	YGWA-1D (bg)	-0.0007084	-110	-90	Yes	26	0	n/a	0.05	NP
Lithium (mg/L)	YGWA-3D (bg)	0.0005738	158	90	Yes	26	0	n/a	0.05	NP
Lithium (mg/L)	YGWA-3I (bg)	0.001358	190	90	Yes	26	0	n/a	0.05	NP
Molybdenum (mg/L)	YGWA-5D (bg)	-0.0004224	-115	-71	Yes	22	13.64	n/a	0.05	NP
Molybdenum (mg/L)	YGWA-1I (bg)	-0.000784	-216	-90	Yes	26	3.846	n/a	0.05	NP
Molybdenum (mg/L)	YGWA-2I (bg)	0.0004044	137	90	Yes	26	0	n/a	0.05	NP
Molybdenum (mg/L)	YGWA-3D (bg)	0.0003871	166	90	Yes	26	0	n/a	0.05	NP
Molybdenum (mg/L)	YGWA-3I (bg)	0.0004966	102	90	Yes	26	0	n/a	0.05	NP
Selenium (mg/L)	YGWA-17S (bg)	0	124	85	Yes	25	76	n/a	0.05	NP
Arsenic (mg/L)	GWA-2 (bg)	0	-2.681	-1.96	Yes	41	87.8	n/a	0.05	NP
Barium (mg/L)	YGWA-17S (bg)	0.0005801	208	85	Yes	25	0	n/a	0.05	NP
Barium (mg/L)	YGWA-18I (bg)	-0.001001	-236	-90	Yes	26	0	n/a	0.05	NP
Barium (mg/L)	YGWA-18S (bg)	-0.0006772	-137	-90	Yes	26	0	n/a	0.05	NP
Barium (mg/L)	YGWA-20S (bg)	-0.0003692	-133	-90	Yes	26	0	n/a	0.05	NP
Barium (mg/L)	YGWA-39 (bg)	0.0043	150	71	Yes	22	9.091	n/a	0.05	NP
Barium (mg/L)	YGWA-40 (bg)	-0.002482	-103	-71	Yes	22	0	n/a	0.05	NP
Barium (mg/L)	YGWA-4I (bg)	-0.0002834	-107	-90	Yes	26	0	n/a	0.05	NP
Barium (mg/L)	YGWA-5D (bg)	-0.0001426	-92	-90	Yes	26	3.846	n/a	0.05	NP
Barium (mg/L)	YGWA-2I (bg)	-0.0002032	-134	-90	Yes	26	3.846	n/a	0.05	NP
Barium (mg/L)	YGWA-3D (bg)	-0.0005074	-250	-90	Yes	26	3.846	n/a	0.05	NP
Beryllium (mg/L)	YGWA-18S (bg)	-0.000006801	-91	-90	Yes	26	42.31	n/a	0.05	NP
Cobalt (mg/L)	YGWA-39 (bg)	-0.000669	-92	-71	Yes	22	40.91	n/a	0.05	NP
Cobalt (mg/L)	YGWA-47 (bg)	-0.0007522	-144	-66	Yes	21	4.762	n/a	0.05	NP
Cobalt (mg/L)	YGWA-30I (bg)	-0.003971	-310	-90	Yes	26	0	n/a	0.05	NP
Combined Radium 226 + 228 (pCi/L)	YGWA-21I (bg)	0.1046	112	90	Yes	26	0	n/a	0.05	NP
Combined Radium 226 + 228 (pCi/L)	YGWA-40 (bg)	-0.1233	-105	-71	Yes	22	0	n/a	0.05	NP
Combined Radium 226 + 228 (pCi/L)	YGWA-5D (bg)	-0.1935	-108	-90	Yes	26	0	n/a	0.05	NP
Fluoride (mg/L)	YGWA-39 (bg)	0	-79	-76	Yes	23	65.22	n/a	0.05	NP
Fluoride (mg/L)	YGWA-3D (bg)	-0.01072	-141	-96	Yes	27	3.704	n/a	0.05	NP

Appendix III Interwell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 11/4/2024, 4:05 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-23S**	**0.16**	**n/a**	**8/21/2024**	**1.2**	**Yes**	**425**	**n/a**	**n/a**	**52.71**	**n/a**	**n/a**	**0.00004917**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-38**	**0.16**	**n/a**	**8/23/2024**	**3.3**	**Yes**	**425**	**n/a**	**n/a**	**52.71**	**n/a**	**n/a**	**0.00004917**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-41**	**0.16**	**n/a**	**8/23/2024**	**3.2**	**Yes**	**425**	**n/a**	**n/a**	**52.71**	**n/a**	**n/a**	**0.00004917**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-42**	**0.16**	**n/a**	**8/22/2024**	**12.4**	**Yes**	**425**	**n/a**	**n/a**	**52.71**	**n/a**	**n/a**	**0.00004917**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-43**	**0.16**	**n/a**	**8/22/2024**	**3.5**	**Yes**	**425**	**n/a**	**n/a**	**52.71**	**n/a**	**n/a**	**0.00004917**	**NP Inter (NDs) 1 of 2**
Calcium (mg/L)	**YGWC-38**	**37**	**n/a**	**8/23/2024**	**43.8**	**Yes**	**425**	**n/a**	**n/a**	**0.7059**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**YGWC-42**	**37**	**n/a**	**8/22/2024**	**64.4**	**Yes**	**425**	**n/a**	**n/a**	**0.7059**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**YGWC-36A**	**37**	**n/a**	**8/22/2024**	**41.1**	**Yes**	**425**	**n/a**	**n/a**	**0.7059**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**YGWC-38**	**160**	**n/a**	**8/23/2024**	**186**	**Yes**	**425**	**n/a**	**n/a**	**6.118**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**YGWC-42**	**160**	**n/a**	**8/22/2024**	**432**	**Yes**	**425**	**n/a**	**n/a**	**6.118**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**YGWC-43**	**160**	**n/a**	**8/22/2024**	**181**	**Yes**	**425**	**n/a**	**n/a**	**6.118**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**YGWC-36A**	**160**	**n/a**	**8/22/2024**	**191**	**Yes**	**425**	**n/a**	**n/a**	**6.118**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids (mg/L)	**YGWC-38**	**319**	**n/a**	**8/23/2024**	**418**	**Yes**	**424**	**n/a**	**n/a**	**0.4717**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids (mg/L)	**YGWC-42**	**319**	**n/a**	**8/22/2024**	**830**	**Yes**	**424**	**n/a**	**n/a**	**0.4717**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids (mg/L)	**YGWC-43**	**319**	**n/a**	**8/22/2024**	**412**	**Yes**	**424**	**n/a**	**n/a**	**0.4717**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids (mg/L)	**YGWC-36A**	**319**	**n/a**	**8/22/2024**	**783**	**Yes**	**424**	**n/a**	**n/a**	**0.4717**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**

Appendix III Interwell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 11/4/2024, 4:05 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-23S**	**0.16**	**n/a**	**8/21/2024**	**1.2**	**Yes**	**425**	**n/a**	**n/a**	**52.71**	**n/a**	**n/a**	**0.00004917**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-38**	**0.16**	**n/a**	**8/23/2024**	**3.3**	**Yes**	**425**	**n/a**	**n/a**	**52.71**	**n/a**	**n/a**	**0.00004917**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-41**	**0.16**	**n/a**	**8/23/2024**	**3.2**	**Yes**	**425**	**n/a**	**n/a**	**52.71**	**n/a**	**n/a**	**0.00004917**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-42**	**0.16**	**n/a**	**8/22/2024**	**12.4**	**Yes**	**425**	**n/a**	**n/a**	**52.71**	**n/a**	**n/a**	**0.00004917**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-43**	**0.16**	**n/a**	**8/22/2024**	**3.5**	**Yes**	**425**	**n/a**	**n/a**	**52.71**	**n/a**	**n/a**	**0.00004917**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	YGWC-49	0.16	n/a	8/22/2024	0.035J	No	425	n/a	n/a	52.71	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-36A	0.16	n/a	8/22/2024	0.16	No	425	n/a	n/a	52.71	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-24SB	0.16	n/a	8/22/2024	0.04ND	No	425	n/a	n/a	52.71	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Calcium (mg/L)	YGWC-23S	37	n/a	8/21/2024	13	No	425	n/a	n/a	0.7059	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	**YGWC-38**	**37**	**n/a**	**8/23/2024**	**43.8**	**Yes**	**425**	**n/a**	**n/a**	**0.7059**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	YGWC-41	37	n/a	8/23/2024	13.6	No	425	n/a	n/a	0.7059	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	**YGWC-42**	**37**	**n/a**	**8/22/2024**	**64.4**	**Yes**	**425**	**n/a**	**n/a**	**0.7059**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	YGWC-43	37	n/a	8/22/2024	14.8	No	425	n/a	n/a	0.7059	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-49	37	n/a	8/22/2024	10.8	No	425	n/a	n/a	0.7059	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	**YGWC-36A**	**37**	**n/a**	**8/22/2024**	**41.1**	**Yes**	**425**	**n/a**	**n/a**	**0.7059**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	YGWC-24SB	37	n/a	8/22/2024	2.3	No	425	n/a	n/a	0.7059	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-23S	12.7	n/a	8/21/2024	2.6	No	425	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-38	12.7	n/a	8/23/2024	4	No	425	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-41	12.7	n/a	8/23/2024	3.9	No	425	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-42	12.7	n/a	8/22/2024	3.1	No	425	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-43	12.7	n/a	8/22/2024	2.7	No	425	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-49	12.7	n/a	8/22/2024	4.1	No	425	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-36A	12.7	n/a	8/22/2024	4.8	No	425	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-24SB	12.7	n/a	8/22/2024	8.6	No	425	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Fluoride (mg/L)	YGWC-23S	0.68	n/a	8/21/2024	0.1ND	No	494	n/a	n/a	62.96	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-38	0.68	n/a	8/23/2024	0.1ND	No	494	n/a	n/a	62.96	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-41	0.68	n/a	8/23/2024	0.1ND	No	494	n/a	n/a	62.96	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-42	0.68	n/a	8/22/2024	0.1ND	No	494	n/a	n/a	62.96	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-43	0.68	n/a	8/22/2024	0.05J	No	494	n/a	n/a	62.96	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-49	0.68	n/a	8/22/2024	0.1ND	No	494	n/a	n/a	62.96	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-36A	0.68	n/a	8/22/2024	0.1ND	No	494	n/a	n/a	62.96	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-24SB	0.68	n/a	8/22/2024	0.1ND	No	494	n/a	n/a	62.96	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
pH (S.U.)	YGWC-23S	8.39	4.4	8/21/2024	5.4	No	505	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-38	8.39	4.4	8/23/2024	5.11	No	505	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-41	8.39	4.4	8/23/2024	5.18	No	505	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-42	8.39	4.4	8/22/2024	5.52	No	505	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-43	8.39	4.4	8/22/2024	5.61	No	505	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-49	8.39	4.4	8/22/2024	5.72	No	505	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-36A	8.39	4.4	8/22/2024	4.82	No	505	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-24SB	8.39	4.4	8/22/2024	5.16	No	505	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-23S	160	n/a	8/21/2024	89.3	No	425	n/a	n/a	6.118	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**YGWC-38**	**160**	**n/a**	**8/23/2024**	**186**	**Yes**	**425**	**n/a**	**n/a**	**6.118**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	YGWC-41	160	n/a	8/23/2024	97.8	No	425	n/a	n/a	6.118	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**YGWC-42**	**160**	**n/a**	**8/22/2024**	**432**	**Yes**	**425**	**n/a**	**n/a**	**6.118**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**YGWC-43**	**160**	**n/a**	**8/22/2024**	**181**	**Yes**	**425**	**n/a**	**n/a**	**6.118**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	YGWC-49	160	n/a	8/22/2024	66.4	No	425	n/a	n/a	6.118	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**YGWC-36A**	**160**	**n/a**	**8/22/2024**	**191**	**Yes**	**425**	**n/a**	**n/a**	**6.118**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	YGWC-24SB	160	n/a	8/22/2024	0.5ND	No	425	n/a	n/a	6.118	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-23S	319	n/a	8/21/2024	193	No	424	n/a	n/a	0.4717	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	**YGWC-38**	**319**	**n/a**	**8/23/2024**	**418**	**Yes**	**424**	**n/a**	**n/a**	**0.4717**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids (mg/L)	YGWC-41	319	n/a	8/23/2024	225	No	424	n/a	n/a	0.4717	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	**YGWC-42**	**319**	**n/a**	**8/22/2024**	**830**	**Yes**	**424**	**n/a**	**n/a**	**0.4717**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids (mg/L)	**YGWC-43**	**319**	**n/a**	**8/22/2024**	**412**	**Yes**	**424**	**n/a**	**n/a**	**0.4717**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids (mg/L)	YGWC-49	319	n/a	8/22/2024	159	No	424	n/a	n/a	0.4717	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	**YGWC-36A**	**319**	**n/a**	**8/22/2024**	**783**	**Yes**	**424**	**n/a**	**n/a**	**0.4717**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids (mg/L)	YGWC-24SB	319	n/a	8/22/2024	82	No	424	n/a	n/a	0.4717	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2

Appendix III Trend Tests - Significant Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 10/17/2024, 10:08 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	YGWA-39 (bg)	0.01793	115	81	Yes	20	5	n/a	0.01	NP
Boron (mg/L)	YGWA-40 (bg)	-0.01202	-131	-81	Yes	20	0	n/a	0.01	NP
Boron (mg/L)	YGWA-5D (bg)	0.0007069	99	98	Yes	23	26.09	n/a	0.01	NP
Boron (mg/L)	YGWC-38	-2.993	-167	-81	Yes	20	0	n/a	0.01	NP
Boron (mg/L)	YGWC-41	-1.765	-142	-81	Yes	20	0	n/a	0.01	NP
Boron (mg/L)	YGWC-42	-1.319	-124	-81	Yes	20	0	n/a	0.01	NP
Boron (mg/L)	YGWC-43	0.3505	117	81	Yes	20	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-17S (bg)	0.1465	186	98	Yes	23	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-18S (bg)	-0.06725	-171	-98	Yes	23	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-39 (bg)	2.49	121	81	Yes	20	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-5D (bg)	-1.034	-107	-98	Yes	23	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-5I (bg)	0.06991	145	98	Yes	23	0	n/a	0.01	NP
Calcium (mg/L)	YGWC-38	-24.77	-176	-81	Yes	20	0	n/a	0.01	NP
Calcium (mg/L)	YGWC-42	-9.931	-146	-81	Yes	20	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-47 (bg)	-0.8737	-132	-81	Yes	20	5	n/a	0.01	NP
Calcium (mg/L)	GWA-2 (bg)	2.258	92	81	Yes	20	5	n/a	0.01	NP
Calcium (mg/L)	YGWA-1D (bg)	0.5198	135	98	Yes	23	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-1I (bg)	-0.07033	-126	-98	Yes	23	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-3I (bg)	0.478	103	98	Yes	23	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18I (bg)	-0.09033	-116	-98	Yes	23	21.74	n/a	0.01	NP
Sulfate (mg/L)	YGWA-39 (bg)	-2.451	-142	-81	Yes	20	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-40 (bg)	-5.801	-141	-81	Yes	20	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5D (bg)	-2.152	-197	-98	Yes	23	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5I (bg)	0.0842	177	98	Yes	23	0	n/a	0.01	NP
Sulfate (mg/L)	YGWC-38	-123.3	-179	-81	Yes	20	0	n/a	0.01	NP
Sulfate (mg/L)	YGWC-42	-86.93	-151	-81	Yes	20	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-47 (bg)	-10.68	-149	-81	Yes	20	0	n/a	0.01	NP
Sulfate (mg/L)	GWA-2 (bg)	9.755	89	81	Yes	20	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-1D (bg)	0.8848	191	98	Yes	23	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-2I (bg)	1.44	132	98	Yes	23	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3D (bg)	0.2355	132	98	Yes	23	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3I (bg)	0.8717	133	98	Yes	23	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-21I (bg)	9.422	118	98	Yes	23	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-39 (bg)	25.35	110	81	Yes	20	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-38	-163.4	-152	-81	Yes	20	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-42	-110	-142	-81	Yes	20	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-43	31.41	94	81	Yes	20	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-47 (bg)	-9.336	-108	-81	Yes	20	0	n/a	0.01	NP

Appendix III Trend Tests - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 10/17/2024, 10:08 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	YGWA-17S (bg)	0.0006852	91	98	No	23	21.74	n/a	0.01	NP
Boron (mg/L)	YGWA-18I (bg)	0	-6	-98	No	23	82.61	n/a	0.01	NP
Boron (mg/L)	YGWA-18S (bg)	0.001019	79	98	No	23	30.43	n/a	0.01	NP
Boron (mg/L)	YGWA-20S (bg)	0	-1	-98	No	23	91.3	n/a	0.01	NP
Boron (mg/L)	YGWA-21I (bg)	0	-14	-98	No	23	60.87	n/a	0.01	NP
Boron (mg/L)	**YGWA-39 (bg)**	**0.01793**	**115**	**81**	**Yes**	**20**	**5**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWA-40 (bg)**	**-0.01202**	**-131**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWA-4I (bg)	0	25	98	No	23	73.91	n/a	0.01	NP
Boron (mg/L)	**YGWA-5D (bg)**	**0.0007069**	**99**	**98**	**Yes**	**23**	**26.09**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWA-5I (bg)	0	3	98	No	23	69.57	n/a	0.01	NP
Boron (mg/L)	YGWC-23S	0.01363	24	98	No	23	0	n/a	0.01	NP
Boron (mg/L)	**YGWC-38**	**-2.993**	**-167**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWC-41**	**-1.765**	**-142**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWC-42**	**-1.319**	**-124**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWC-43**	**0.3505**	**117**	**81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWA-47 (bg)	-0.0002753	-20	-81	No	20	10	n/a	0.01	NP
Boron (mg/L)	GWA-2 (bg)	0	26	81	No	20	65	n/a	0.01	NP
Boron (mg/L)	YGWA-14S (bg)	-0.0003528	-52	-98	No	23	8.696	n/a	0.01	NP
Boron (mg/L)	YGWA-1D (bg)	0.001231	72	98	No	23	43.48	n/a	0.01	NP
Boron (mg/L)	YGWA-1I (bg)	0	-15	-98	No	23	69.57	n/a	0.01	NP
Boron (mg/L)	YGWA-2I (bg)	0	10	98	No	23	82.61	n/a	0.01	NP
Boron (mg/L)	YGWA-30I (bg)	0	-7	-98	No	23	86.96	n/a	0.01	NP
Boron (mg/L)	YGWA-3D (bg)	0	32	98	No	23	65.22	n/a	0.01	NP
Boron (mg/L)	YGWA-3I (bg)	0	-9	-98	No	23	91.3	n/a	0.01	NP
Calcium (mg/L)	**YGWA-17S (bg)**	**0.1465**	**186**	**98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-18I (bg)	0.07089	76	98	No	23	0	n/a	0.01	NP
Calcium (mg/L)	**YGWA-18S (bg)**	**-0.06725**	**-171**	**-98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-20S (bg)	0.0333	76	98	No	23	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-21I (bg)	0.4708	89	98	No	23	0	n/a	0.01	NP
Calcium (mg/L)	**YGWA-39 (bg)**	**2.49**	**121**	**81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-40 (bg)	-0.194	-49	-81	No	20	5	n/a	0.01	NP
Calcium (mg/L)	YGWA-4I (bg)	0.07686	35	98	No	23	0	n/a	0.01	NP
Calcium (mg/L)	**YGWA-5D (bg)**	**-1.034**	**-107**	**-98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-5I (bg)**	**0.06991**	**145**	**98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWC-38**	**-24.77**	**-176**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWC-42**	**-9.931**	**-146**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-47 (bg)**	**-0.8737**	**-132**	**-81**	**Yes**	**20**	**5**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GWA-2 (bg)**	**2.258**	**92**	**81**	**Yes**	**20**	**5**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-14S (bg)	0.0116	52	98	No	23	0	n/a	0.01	NP
Calcium (mg/L)	**YGWA-1D (bg)**	**0.5198**	**135**	**98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-1I (bg)**	**-0.07033**	**-126**	**-98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-2I (bg)	0.2349	40	98	No	23	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-30I (bg)	0.02573	95	98	No	23	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-3D (bg)	0.2967	79	98	No	23	0	n/a	0.01	NP
Calcium (mg/L)	**YGWA-3I (bg)**	**0.478**	**103**	**98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWC-36A	0.3248	18	98	No	23	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-17S (bg)	-0.02522	-31	-98	No	23	0	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-18I (bg)**	**-0.09033**	**-116**	**-98**	**Yes**	**23**	**21.74**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-18S (bg)	-0.1025	-92	-98	No	23	8.696	n/a	0.01	NP
Sulfate (mg/L)	YGWA-20S (bg)	0	66	98	No	23	73.91	n/a	0.01	NP
Sulfate (mg/L)	YGWA-21I (bg)	-0.1633	-78	-98	No	23	0	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-39 (bg)**	**-2.451**	**-142**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-40 (bg)**	**-5.801**	**-141**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-4I (bg)	0.04104	35	98	No	23	0	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-5D (bg)**	**-2.152**	**-197**	**-98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**

Appendix III Trend Tests - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 10/17/2024, 10:08 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Sulfate (mg/L)	**YGWA-5I (bg)**	**0.0842**	**177**	**98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWC-38**	**-123.3**	**-179**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWC-42**	**-86.93**	**-151**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWC-43	8.879	48	81	No	20	0	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-47 (bg)**	**-10.68**	**-149**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GWA-2 (bg)**	**9.755**	**89**	**81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-14S (bg)	0	4	98	No	23	0	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-1D (bg)**	**0.8848**	**191**	**98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-1I (bg)	-0.0608	-23	-98	No	23	0	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-2I (bg)**	**1.44**	**132**	**98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-30I (bg)	-0.05021	-71	-98	No	23	8.696	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-3D (bg)**	**0.2355**	**132**	**98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-3I (bg)**	**0.8717**	**133**	**98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWC-36A	-7.3	-36	-98	No	23	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-17S (bg)	1.977	61	98	No	23	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-18I (bg)	0	0	98	No	23	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-18S (bg)	1.351	37	98	No	23	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-20S (bg)	3.147	79	98	No	23	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**YGWA-21I (bg)**	**9.422**	**118**	**98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**YGWA-39 (bg)**	**25.35**	**110**	**81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	YGWA-40 (bg)	-4.535	-52	-81	No	20	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-4I (bg)	2.511	47	98	No	23	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-5D (bg)	-6.667	-55	-92	No	22	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-5I (bg)	0.3453	16	98	No	23	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**YGWC-38**	**-163.4**	**-152**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**YGWC-42**	**-110**	**-142**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**YGWC-43**	**31.41**	**94**	**81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**YGWA-47 (bg)**	**-9.336**	**-108**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	GWA-2 (bg)	12.15	73	81	No	20	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-14S (bg)	1.387	58	98	No	23	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-1D (bg)	3.259	87	98	No	23	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-1I (bg)	0.5267	11	98	No	23	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-2I (bg)	0.4303	17	98	No	23	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-30I (bg)	1.995	62	98	No	23	8.696	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-3D (bg)	3.614	60	98	No	23	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-3I (bg)	3.381	54	98	No	23	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-36A	-25.82	-77	-98	No	23	0	n/a	0.01	NP

Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 10/17/2024, 10:14 AM

Constituent	Upper Lim.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.0047	447	n/a	n/a	88.14	n/a	n/a	NaN	NP Inter(NDs)
Arsenic (mg/L)	0.005	495	n/a	n/a	75.35	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	0.21	495	n/a	n/a	2.222	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	0.0011	479	n/a	n/a	80.17	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	0.00063	479	n/a	n/a	94.99	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	0.0093	447	n/a	n/a	82.33	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	0.035	489	n/a	n/a	68.92	n/a	n/a	NaN	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	6.92	474	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Fluoride (mg/L)	0.68	494	n/a	n/a	62.96	n/a	n/a	NaN	NP Inter(NDs)
Lead (mg/L)	0.0013	449	n/a	n/a	87.75	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	0.03	474	n/a	n/a	27.43	n/a	n/a	NaN	NP Inter(normality)
Mercury (mg/L)	0.00064	403	n/a	n/a	89.58	n/a	n/a	NaN	NP Inter(NDs)
Molybdenum (mg/L)	0.03	438	n/a	n/a	61.19	n/a	n/a	NaN	NP Inter(NDs)
Selenium (mg/L)	0.005	477	n/a	n/a	92.87	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	0.001	413	n/a	n/a	97.58	n/a	n/a	NaN	NP Inter(NDs)

YATES AMA-R6 GWPS				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.0047	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.21	2
Beryllium, Total (mg/L)	0.004		0.0011	0.004
Cadmium, Total (mg/L)	0.005		0.00063	0.005
Chromium, Total (mg/L)	0.1		0.0093	0.1
Cobalt, Total (mg/L)		0.006	0.035	0.035
Combined Radium, Total (pCi/L)	5		6.92	6.92
Fluoride, Total (mg/L)	4		0.68	4
Lead, Total (mg/L)		0.015	0.0013	0.015
Lithium, Total (mg/L)		0.04	0.03	0.04
Mercury, Total (mg/L)	0.002		0.00064	0.002
Molybdenum, Total (mg/L)		0.1	0.03	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 Trend Tests - Lithium & Selenium - All/Significant Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 10/28/2024, 8:46 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Lithium (mg/L)	**YGWC-42**	**0.003986**	**129**	**66**	**Yes**	**21**	**0**	**n/a**	**0.05**	**NP**
Selenium (mg/L)	**YGWC-38**	**-0.03662**	**-195**	**-66**	**Yes**	**21**	**0**	**n/a**	**0.05**	**NP**

Confidence Interval Summary Table - Significant Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 11/8/2024, 2:41 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	**YGWC-42**	**0.05633**	**0.04817**	**0.04**	**Yes**	**8**	**0.05225**	**0.003845**	**0**	**None**	**No**	**0.01**	**Param.**
Selenium (mg/L)	**PZ-37**	**0.2637**	**0.1832**	**0.05**	**Yes**	**18**	**0.2234**	**0.06648**	**0**	**None**	**No**	**0.01**	**Param.**

Confidence Interval Summary Table - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 11/8/2024, 2:41 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	PZ-35	0.003	0.00039	0.006	No	12	0.002783	0.0007534	91.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-37	0.0085	0.0014	0.006	No	18	0.002953	0.001612	77.78	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-37D	0.003	0.0013	0.006	No	7	0.002543	0.0007829	71.43	None	No	0.008	NP (NDs)
Antimony (mg/L)	PZ-52D	0.003	0.00081	0.006	No	6	0.002635	0.0008941	83.33	None	No	0.0155	NP (NDs)
Antimony (mg/L)	YAMW-1	0.025	0.0016	0.006	No	12	0.004389	0.006541	58.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	YAMW-4	0.003	0.00065	0.006	No	10	0.002167	0.001093	60	None	No	0.011	NP (NDs)
Antimony (mg/L)	YAMW-5	0.003	0.003	0.006	No	10	0.002733	0.0008443	90	None	No	0.011	NP (NDs)
Antimony (mg/L)	YGWC-23S	0.003	0.00085	0.006	No	23	0.002576	0.0009494	82.61	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-24SB	0.003	0.0009	0.006	No	22	0.002905	0.0004477	95.45	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-36A	0.0041	0.0015	0.006	No	23	0.003704	0.005442	52.17	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-38	0.003	0.0015	0.006	No	20	0.002553	0.0009406	80	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-41	0.003	0.0014	0.006	No	20	0.00292	0.0003578	95	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-42	0.003	0.00053	0.006	No	20	0.002877	0.0005523	95	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-43	0.003	0.0026	0.006	No	20	0.002846	0.0006034	90	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-49	0.003	0.0011	0.006	No	20	0.002782	0.0006789	90	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-35	0.005	0.00096	0.01	No	13	0.003665	0.001821	61.54	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-37	0.005	0.0011	0.01	No	18	0.002869	0.00187	38.89	None	No	0.01	NP (normality)
Arsenic (mg/L)	PZ-37D	0.005	0.0014	0.01	No	7	0.004314	0.001361	71.43	None	No	0.008	NP (NDs)
Arsenic (mg/L)	PZ-51	0.005	0.0013	0.01	No	6	0.003833	0.001812	66.67	None	No	0.0155	NP (NDs)
Arsenic (mg/L)	PZ-52D	0.00467	0.0004411	0.01	No	6	0.003567	0.001888	33.33	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	YAMW-1	0.005	0.0023	0.01	No	13	0.004356	0.001324	76.92	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YAMW-3	0.005	0.0015	0.01	No	6	0.00375	0.001559	50	None	No	0.0155	NP (normality)
Arsenic (mg/L)	YAMW-4	0.005	0.001	0.01	No	10	0.003149	0.001816	40	None	No	0.011	NP (normality)
Arsenic (mg/L)	YAMW-5	0.002859	0.001178	0.01	No	10	0.003225	0.001726	40	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	YGWC-23S	0.005	0.0025	0.01	No	25	0.004748	0.0008922	92	Kaplan-Meier	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-24SB	0.005	0.0035	0.01	No	24	0.004683	0.0009054	87.5	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-36A	0.005	0.0047	0.01	No	25	0.004154	0.001704	76	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-38	0.005	0.0008	0.01	No	21	0.00245	0.001896	33.33	None	No	0.01	NP (normality)
Arsenic (mg/L)	YGWC-41	0.005	0.001	0.01	No	21	0.003339	0.002026	57.14	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-42	0.002209	0.001435	0.01	No	21	0.002522	0.00137	19.05	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	YGWC-43	0.005	0.0022	0.01	No	21	0.003983	0.001734	71.43	Kaplan-Meier	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-49	0.005	0.001	0.01	No	20	0.004373	0.001533	85	Kaplan-Meier	No	0.01	NP (NDs)
Barium (mg/L)	PZ-35	0.1262	0.04373	2	No	13	0.08854	0.06072	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	PZ-37	0.04879	0.03089	2	No	18	0.03984	0.0148	0	None	No	0.01	Param.
Barium (mg/L)	PZ-37D	0.02958	0.0127	2	No	7	0.02114	0.007105	0	None	No	0.01	Param.
Barium (mg/L)	PZ-51	0.01654	0.01279	2	No	6	0.01467	0.001366	0	None	No	0.01	Param.
Barium (mg/L)	PZ-52D	0.02587	0.005707	2	No	6	0.0145	0.008919	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	YAMW-1	0.087	0.035	2	No	13	0.06338	0.02386	0	None	No	0.01	NP (normality)
Barium (mg/L)	YAMW-2	0.009055	0.007145	2	No	10	0.0081	0.001071	0	None	No	0.01	Param.
Barium (mg/L)	YAMW-3	0.04337	0.02197	2	No	6	0.03267	0.007789	0	None	No	0.01	Param.
Barium (mg/L)	YAMW-4	0.02	0.003	2	No	10	0.00695	0.007215	0	None	No	0.011	NP (normality)
Barium (mg/L)	YAMW-5	0.042	0.034	2	No	10	0.0387	0.006929	0	None	No	0.011	NP (normality)
Barium (mg/L)	YGWC-23S	0.04922	0.03742	2	No	25	0.04168	0.01346	0	None	x^2	0.01	Param.
Barium (mg/L)	YGWC-24SB	0.025	0.019	2	No	24	0.02223	0.00447	0	None	No	0.01	NP (normality)
Barium (mg/L)	YGWC-36A	0.05919	0.0349	2	No	25	0.05322	0.03768	0	None	ln(x)	0.01	Param.
Barium (mg/L)	YGWC-38	0.02154	0.01689	2	No	21	0.01921	0.00422	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-41	0.02696	0.0201	2	No	21	0.02353	0.006216	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-42	0.0404	0.02785	2	No	21	0.03412	0.01138	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-43	0.03305	0.02075	2	No	21	0.0269	0.01115	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-49	0.07528	0.06443	2	No	20	0.06986	0.009561	0	None	No	0.01	Param.
Beryllium (mg/L)	PZ-35	0.0007998	0.0003219	0.004	No	14	0.0005836	0.0003793	14.29	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	PZ-37	0.0011	0.00025	0.004	No	18	0.0005822	0.000401	11.11	None	No	0.01	NP (normality)
Beryllium (mg/L)	PZ-51	0.003399	0.002501	0.004	No	6	0.00295	0.0003271	0	None	No	0.01	Param.
Beryllium (mg/L)	PZ-52D	0.0005	0.000059	0.004	No	6	0.0003575	0.0002209	66.67	None	No	0.0155	NP (NDs)
Beryllium (mg/L)	YAMW-1	0.000202	0.00008345	0.004	No	13	0.0002645	0.0001831	30.77	Kaplan-Meier	ln(x)	0.01	Param.

Confidence Interval Summary Table - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 11/8/2024, 2:41 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	YAMW-2	0.0005	0.000055	0.004	No	10	0.0002371	0.0002264	40	None	No	0.011	NP (normality)
Beryllium (mg/L)	YAMW-3	0.0001907	0.00005268	0.004	No	6	0.0001217	0.00005022	0	None	No	0.01	Param.
Beryllium (mg/L)	YAMW-5	0.0001442	0.0001078	0.004	No	11	0.000126	0.00002182	0	None	No	0.01	Param.
Beryllium (mg/L)	YGWC-23S	0.00022	0.00009	0.004	No	25	0.0002082	0.0001568	20	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-24SB	0.0001568	0.0001056	0.004	No	24	0.0001346	0.00005306	12.5	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	YGWC-36A	0.0004709	0.0002147	0.004	No	25	0.0004524	0.0004977	4	None	ln(x)	0.01	Param.
Beryllium (mg/L)	YGWC-38	0.004728	0.003015	0.004	No	21	0.003871	0.001553	0	None	No	0.01	Param.
Beryllium (mg/L)	YGWC-41	0.0037	0.0013	0.004	No	21	0.002433	0.00108	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-42	0.0005	0.000067	0.004	No	21	0.0003373	0.0002127	61.9	None	No	0.01	NP (NDs)
Beryllium (mg/L)	YGWC-43	0.000396	0.0002574	0.004	No	21	0.0003952	0.0001268	28.57	Kaplan-Meier	No	0.01	Param.
Beryllium (mg/L)	YGWC-49	0.00013	0.0001	0.004	No	20	0.0001225	0.00003582	5	None	No	0.01	NP (normality)
Cadmium (mg/L)	PZ-35	0.0005	0.00016	0.005	No	13	0.0003615	0.0001602	53.85	None	No	0.01	NP (NDs)
Cadmium (mg/L)	PZ-37	0.0007873	0.0004627	0.005	No	18	0.000625	0.0002682	11.11	None	No	0.01	Param.
Cadmium (mg/L)	PZ-51	0.0019	0.0017	0.005	No	6	0.00175	0.00008367	0	None	No	0.0155	NP (normality)
Cadmium (mg/L)	YAMW-1	0.0005	0.00014	0.005	No	13	0.0002785	0.0001567	30.77	None	No	0.01	NP (normality)
Cadmium (mg/L)	YAMW-2	0.0005	0.0005	0.005	No	10	0.000465	0.0001107	90	None	No	0.011	NP (NDs)
Cadmium (mg/L)	YAMW-3	0.0005	0.00025	0.005	No	6	0.00043	0.0001058	50	None	No	0.0155	NP (normality)
Cadmium (mg/L)	YAMW-5	0.00025	0.00018	0.005	No	10	0.00024	0.00008028	0	None	No	0.011	NP (normality)
Cadmium (mg/L)	YGWC-23S	0.0005	0.00007	0.005	No	25	0.0004828	0.000086	96	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-36A	0.0005	0.00014	0.005	No	10	0.000426	0.0001561	80	None	No	0.011	NP (NDs)
Cadmium (mg/L)	YGWC-38	0.002338	0.00136	0.005	No	21	0.001849	0.0008857	0	None	No	0.01	Param.
Cadmium (mg/L)	YGWC-41	0.0005	0.00018	0.005	No	21	0.000341	0.0001598	47.62	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-42	0.0005	0.0002	0.005	No	21	0.0004005	0.0001576	57.14	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-49	0.0005	0.00007	0.005	No	20	0.0004785	0.00009615	95	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-35	0.005	0.00061	0.1	No	11	0.003155	0.002138	54.55	None	No	0.006	NP (NDs)
Chromium (mg/L)	PZ-37	0.005	0.0019	0.1	No	18	0.004422	0.001339	83.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-52D	0.005	0.0011	0.1	No	6	0.00435	0.001592	83.33	None	No	0.0155	NP (NDs)
Chromium (mg/L)	YAMW-1	0.005	0.00074	0.1	No	11	0.003125	0.002161	54.55	None	No	0.006	NP (NDs)
Chromium (mg/L)	YAMW-2	0.005	0.0011	0.1	No	10	0.003601	0.0019	60	None	No	0.011	NP (NDs)
Chromium (mg/L)	YAMW-3	0.005	0.0011	0.1	No	6	0.00435	0.001592	83.33	None	No	0.0155	NP (NDs)
Chromium (mg/L)	YAMW-4	0.005	0.005	0.1	No	10	0.004557	0.001401	90	None	No	0.011	NP (NDs)
Chromium (mg/L)	YAMW-5	0.005	0.005	0.1	No	10	0.00466	0.001075	90	None	No	0.011	NP (NDs)
Chromium (mg/L)	YGWC-23S	0.005	0.0011	0.1	No	21	0.003692	0.00191	66.67	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-24SB	0.005	0.0011	0.1	No	20	0.004407	0.001449	85	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-36A	0.005	0.0035	0.1	No	21	0.004356	0.001447	80.95	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-38	0.005	0.00065	0.1	No	21	0.004579	0.001331	90.48	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-41	0.005	0.00039	0.1	No	21	0.00478	0.001006	95.24	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-42	0.005	0.0013	0.1	No	21	0.004397	0.001521	85.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-43	0.005	0.00074	0.1	No	21	0.00417	0.001754	80.95	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-49	0.002	0.0016	0.1	No	19	0.001968	0.0007732	5.263	None	No	0.01	NP (normality)
Cobalt (mg/L)	PZ-35	0.0059	0.005	0.035	No	13	0.005069	0.0002496	92.31	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-37	0.008469	0.003331	0.035	No	18	0.006556	0.004861	0	None	x^(1/3)	0.01	Param.
Cobalt (mg/L)	PZ-51	0.033	0.0048	0.035	No	6	0.01227	0.01132	0	None	No	0.0155	NP (normality)
Cobalt (mg/L)	PZ-52D	0.003352	0.001214	0.035	No	6	0.002283	0.0007782	0	None	No	0.01	Param.
Cobalt (mg/L)	YAMW-1	0.01703	0.003957	0.035	No	14	0.01146	0.01044	14.29	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	YAMW-2	0.003901	0.0006296	0.035	No	10	0.002311	0.002153	10	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	YAMW-3	0.1561	0.01389	0.035	No	6	0.085	0.05176	0	None	No	0.01	Param.
Cobalt (mg/L)	YAMW-4	0.005	0.00044	0.035	No	10	0.001933	0.002124	30	None	No	0.011	NP (normality)
Cobalt (mg/L)	YAMW-5	0.005	0.005	0.035	No	10	0.004577	0.001338	90	None	No	0.011	NP (NDs)
Cobalt (mg/L)	YGWC-36A	0.005	0.00086	0.035	No	25	0.004108	0.001823	80	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-41	0.005	0.0011	0.035	No	21	0.004161	0.001778	80.95	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-42	0.002133	0.001686	0.035	No	21	0.00191	0.0004049	4.762	None	No	0.01	Param.
Cobalt (mg/L)	YGWC-43	0.005	0.0005	0.035	No	21	0.00254	0.001946	33.33	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-49	0.005	0.0008	0.035	No	20	0.004125	0.001796	80	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	PZ-35	0.9036	0.4111	6.92	No	12	0.6573	0.3138	0	None	No	0.01	Param.

Confidence Interval Summary Table - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 11/8/2024, 2:41 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	PZ-37	1.801	1.101	6.92	No	18	1.451	0.5782	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-37D	3.264	1.286	6.92	No	7	2.275	0.8329	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-51	0.966	0.389	6.92	No	6	0.7673	0.2654	0	None	No	0.0155	NP (selected)
Combined Radium 226 + 228 (pCi/L)	PZ-52D	1.637	0.1494	6.92	No	7	0.893	0.626	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YAMW-1	0.6404	0.3668	6.92	No	12	0.5036	0.1744	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YAMW-2	0.7371	0.1768	6.92	No	10	0.457	0.314	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YAMW-3	2.628	0.673	6.92	No	6	1.561	0.7594	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YAMW-4	0.8689	0.2156	6.92	No	10	0.5422	0.3661	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YAMW-5	1.144	0.6107	6.92	No	10	0.8775	0.299	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-23S	0.7441	0.3847	6.92	No	25	0.5644	0.3605	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-24SB	0.7323	0.4451	6.92	No	24	0.5887	0.2814	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-36A	0.9392	0.5082	6.92	No	25	0.7237	0.4323	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-38	1.069	0.5328	6.92	No	21	0.801	0.4861	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-41	1.213	0.6286	6.92	No	21	0.9208	0.5298	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-42	2.295	0.9906	6.92	No	21	1.643	1.182	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-43	4.026	2.089	6.92	No	21	3.058	1.755	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-49	1.007	0.548	6.92	No	20	0.7776	0.4044	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-37	0.23	0.1	4	No	18	0.1472	0.09969	77.78	None	No	0.01	NP (NDs)
Fluoride (mg/L)	PZ-37D	0.3007	0.1451	4	No	7	0.2229	0.0655	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-51	0.165	0.09066	4	No	6	0.1278	0.02706	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-52D	0.1075	0.04669	4	No	6	0.082	0.02427	16.67	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	YAMW-2	0.1	0.061	4	No	10	0.0874	0.02055	70	None	No	0.011	NP (NDs)
Fluoride (mg/L)	YAMW-3	0.08958	0.06722	4	No	6	0.082	0.012	16.67	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	YAMW-4	0.09815	0.0599	4	No	10	0.0969	0.02665	40	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	YAMW-5	0.1	0.05	4	No	10	0.0855	0.02339	70	Kaplan-Meier	No	0.011	NP (NDs)
Fluoride (mg/L)	YGWC-23S	0.1	0.057	4	No	26	0.09446	0.01892	84.62	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-24SB	0.1	0.098	4	No	25	0.09528	0.01625	88	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-36A	0.1	0.094	4	No	26	0.09446	0.02819	73.08	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-38	0.2	0.1	4	No	22	0.142	0.1005	72.73	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-41	0.11	0.1	4	No	22	0.1005	0.002132	90.91	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-42	0.1	0.08	4	No	22	0.08745	0.02343	72.73	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-43	0.09935	0.0592	4	No	22	0.09882	0.04742	18.18	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	YGWC-49	0.14	0.09	4	No	21	0.09952	0.02179	71.43	Kaplan-Meier	No	0.01	NP (NDs)
Lead (mg/L)	PZ-35	0.0014	0.00015	0.015	No	12	0.0008864	0.0003767	75	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-37	0.001	0.0002	0.015	No	18	0.0007152	0.0004158	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-51	0.001	0.00019	0.015	No	6	0.000865	0.0003307	83.33	Kaplan-Meier	No	0.0155	NP (NDs)
Lead (mg/L)	PZ-52D	0.0031	0.001	0.015	No	6	0.001417	0.00084	66.67	Kaplan-Meier	No	0.0155	NP (NDs)
Lead (mg/L)	YAMW-1	0.001	0.00019	0.015	No	12	0.0009325	0.0002338	91.67	None	No	0.01	NP (NDs)
Lead (mg/L)	YAMW-2	0.001	0.00011	0.015	No	10	0.000819	0.0003816	80	None	No	0.011	NP (NDs)
Lead (mg/L)	YAMW-4	0.001	0.00028	0.015	No	10	0.0007916	0.0003516	70	None	No	0.011	NP (NDs)
Lead (mg/L)	YAMW-5	0.001	0.000073	0.015	No	10	0.0007224	0.0004473	70	None	No	0.011	NP (NDs)
Lead (mg/L)	YGWC-23S	0.001	0.00044	0.015	No	23	0.000862	0.0003138	82.61	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-24SB	0.001	0.00036	0.015	No	22	0.0008956	0.0002735	86.36	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-36A	0.0004375	0.0001776	0.015	No	23	0.0006491	0.0004229	39.13	Kaplan-Meier	sqrt(x)	0.01	Param.
Lead (mg/L)	YGWC-38	0.001	0.0001	0.015	No	21	0.0008714	0.0003227	85.71	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-41	0.0011	0.0002	0.015	No	21	0.000836	0.0003602	76.19	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-42	0.001	0.0002	0.015	No	21	0.0008281	0.0003641	80.95	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-43	0.001	0.00008	0.015	No	21	0.0009121	0.0002775	90.48	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-49	0.001	0.000059	0.015	No	20	0.000953	0.0002104	95	None	No	0.01	NP (NDs)
Lithium (mg/L)	PZ-35	0.011	0.0011	0.04	No	13	0.003731	0.004251	7.692	None	No	0.01	NP (normality)
Lithium (mg/L)	PZ-37	0.02719	0.01964	0.04	No	18	0.02287	0.006465	5.556	None	x^2	0.01	Param.
Lithium (mg/L)	PZ-37D	0.01171	0.005485	0.04	No	7	0.0086	0.002622	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-51	0.005819	0.004414	0.04	No	6	0.005117	0.0005115	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-52D	0.03192	0.01741	0.04	No	6	0.02467	0.005279	0	None	No	0.01	Param.
Lithium (mg/L)	YAMW-1	0.01928	0.01015	0.04	No	13	0.01472	0.006139	7.692	None	No	0.01	Param.

Confidence Interval Summary Table - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 11/8/2024, 2:41 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	YAMW-3	0.05164	0.03979	0.04	No	7	0.04571	0.00499	0	None	No	0.01	Param.
Lithium (mg/L)	YAMW-4	0.03548	0.02662	0.04	No	10	0.0306	0.006398	0	None	x^3	0.01	Param.
Lithium (mg/L)	YAMW-5	0.01536	0.01344	0.04	No	10	0.0144	0.001075	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-23S	0.0026	0.0019	0.04	No	25	0.002872	0.002583	4	None	No	0.01	NP (normality)
Lithium (mg/L)	YGWC-36A	0.002	0.00089	0.04	No	10	0.002628	0.004363	10	None	No	0.011	NP (normality)
Lithium (mg/L)	YGWC-38	0.008313	0.006783	0.04	No	21	0.007548	0.001387	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-41	0.0042	0.0021	0.04	No	21	0.003595	0.002776	4.762	None	No	0.01	NP (normality)
Lithium (mg/L)	**YGWC-42**	**0.05633**	**0.04817**	**0.04**	**Yes**	**8**	**0.05225**	**0.003845**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	YGWC-43	0.01744	0.01251	0.04	No	21	0.01498	0.004472	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-49	0.003734	0.003326	0.04	No	20	0.00353	0.00036	0	None	No	0.01	Param.
Mercury (mg/L)	PZ-37	0.0002	0.00019	0.002	No	18	0.0001917	0.00003294	88.89	None	No	0.01	NP (NDs)
Mercury (mg/L)	YAMW-1	0.0002	0.0002	0.002	No	10	0.000194	0.00001897	90	None	No	0.011	NP (NDs)
Mercury (mg/L)	YAMW-3	0.0002	0.00016	0.002	No	6	0.0001933	0.00001633	83.33	None	No	0.0155	NP (NDs)
Mercury (mg/L)	YGWC-23S	0.0002	0.00015	0.002	No	20	0.0001924	0.00002487	90	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-38	0.0002	0.00008	0.002	No	18	0.0001843	0.00004635	88.89	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-41	0.0002	0.00006	0.002	No	18	0.0001922	0.000033	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-42	0.0002	0.000048	0.002	No	18	0.0001916	0.00003583	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-43	0.0002	0.00009	0.002	No	18	0.0001857	0.00004222	88.89	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-49	0.0002	0.00014	0.002	No	17	0.0001883	0.00003587	88.24	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-35	0.01	0.01	0.1	No	11	0.009264	0.002442	90.91	None	No	0.006	NP (NDs)
Molybdenum (mg/L)	PZ-37	0.01	0.0016	0.1	No	18	0.006339	0.004221	55.56	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-37D	0.00676	0.001754	0.1	No	7	0.004257	0.002107	0	None	No	0.01	Param.
Molybdenum (mg/L)	PZ-52D	0.01031	0.0003593	0.1	No	6	0.005333	0.003621	0	None	No	0.01	Param.
Molybdenum (mg/L)	YAMW-1	0.01	0.0014	0.1	No	11	0.006545	0.004057	54.55	None	No	0.006	NP (NDs)
Molybdenum (mg/L)	YAMW-2	0.01	0.01	0.1	No	10	0.00917	0.002625	90	None	No	0.011	NP (NDs)
Molybdenum (mg/L)	YAMW-3	0.007998	0.003069	0.1	No	6	0.005533	0.001794	0	None	No	0.01	Param.
Molybdenum (mg/L)	YAMW-4	0.007782	0.0065	0.1	No	10	0.00711	0.0008685	0	None	x^3	0.01	Param.
Molybdenum (mg/L)	YGWC-23S	0.01	0.0016	0.1	No	21	0.0096	0.001833	95.24	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-36A	0.01	0.0038	0.1	No	21	0.008048	0.003336	71.43	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-41	0.01	0.0019	0.1	No	21	0.009614	0.001768	95.24	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-42	0.01	0.0008	0.1	No	21	0.003767	0.004089	28.57	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-43	0.01	0.0013	0.1	No	21	0.004548	0.004089	33.33	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-49	0.01	0.0007	0.1	No	19	0.009511	0.002134	94.74	None	No	0.01	NP (NDs)
Selenium (mg/L)	PZ-35	0.005	0.003	0.05	No	13	0.004092	0.001059	46.15	None	No	0.01	NP (normality)
Selenium (mg/L)	**PZ-37**	**0.2637**	**0.1832**	**0.05**	**Yes**	**18**	**0.2234**	**0.06648**	**0**	**None**	**No**	**0.01**	**Param.**
Selenium (mg/L)	PZ-51	0.02916	0.02184	0.05	No	6	0.0255	0.002665	0	None	No	0.01	Param.
Selenium (mg/L)	PZ-52D	0.0121	0.002304	0.05	No	6	0.0072	0.003564	0	None	No	0.01	Param.
Selenium (mg/L)	YAMW-1	0.005178	0.002822	0.05	No	13	0.004638	0.001458	38.46	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	YAMW-2	0.005	0.005	0.05	No	11	0.004655	0.001146	90.91	Kaplan-Meier	No	0.006	NP (NDs)
Selenium (mg/L)	YAMW-3	0.028	0.005	0.05	No	7	0.01121	0.009907	57.14	Kaplan-Meier	No	0.008	NP (NDs)
Selenium (mg/L)	YAMW-4	0.01805	0.005341	0.05	No	11	0.01398	0.006934	18.18	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	YAMW-5	0.05851	0.04496	0.05	No	11	0.05136	0.009615	0	None	x^2	0.01	Param.
Selenium (mg/L)	YGWC-23S	0.03777	0.02868	0.05	No	25	0.03323	0.009119	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-36A	0.005	0.0024	0.05	No	25	0.003604	0.0014	36	None	No	0.01	NP (normality)
Selenium (mg/L)	YGWC-38	0.06746	0.04679	0.05	No	8	0.05713	0.009746	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-41	0.05543	0.03436	0.05	No	21	0.0449	0.0191	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-42	0.05155	0.03808	0.05	No	21	0.04481	0.01221	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-49	0.008104	0.006386	0.05	No	20	0.007245	0.001513	5	None	No	0.01	Param.
Thallium (mg/L)	YGWC-49	0.001	0.00009	0.002	No	18	0.0009494	0.0002145	94.44	None	No	0.01	NP (NDs)

Appendix IV Trend Tests - Significant Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 10/17/2024, 10:41 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Lithium (mg/L)	**YGWA-18I (bg)**	**-0.000215**	**-154**	**-90**	**Yes**	**26**	**7.692**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**YGWA-39 (bg)**	**0.0009005**	**122**	**71**	**Yes**	**22**	**4.545**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**YGWC-42**	**0.003986**	**129**	**66**	**Yes**	**21**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**YGWA-47 (bg)**	**-0.000209**	**-119**	**-66**	**Yes**	**21**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**YGWA-1D (bg)**	**-0.0007084**	**-110**	**-90**	**Yes**	**26**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**YGWA-3D (bg)**	**0.0005738**	**158**	**90**	**Yes**	**26**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**YGWA-3I (bg)**	**0.001358**	**190**	**90**	**Yes**	**26**	**0**	**n/a**	**0.05**	**NP**
Selenium (mg/L)	**YGWA-17S (bg)**	**0**	**124**	**85**	**Yes**	**25**	**76**	**n/a**	**0.05**	**NP**
Selenium (mg/L)	**PZ-37**	**-0.02141**	**-77**	**-53**	**Yes**	**18**	**0**	**n/a**	**0.05**	**NP**

Appendix IV Trend Tests - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 10/17/2024, 10:41 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Lithium (mg/L)	YGWA-17S (bg)	0	9	85	No	25	92	n/a	0.05	NP
Lithium (mg/L)	**YGWA-18I (bg)**	**-0.000215**	**-154**	**-90**	**Yes**	**26**	**7.692**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	YGWA-18S (bg)	-0.0002098	-86	-90	No	26	3.846	n/a	0.05	NP
Lithium (mg/L)	YGWA-20S (bg)	0	-15	-90	No	26	96.15	n/a	0.05	NP
Lithium (mg/L)	YGWA-21I (bg)	0.00007505	58	90	No	26	3.846	n/a	0.05	NP
Lithium (mg/L)	**YGWA-39 (bg)**	**0.0009005**	**122**	**71**	**Yes**	**22**	**4.545**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	YGWA-40 (bg)	0	-27	-71	No	22	90.91	n/a	0.05	NP
Lithium (mg/L)	YGWA-4I (bg)	-0.0001739	-68	-90	No	26	0	n/a	0.05	NP
Lithium (mg/L)	YGWA-5D (bg)	0.00008841	57	90	No	26	0	n/a	0.05	NP
Lithium (mg/L)	YGWA-5I (bg)	0.00002315	52	90	No	26	11.54	n/a	0.05	NP
Lithium (mg/L)	**YGWC-42**	**0.003986**	**129**	**66**	**Yes**	**21**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**YGWA-47 (bg)**	**-0.000209**	**-119**	**-66**	**Yes**	**21**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	GWA-2 (bg)	-0.0001531	-31	-62	No	20	35	n/a	0.05	NP
Lithium (mg/L)	YGWA-14S (bg)	0	0	90	No	26	100	n/a	0.05	NP
Lithium (mg/L)	**YGWA-1D (bg)**	**-0.0007084**	**-110**	**-90**	**Yes**	**26**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	YGWA-1I (bg)	0	0	90	No	26	19.23	n/a	0.05	NP
Lithium (mg/L)	YGWA-2I (bg)	0.0001577	36	90	No	26	15.38	n/a	0.05	NP
Lithium (mg/L)	YGWA-30I (bg)	0	-62	-90	No	26	46.15	n/a	0.05	NP
Lithium (mg/L)	**YGWA-3D (bg)**	**0.0005738**	**158**	**90**	**Yes**	**26**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**YGWA-3I (bg)**	**0.001358**	**190**	**90**	**Yes**	**26**	**0**	**n/a**	**0.05**	**NP**
Selenium (mg/L)	**YGWA-17S (bg)**	**0**	**124**	**85**	**Yes**	**25**	**76**	**n/a**	**0.05**	**NP**
Selenium (mg/L)	YGWA-18I (bg)	0	0	90	No	26	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-18S (bg)	0	0	90	No	26	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-20S (bg)	0	0	90	No	26	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-21I (bg)	0	47	90	No	26	92.31	n/a	0.05	NP
Selenium (mg/L)	YGWA-39 (bg)	0	7	71	No	22	95.45	n/a	0.05	NP
Selenium (mg/L)	YGWA-40 (bg)	0	8	71	No	22	50	n/a	0.05	NP
Selenium (mg/L)	YGWA-4I (bg)	0	13	90	No	26	92.31	n/a	0.05	NP
Selenium (mg/L)	YGWA-5D (bg)	0	0	90	No	26	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-5I (bg)	0	23	90	No	26	96.15	n/a	0.05	NP
Selenium (mg/L)	YGWA-47 (bg)	0	27	49	No	17	88.24	n/a	0.05	NP
Selenium (mg/L)	GWA-2 (bg)	0	0	1.96	No	41	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-14S (bg)	0	-1	-81	No	24	62.5	n/a	0.05	NP
Selenium (mg/L)	YGWA-1D (bg)	0	0	81	No	24	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-1I (bg)	0	0	81	No	24	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-2I (bg)	0	0	81	No	24	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-30I (bg)	0	0	81	No	24	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-3D (bg)	0	0	81	No	24	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-3I (bg)	0	0	81	No	24	100	n/a	0.05	NP
Selenium (mg/L)	**PZ-37**	**-0.02141**	**-77**	**-53**	**Yes**	**18**	**0**	**n/a**	**0.05**	**NP**

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FIGURE A.

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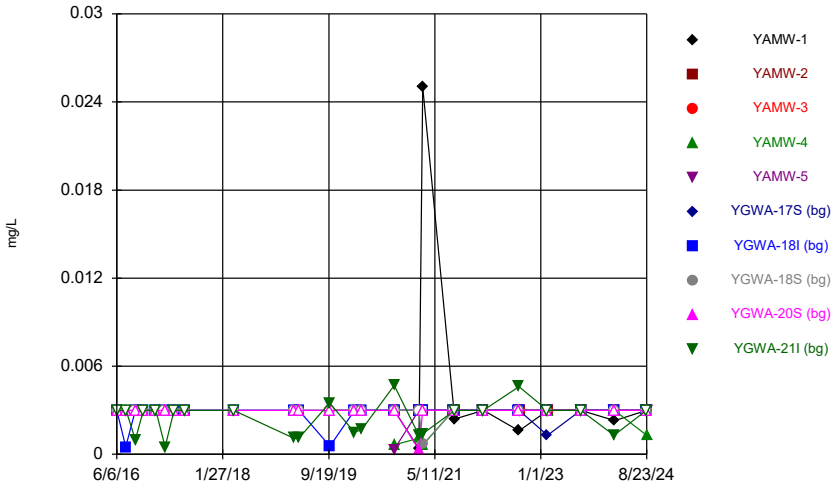

Constituent: Antimony Analysis Run 1/2/2025 11:58 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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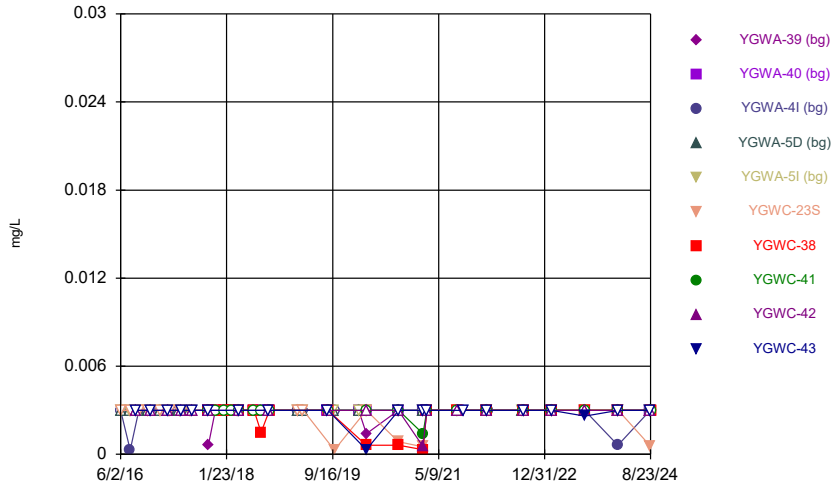

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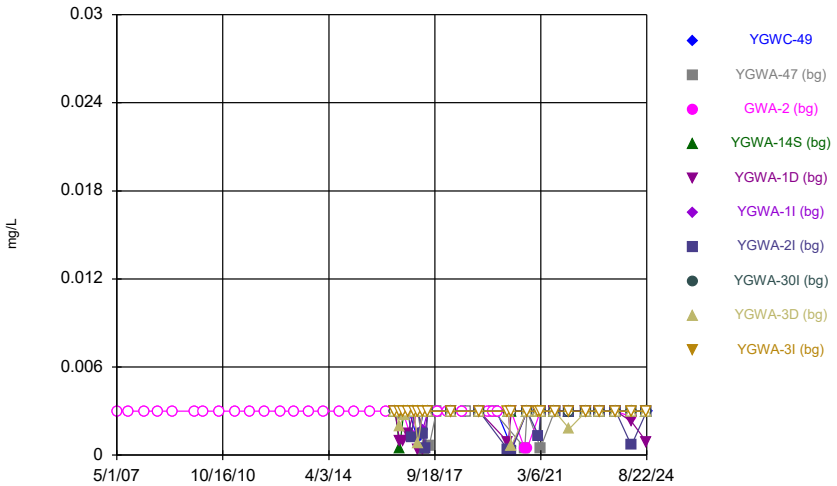

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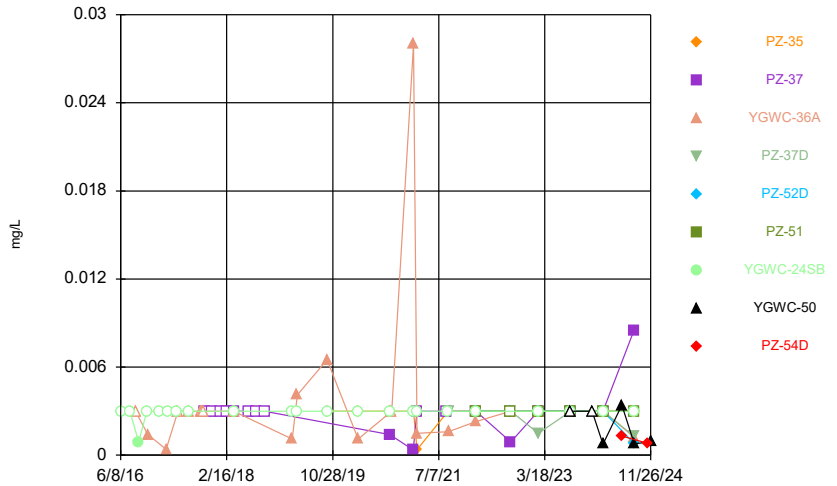

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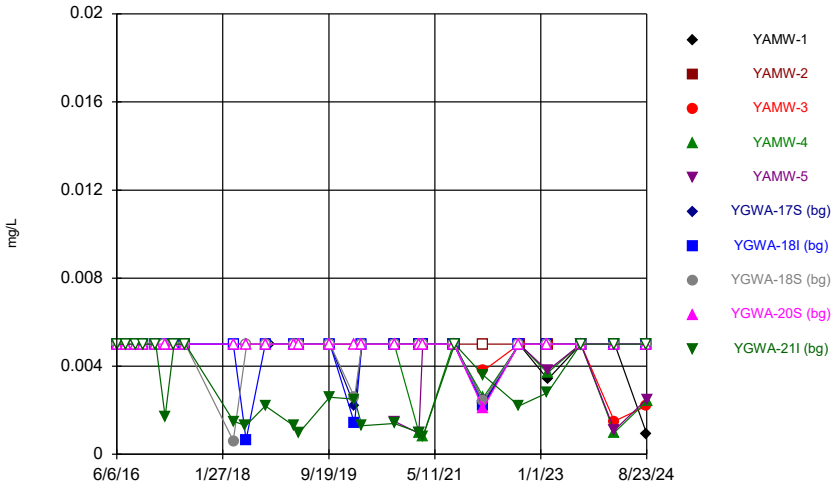

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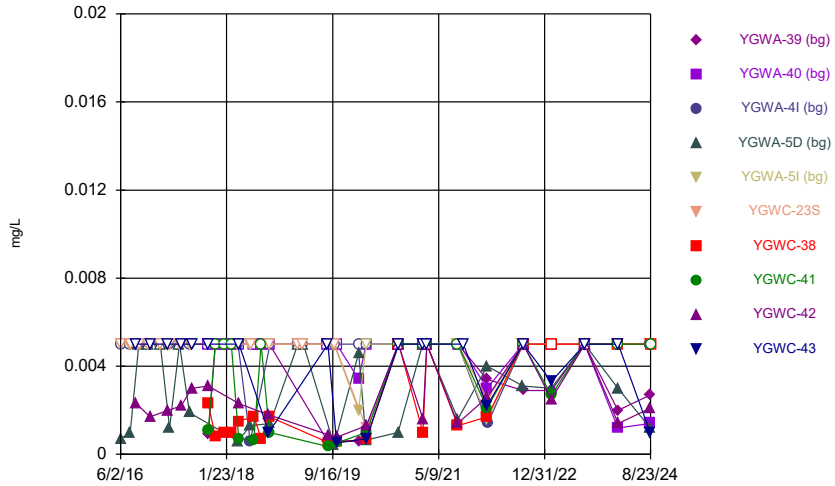

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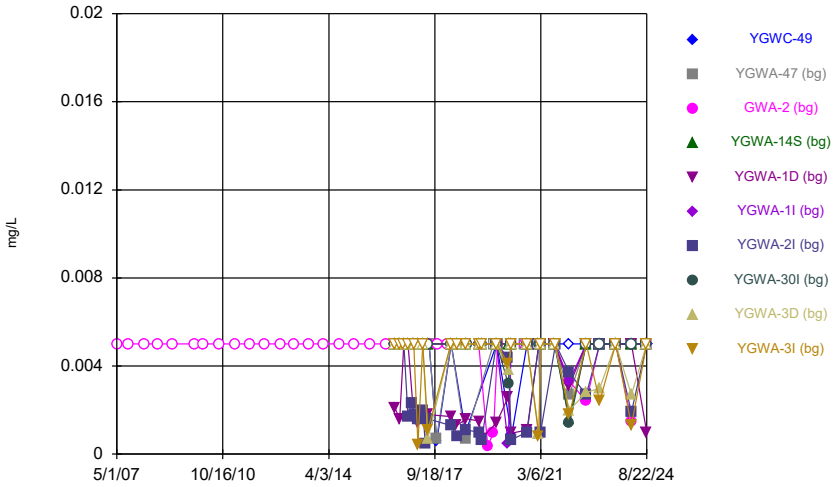

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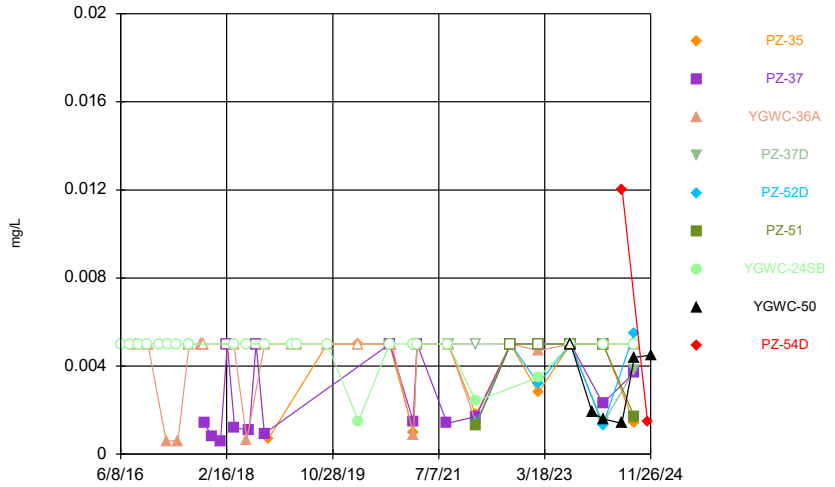

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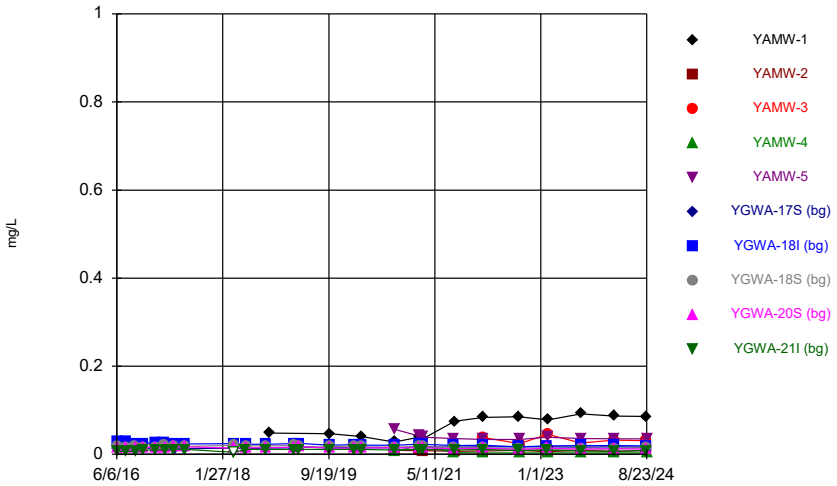

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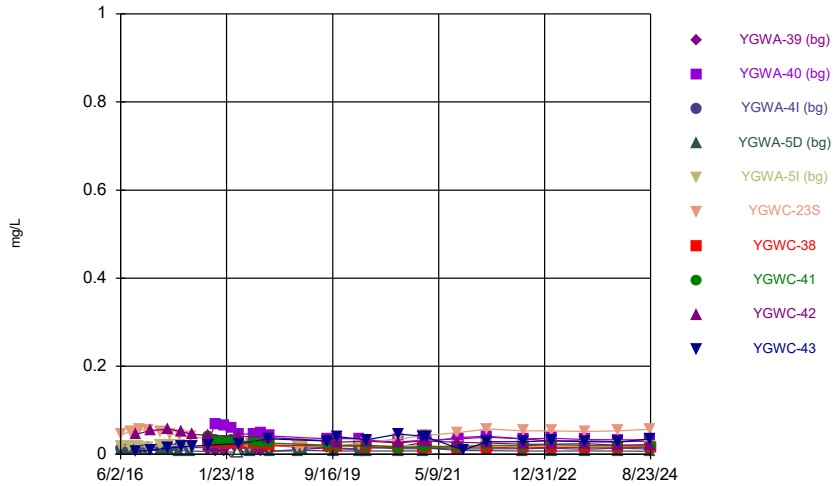

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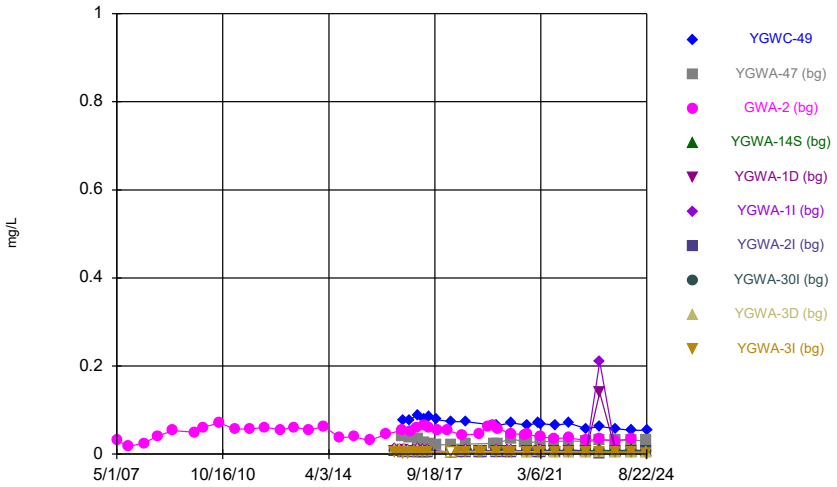

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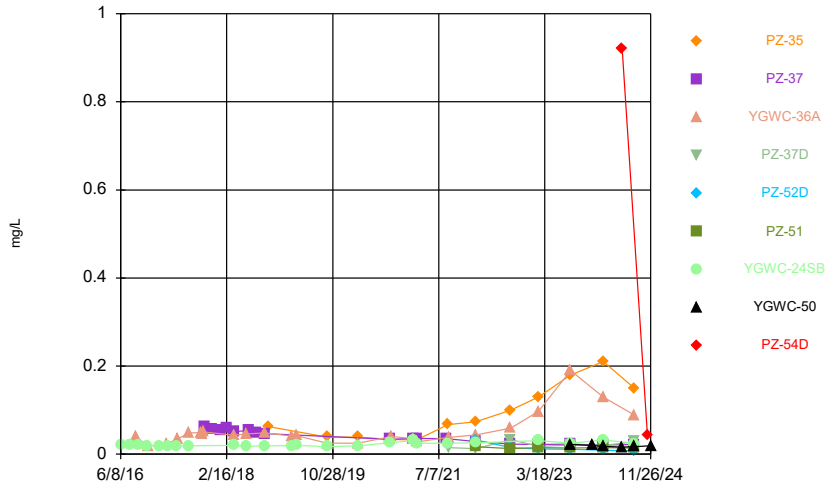

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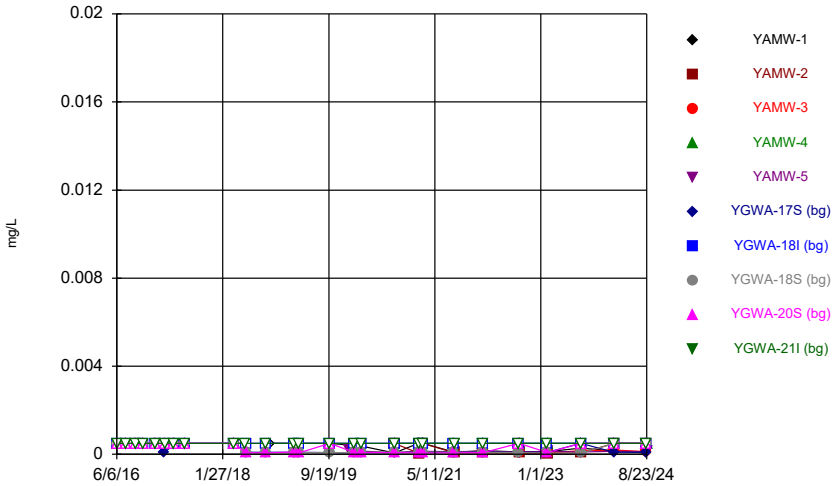

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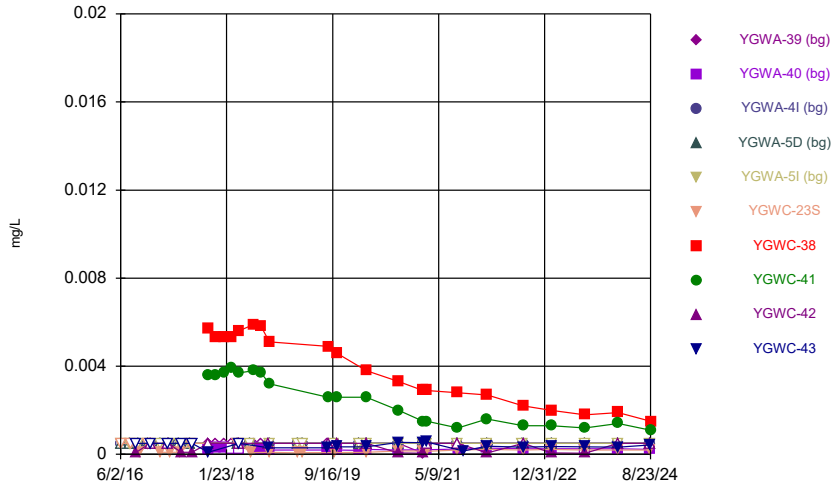

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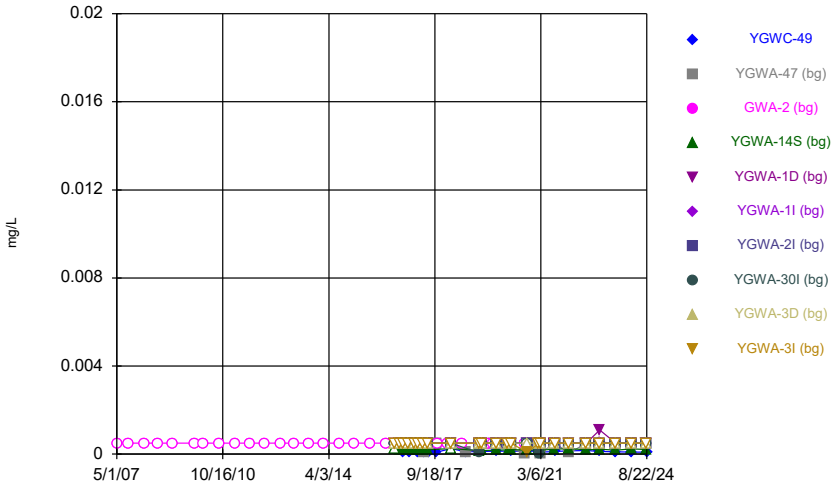

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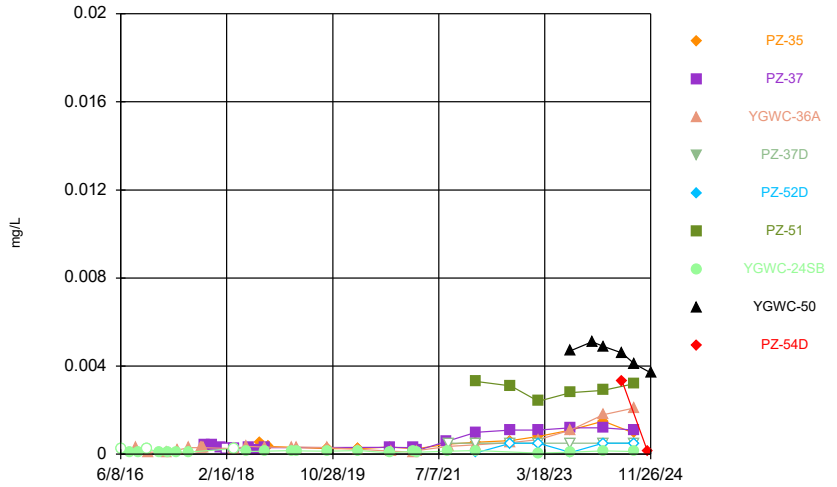

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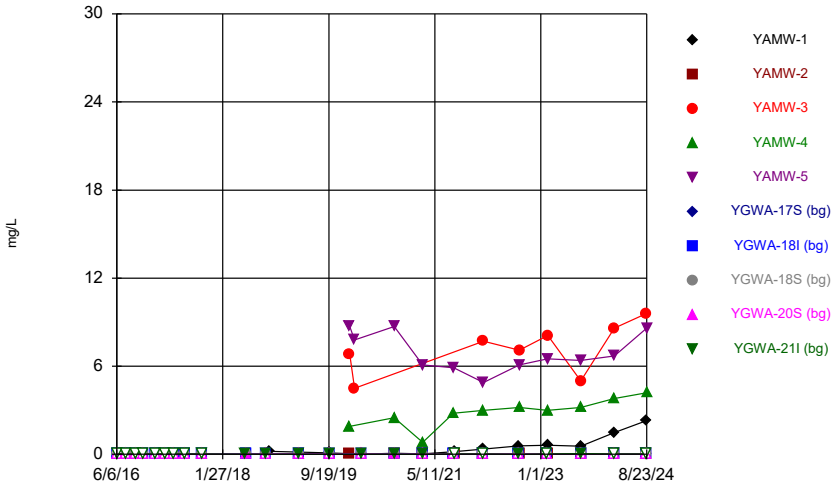

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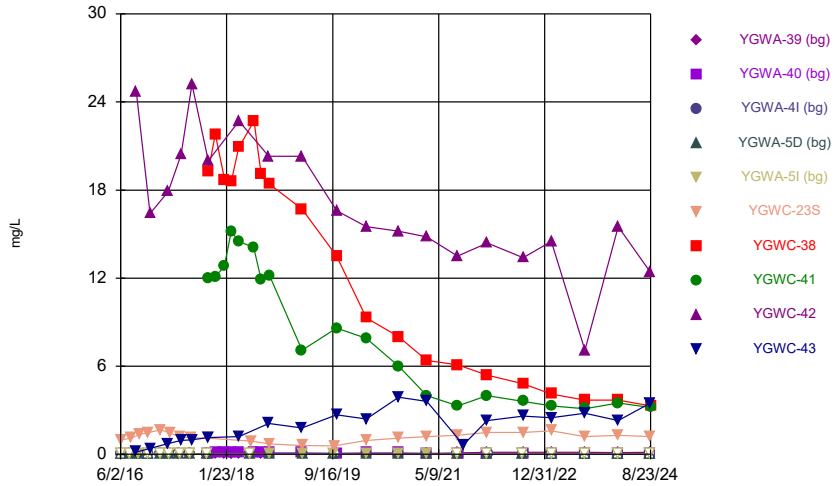

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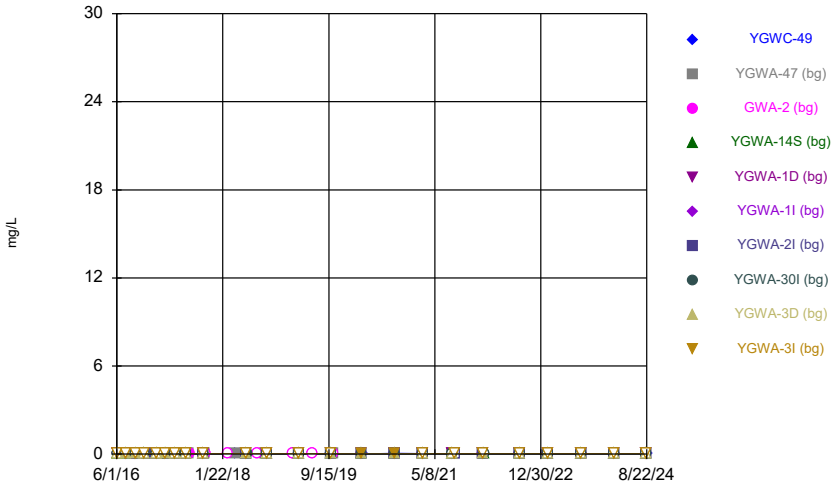

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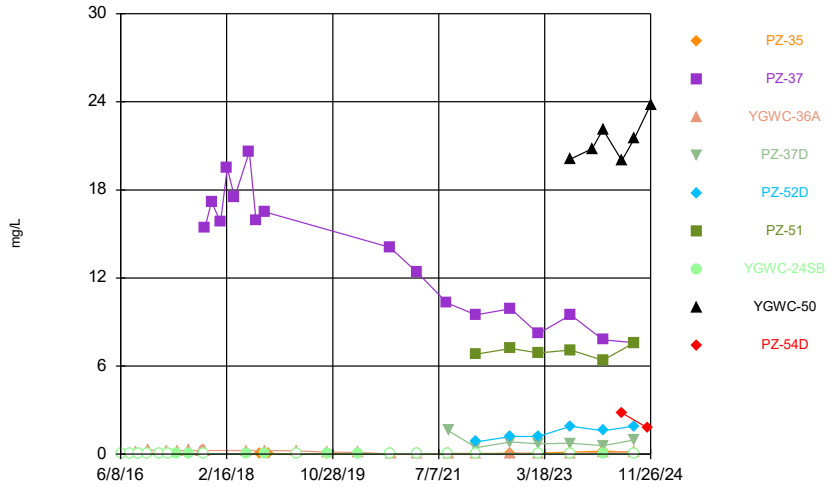

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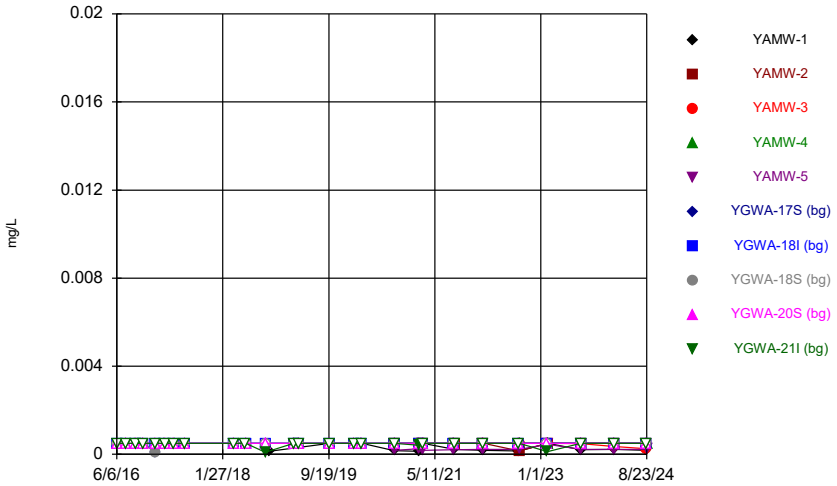

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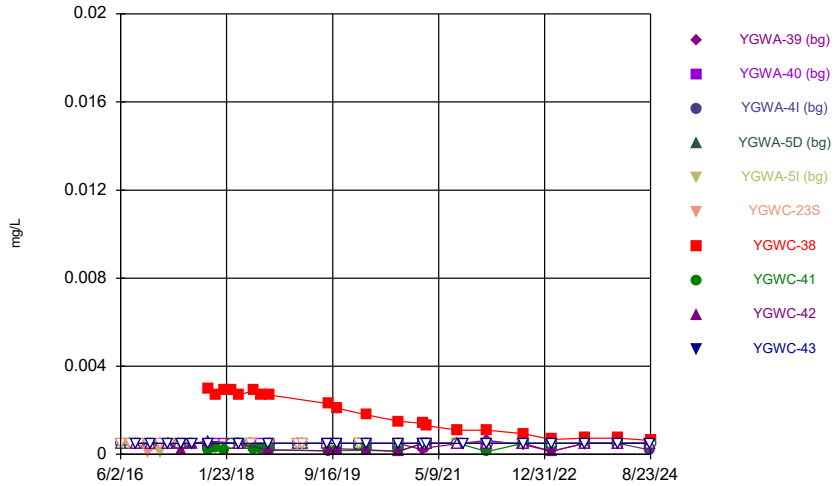

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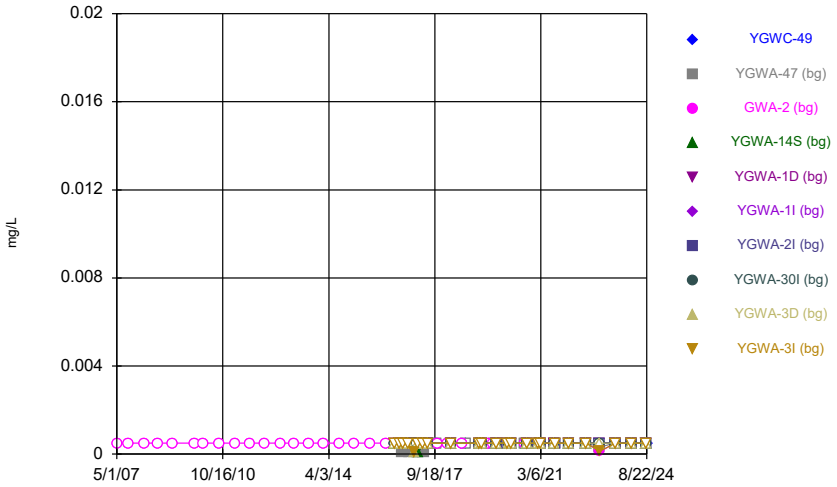

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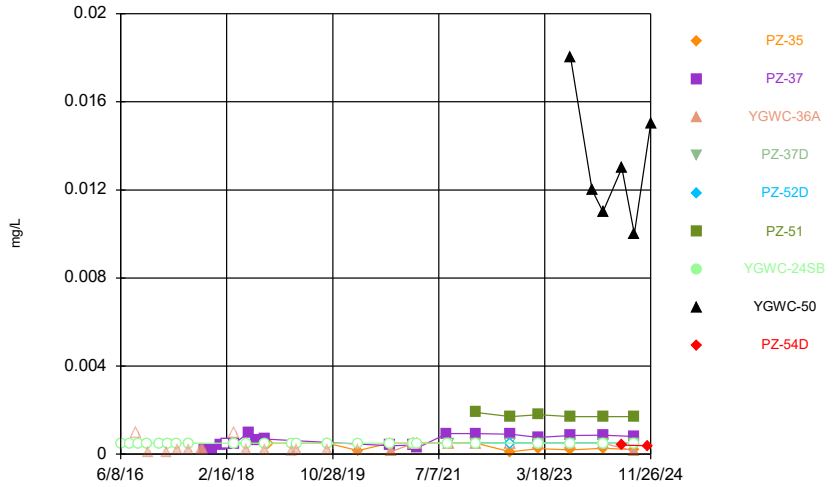

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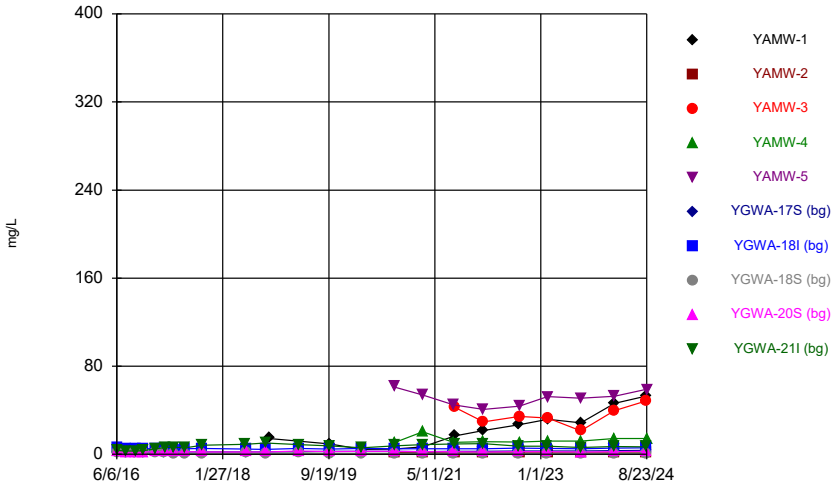

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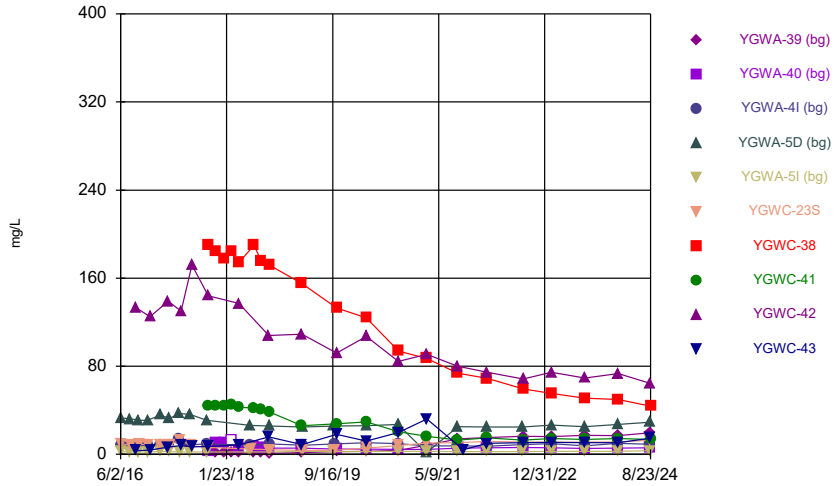

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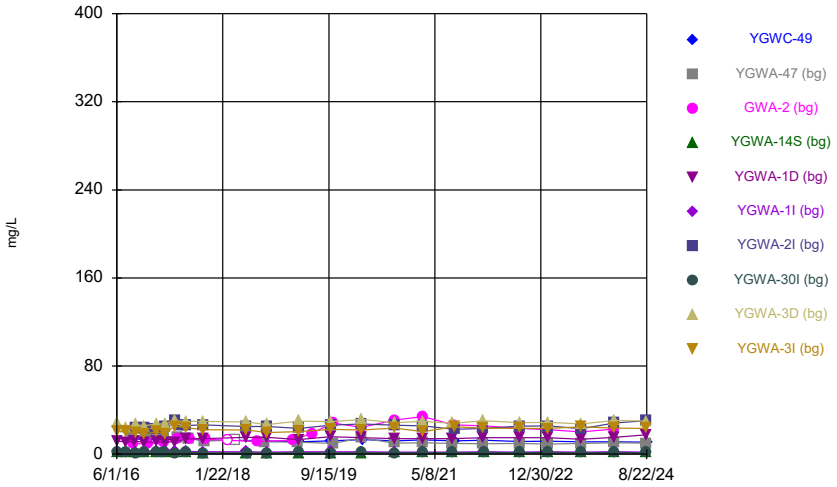

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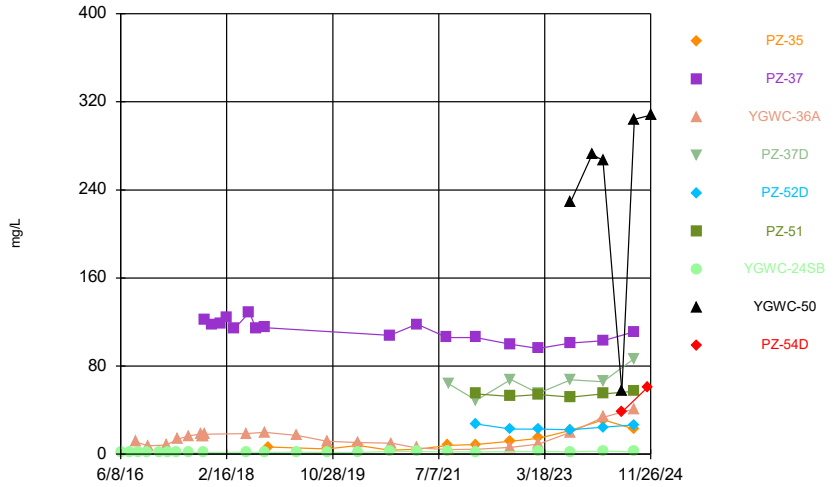

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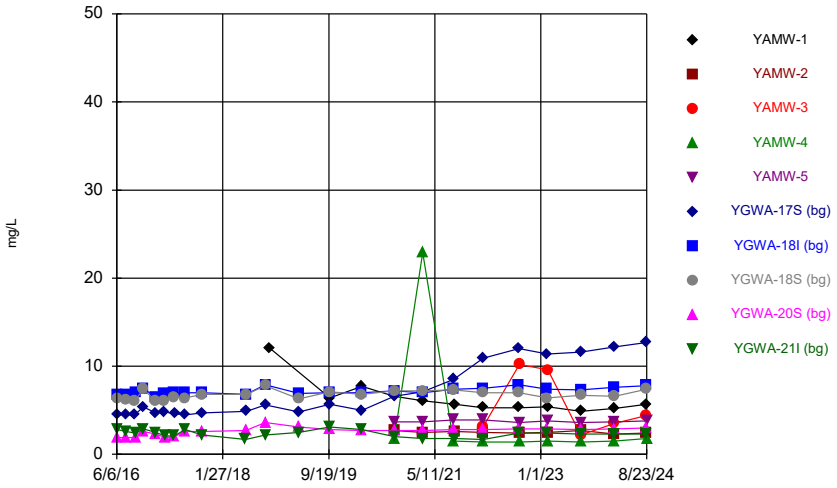

Constituent: Chloride Analysis Run 1/2/2025 11:58 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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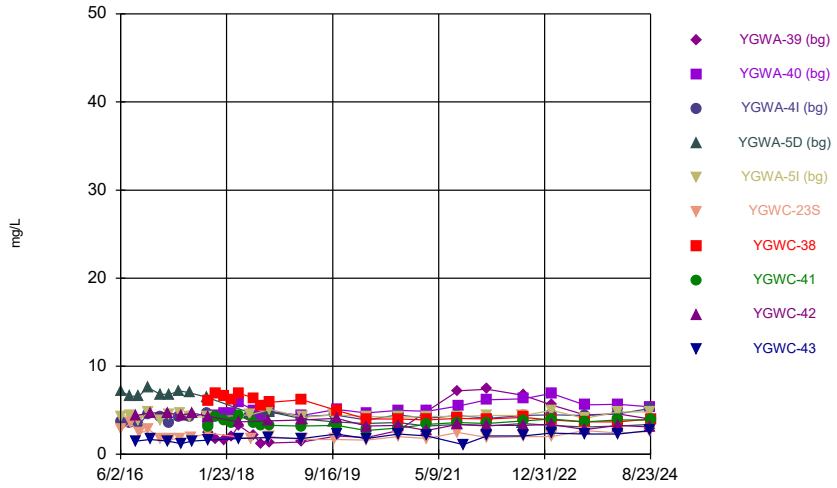
Time Series

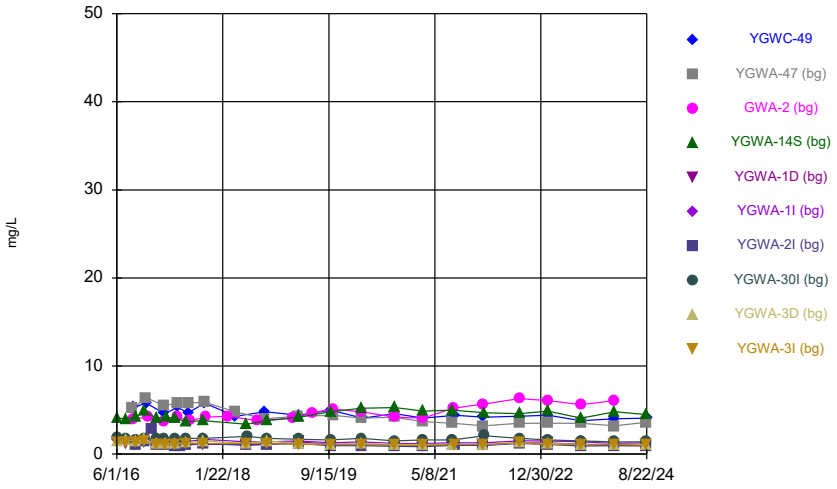


Constituent: Chloride Analysis Run 1/2/2025 11:58 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Time Series

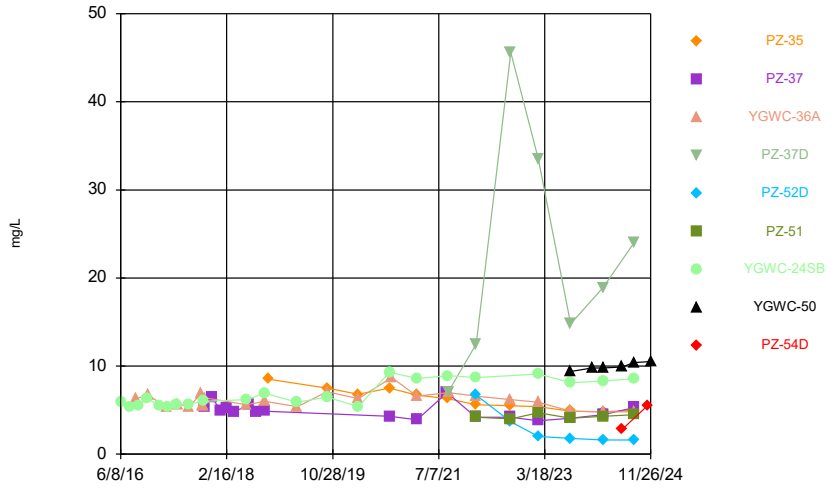


Constituent: Chloride Analysis Run 1/2/2025 11:58 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Time Series

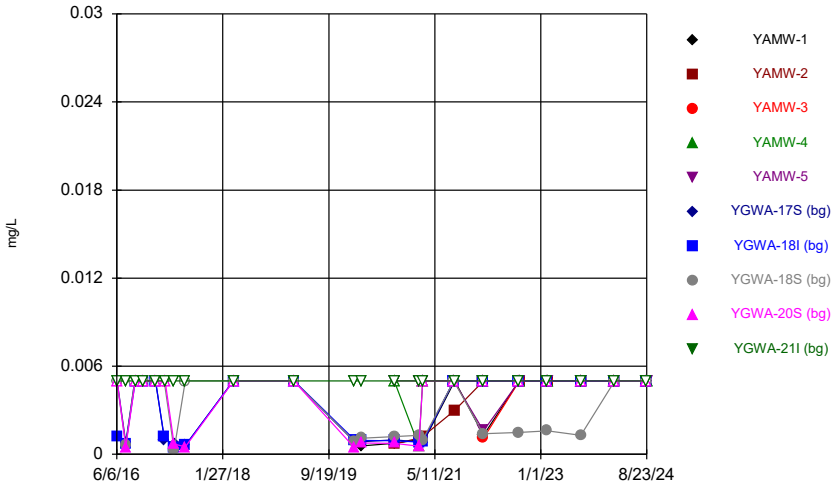


Constituent: Chloride Analysis Run 1/2/2025 11:58 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

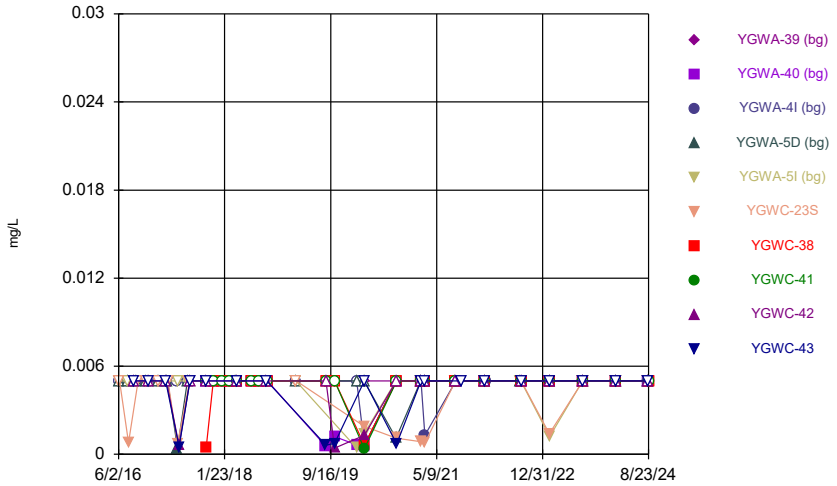
Time Series



Constituent: Chromium Analysis Run 1/2/2025 11:58 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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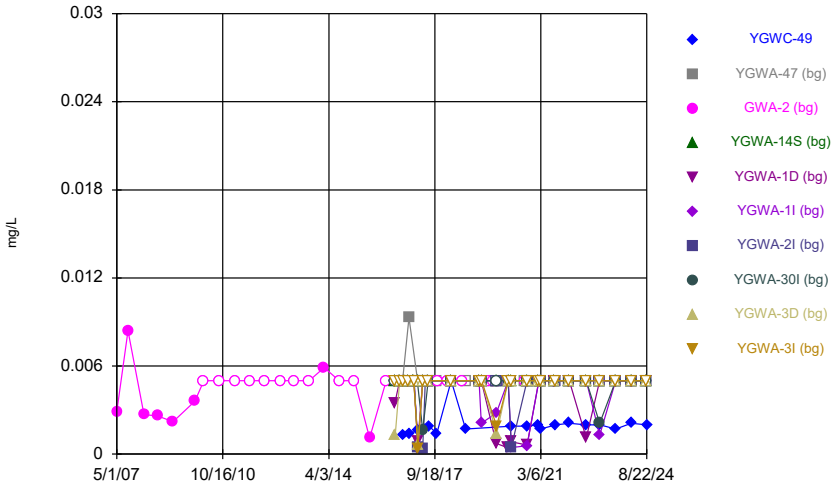
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

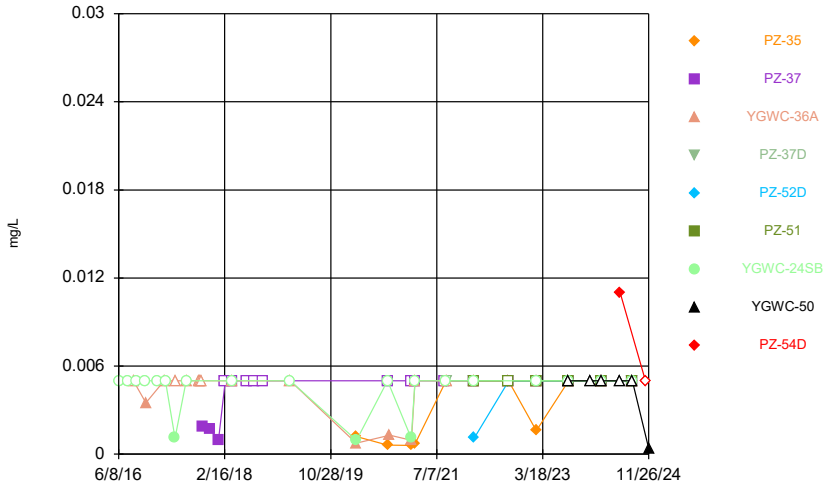
Time Series



Constituent: Chromium Analysis Run 1/2/2025 11:59 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

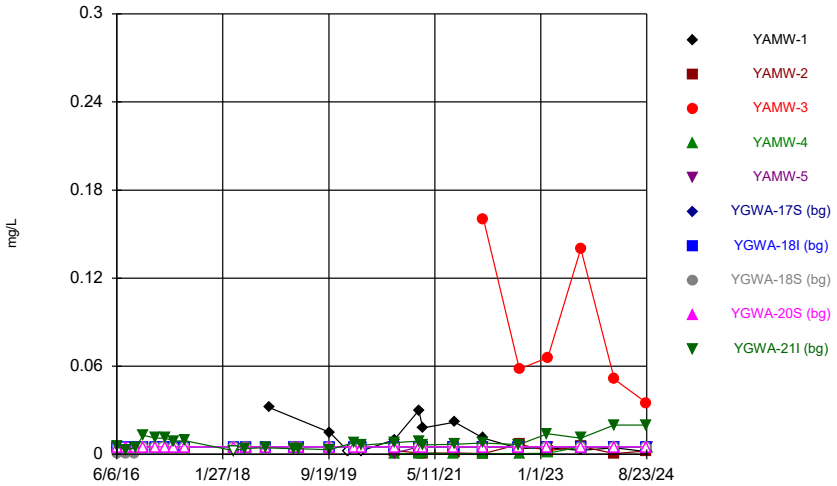
Time Series



Constituent: Chromium Analysis Run 1/2/2025 11:59 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Cobalt Analysis Run 1/2/2025 11:59 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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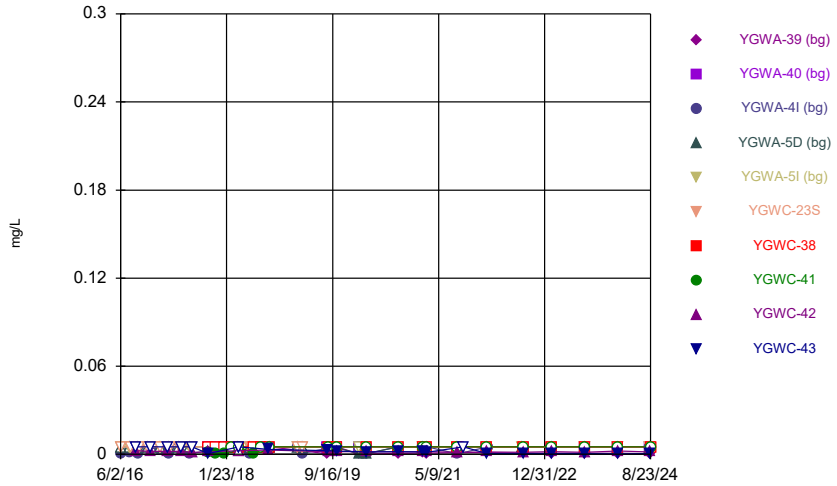
Hollow symbols indicate censored values.

Time Series



Constituent: Cobalt Analysis Run 1/2/2025 11:59 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
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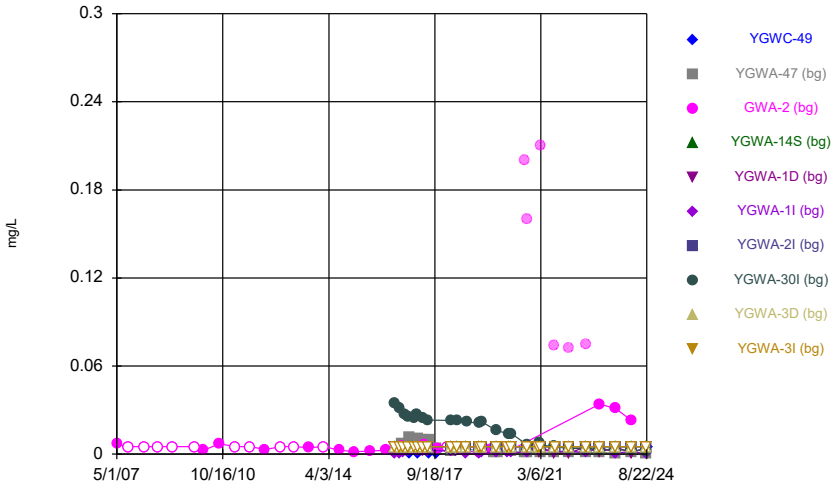
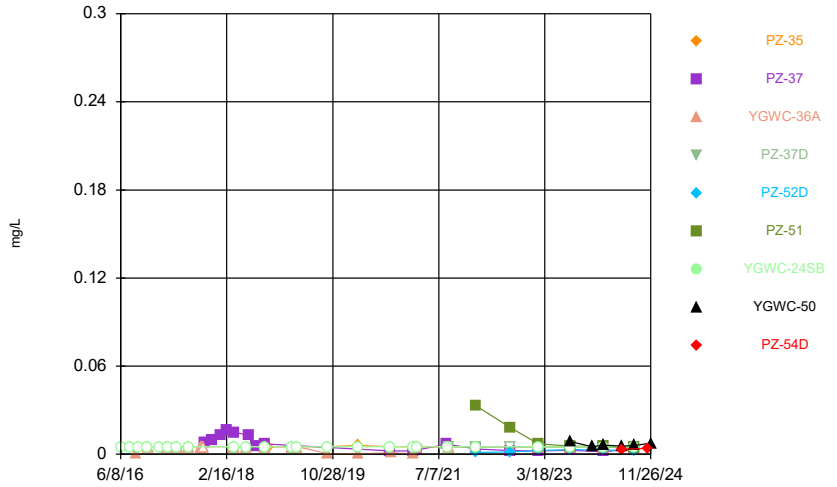
Time Series



Constituent: Cobalt Analysis Run 1/2/2025 11:59 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

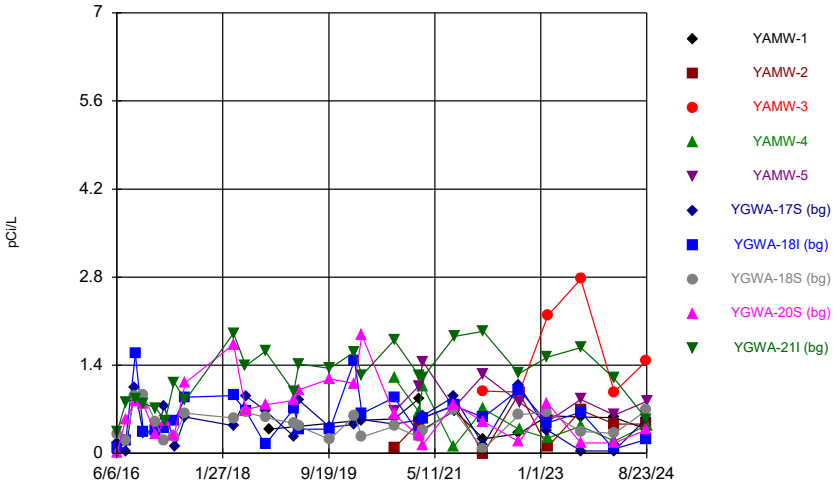
Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Cobalt Analysis Run 1/2/2025 11:59 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

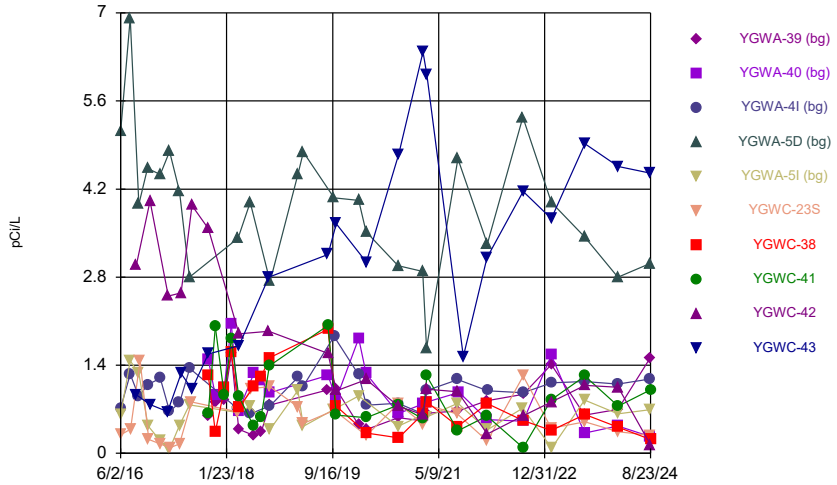
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 1/2/2025 11:59 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

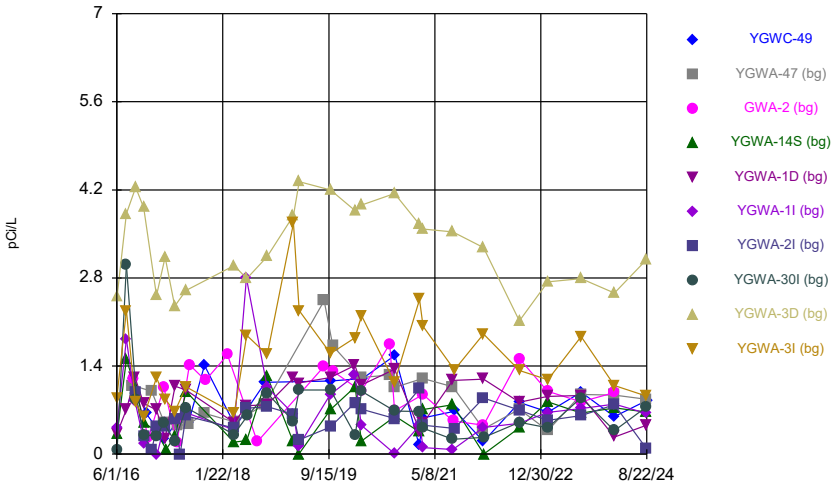
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 1/2/2025 11:59 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Time Series



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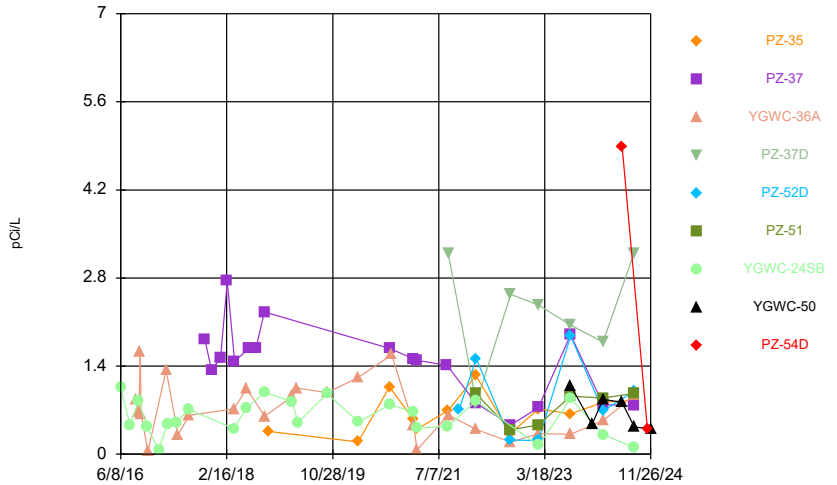
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

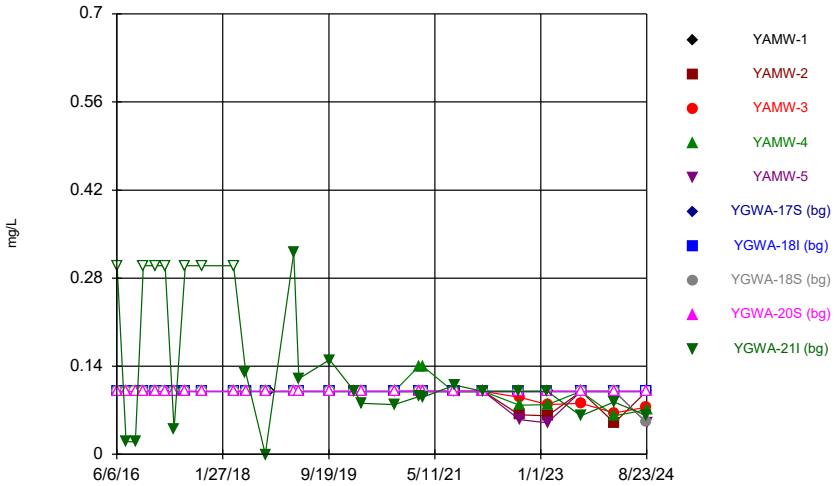
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 1/2/2025 11:59 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Fluoride Analysis Run 1/2/2025 11:59 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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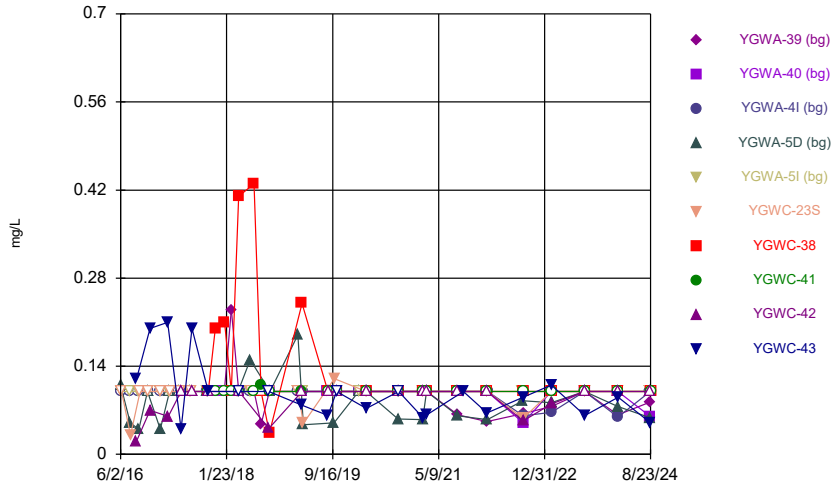
Hollow symbols indicate censored values.

Time Series



Constituent: Fluoride Analysis Run 1/2/2025 11:59 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
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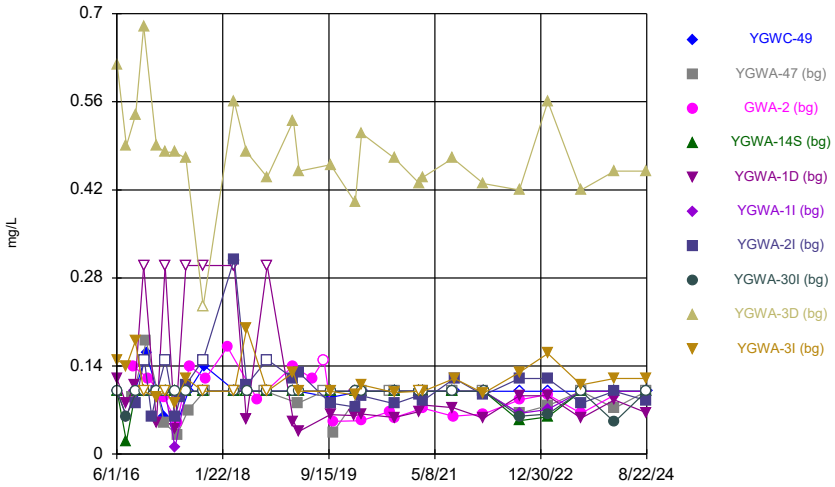
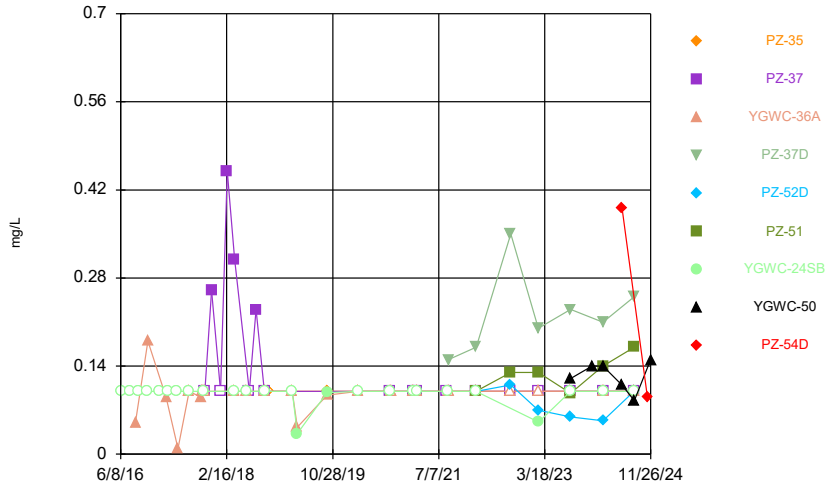
Time Series



Constituent: Fluoride Analysis Run 1/2/2025 11:59 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

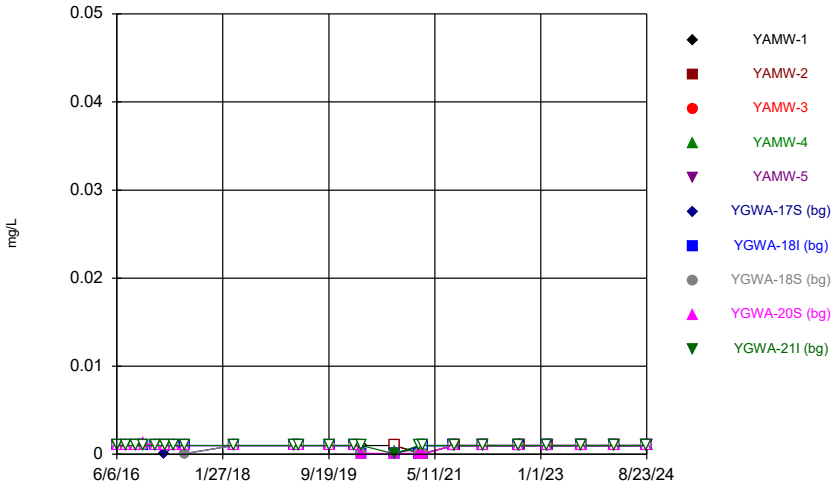
Time Series



Constituent: Fluoride Analysis Run 1/2/2025 11:59 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

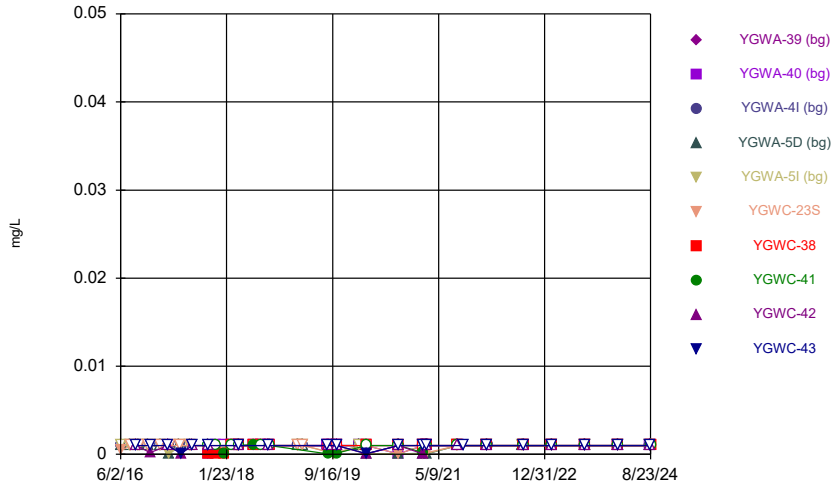
Time Series



Constituent: Lead Analysis Run 1/2/2025 11:59 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Lead Analysis Run 1/2/2025 11:59 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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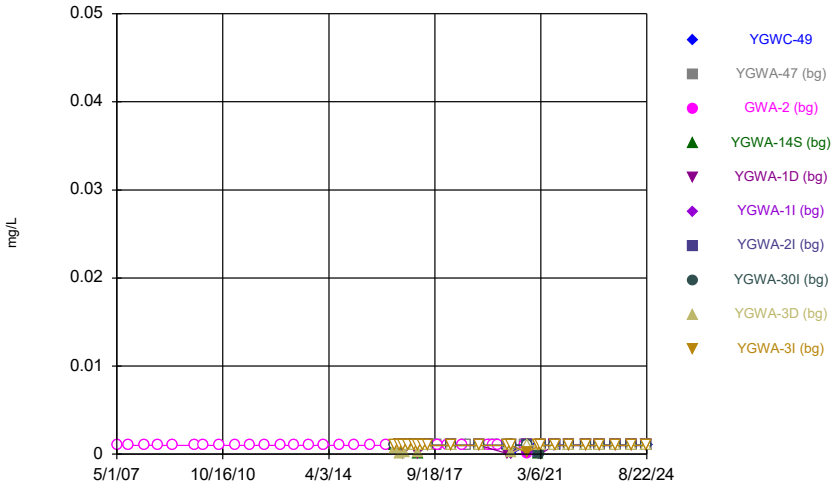

Constituent: Lead Analysis Run 1/2/2025 11:59 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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Hollow symbols indicate censored values.

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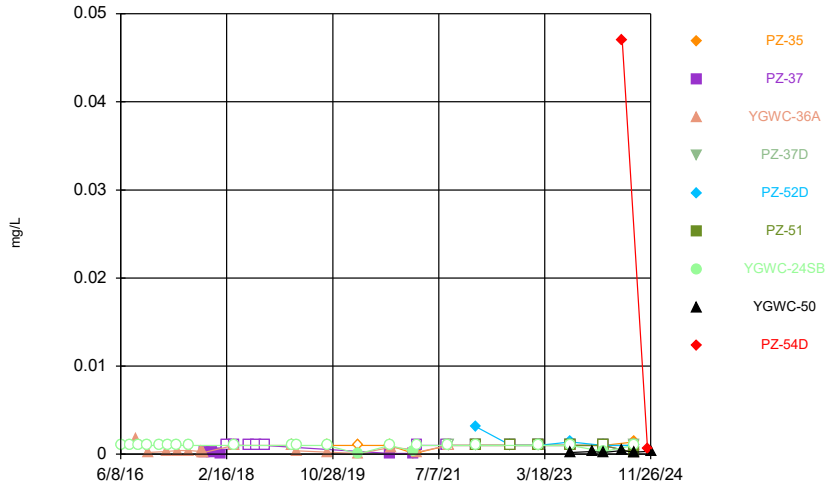

Constituent: Lead Analysis Run 1/2/2025 11:59 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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Hollow symbols indicate censored values.

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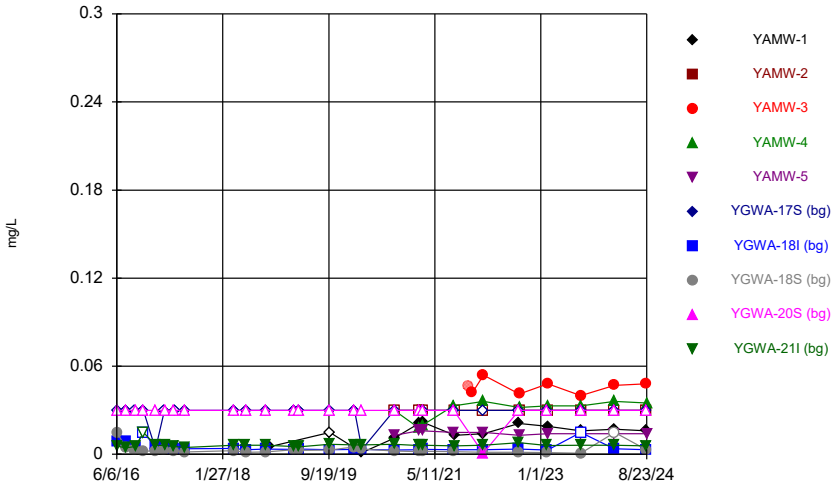
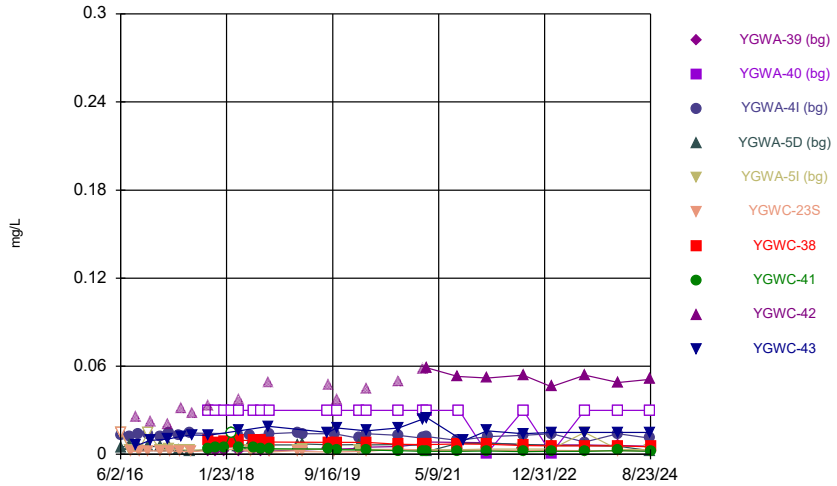


Constituent: Lithium Analysis Run 1/2/2025 11:59 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Lithium Analysis Run 1/2/2025 11:59 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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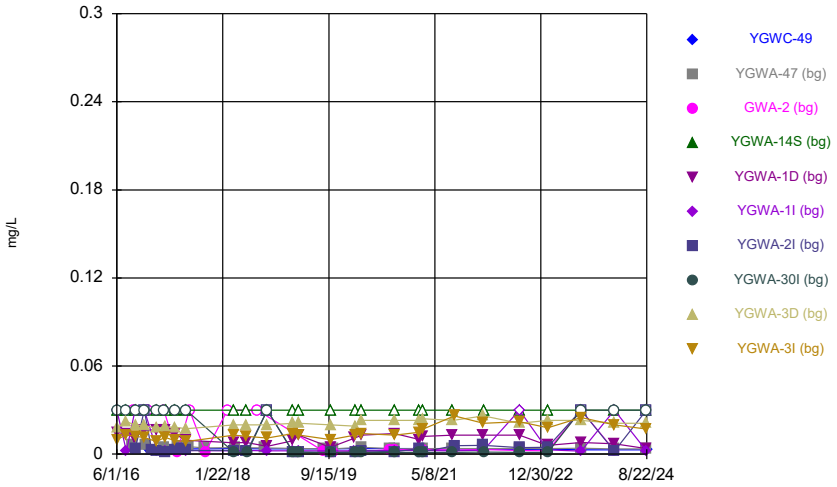
Time Series



Constituent: Lithium Analysis Run 1/2/2025 11:59 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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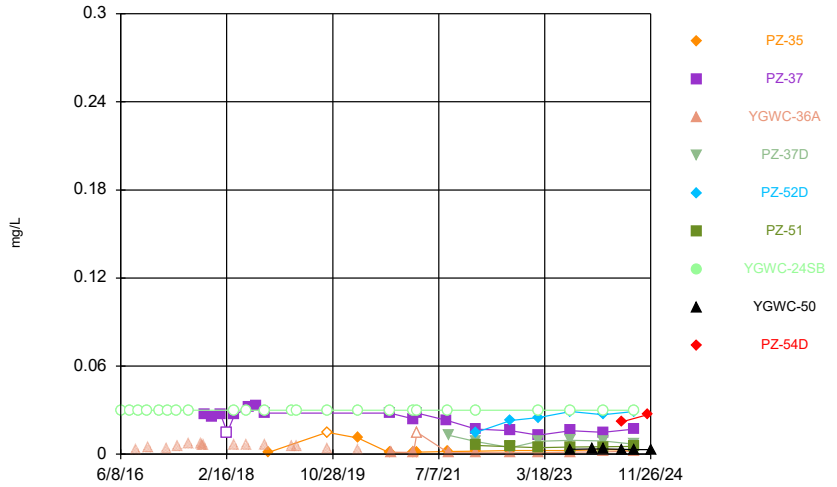
Time Series



Constituent: Lithium Analysis Run 1/2/2025 11:59 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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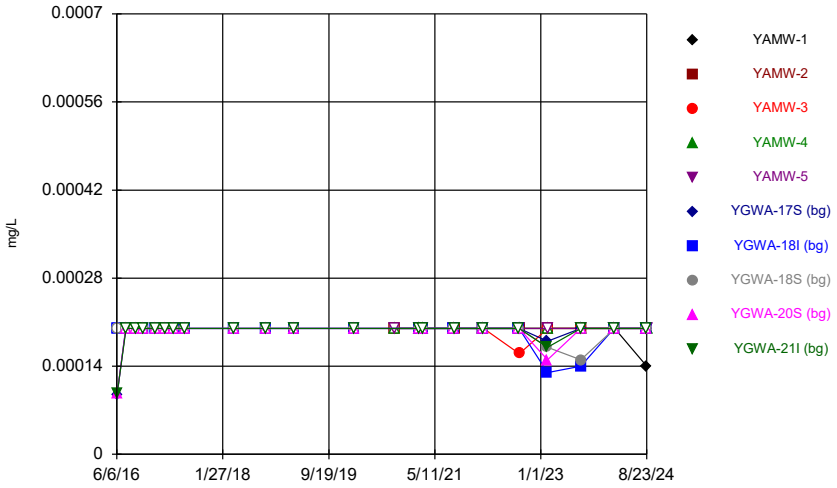
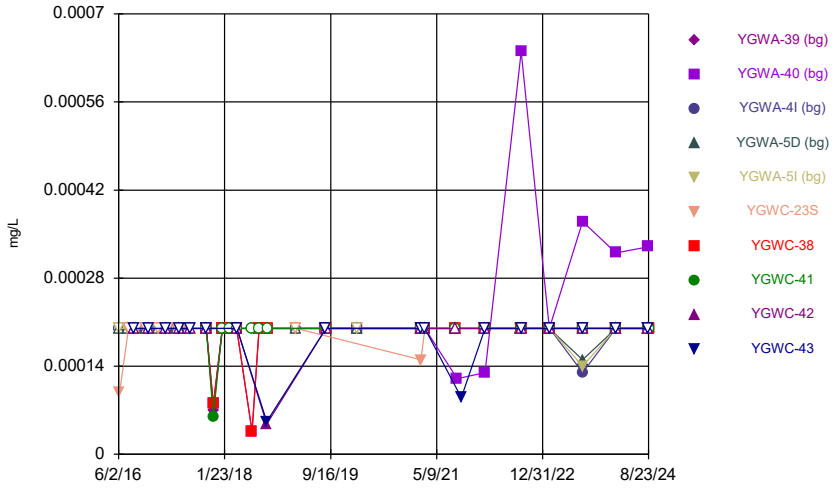
Time Series



Constituent: Mercury Analysis Run 1/2/2025 11:59 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

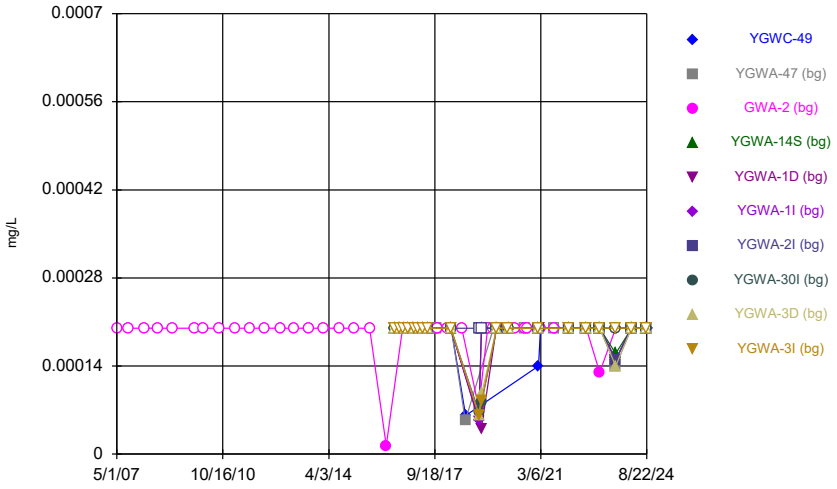
Time Series



Constituent: Mercury Analysis Run 1/2/2025 11:59 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

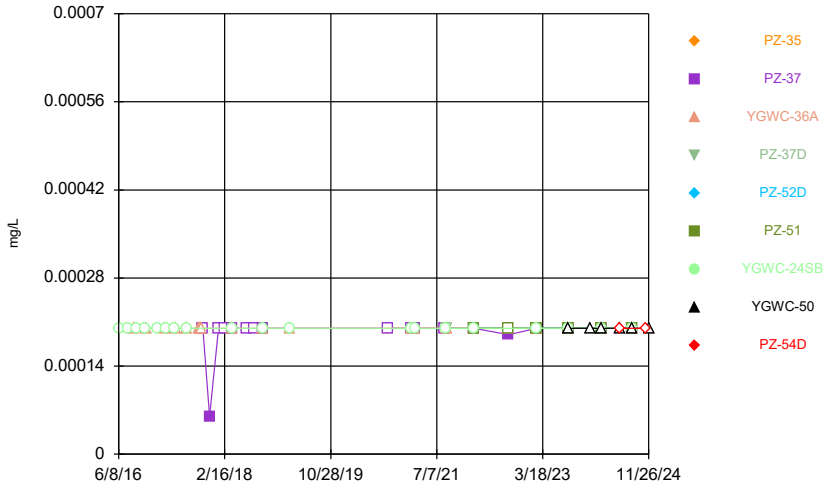
Time Series



Constituent: Mercury Analysis Run 1/2/2025 11:59 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Mercury Analysis Run 1/2/2025 11:59 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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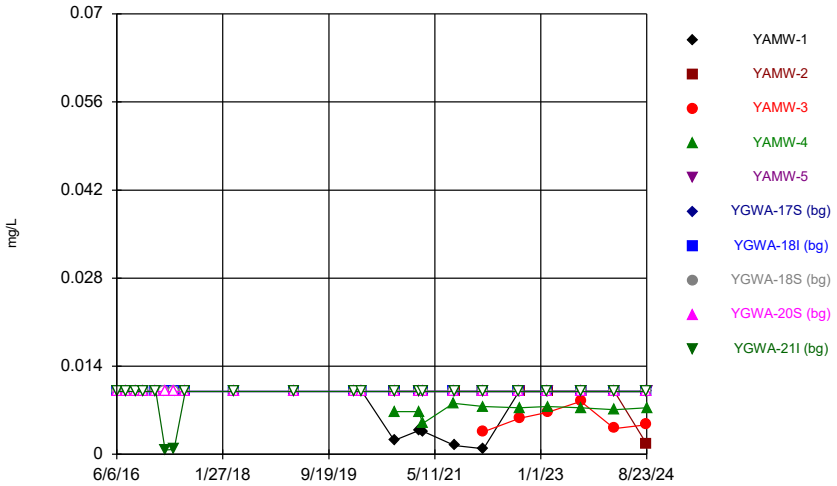
Hollow symbols indicate censored values.

Time Series



Constituent: Molybdenum Analysis Run 1/2/2025 11:59 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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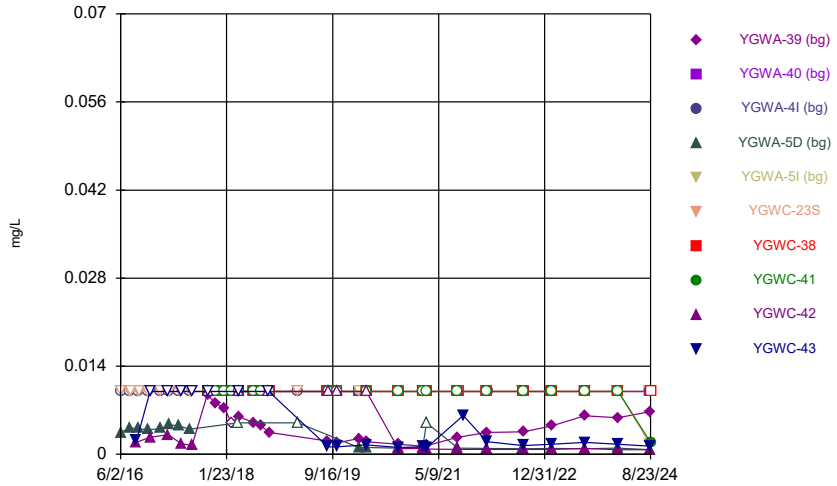
Time Series



Constituent: Molybdenum Analysis Run 1/2/2025 11:59 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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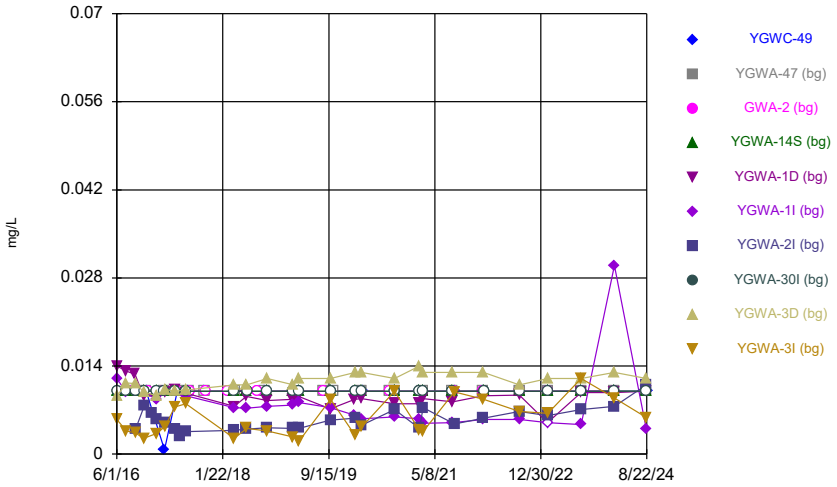
Time Series



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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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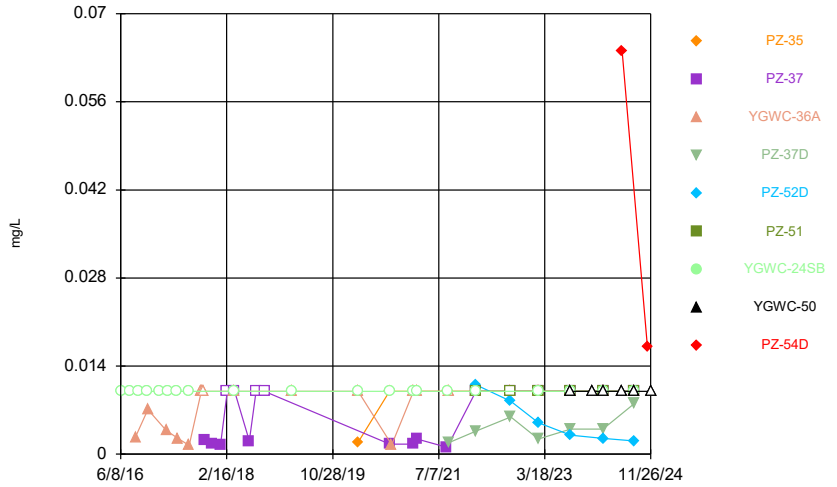
Time Series



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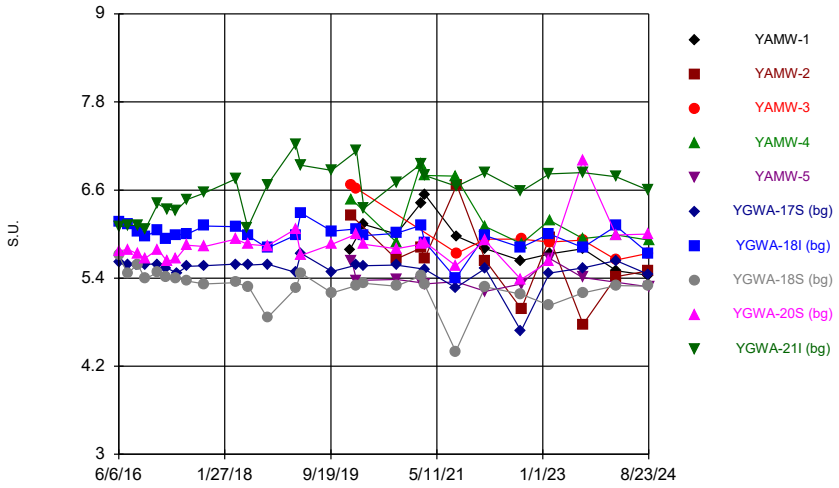
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series

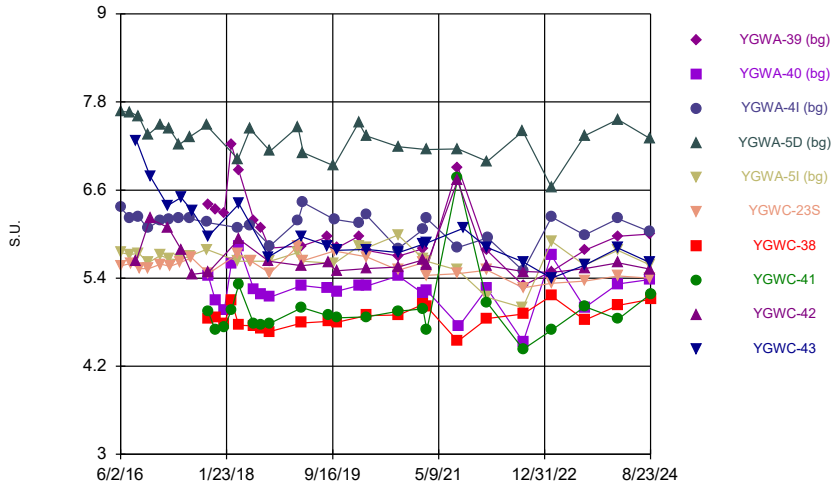


Constituent: pH Analysis Run 1/2/2025 11:59 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Time Series

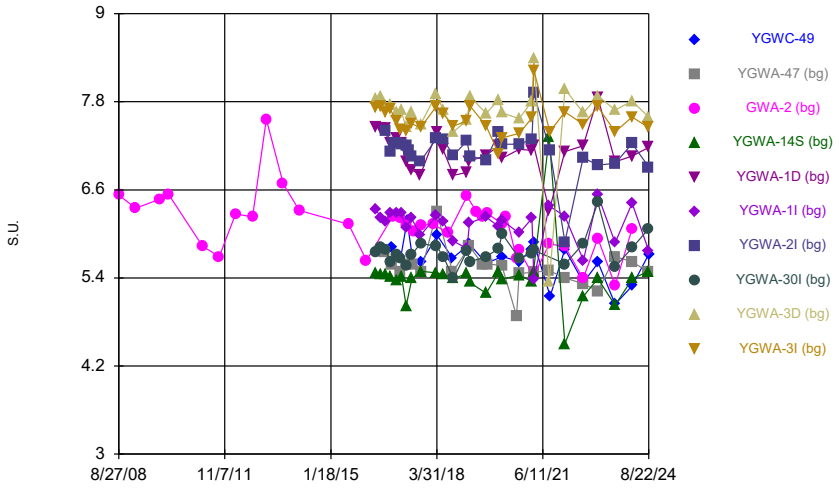


Constituent: pH Analysis Run 1/2/2025 11:59 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Time Series

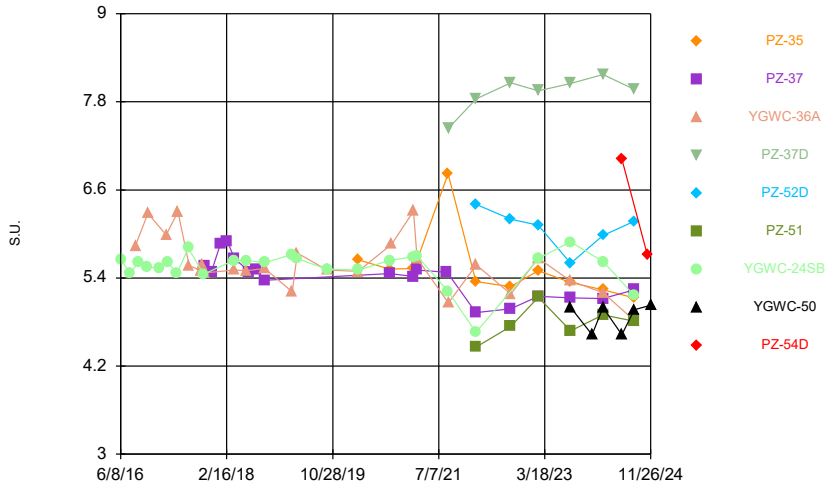


Constituent: pH Analysis Run 1/2/2025 11:59 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Time Series



Constituent: pH Analysis Run 1/2/2025 11:59 AM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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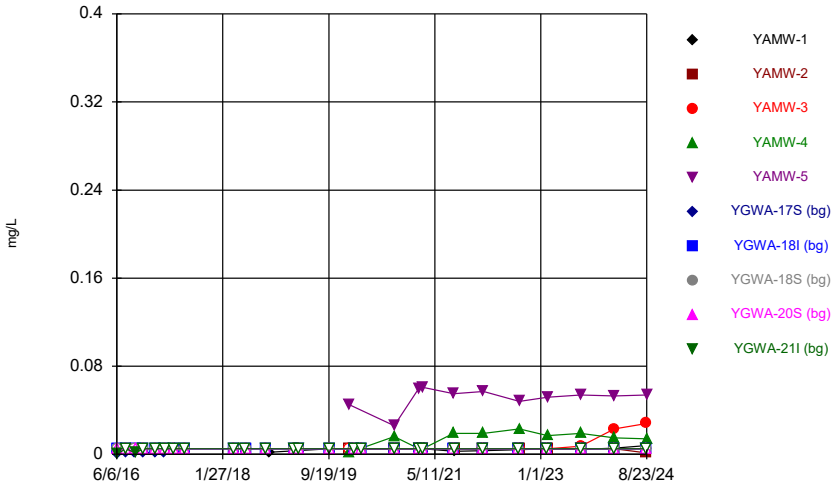
Hollow symbols indicate censored values.

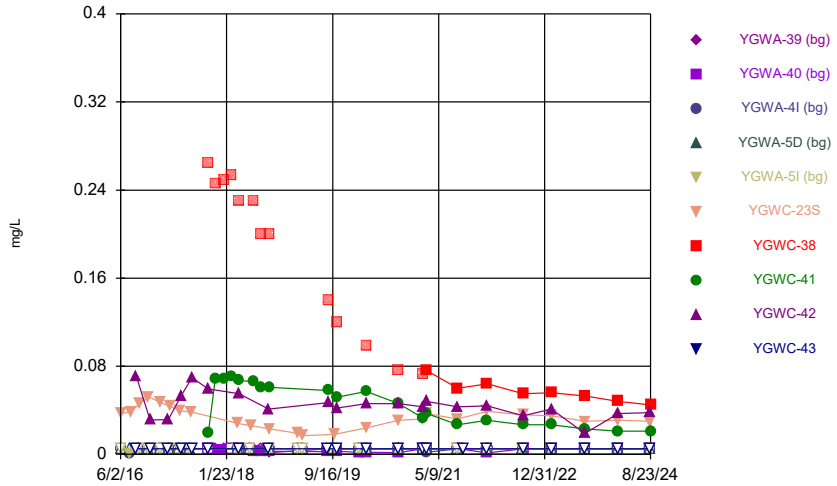
Time Series



Constituent: Selenium Analysis Run 1/2/2025 11:59 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

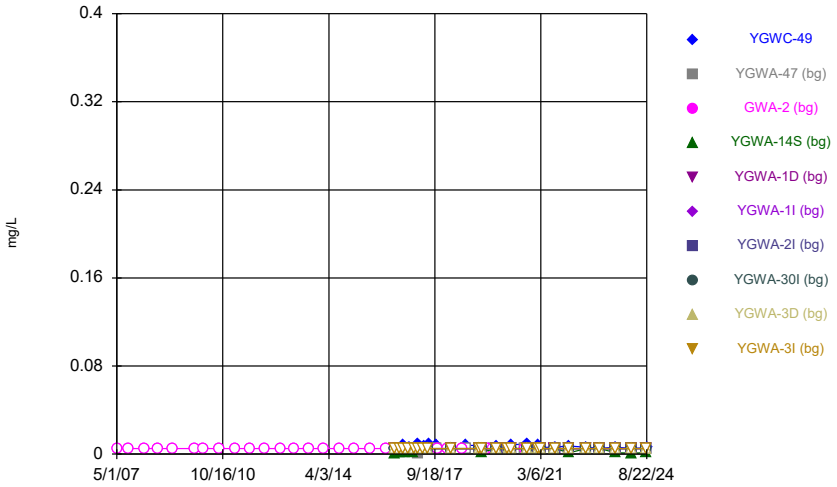
Time Series



Constituent: Selenium Analysis Run 1/2/2025 11:59 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

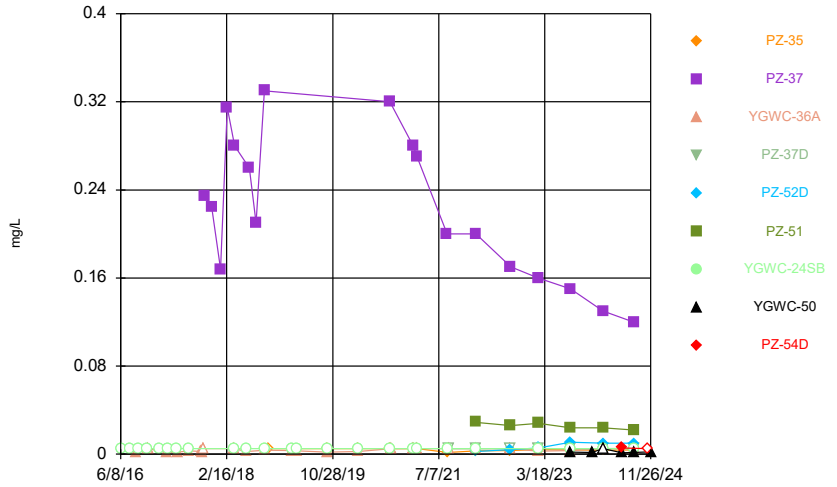
Time Series



Constituent: Selenium Analysis Run 1/2/2025 11:59 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

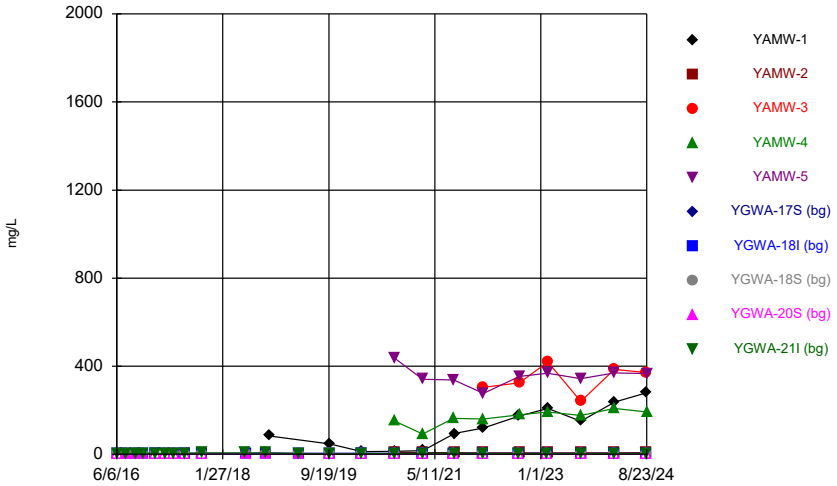
Time Series



Constituent: Selenium Analysis Run 1/2/2025 11:59 AM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

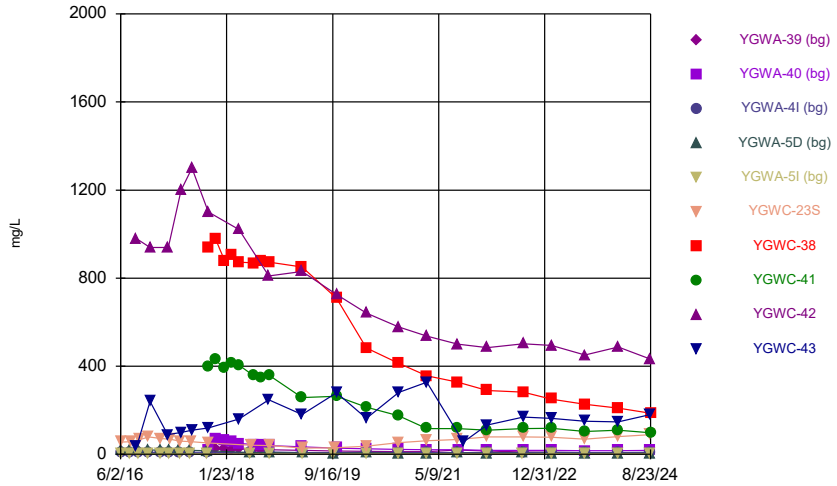
Time Series



Constituent: Sulfate Analysis Run 1/2/2025 12:00 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

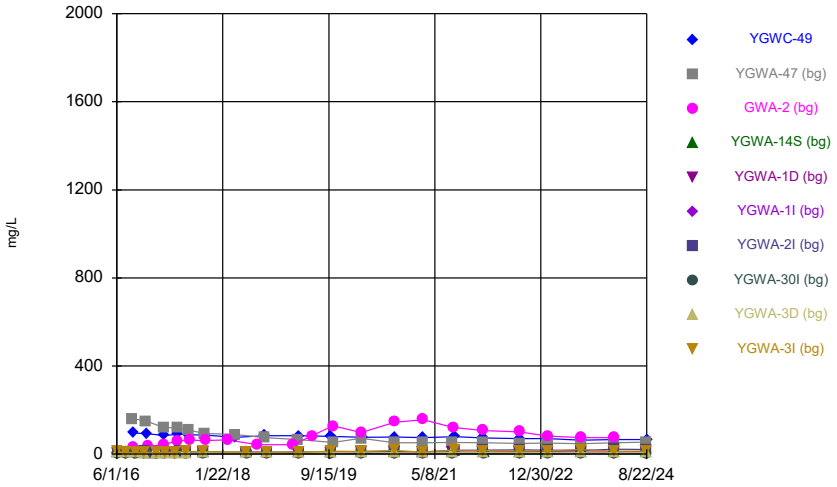
Time Series



Constituent: Sulfate Analysis Run 1/2/2025 12:00 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

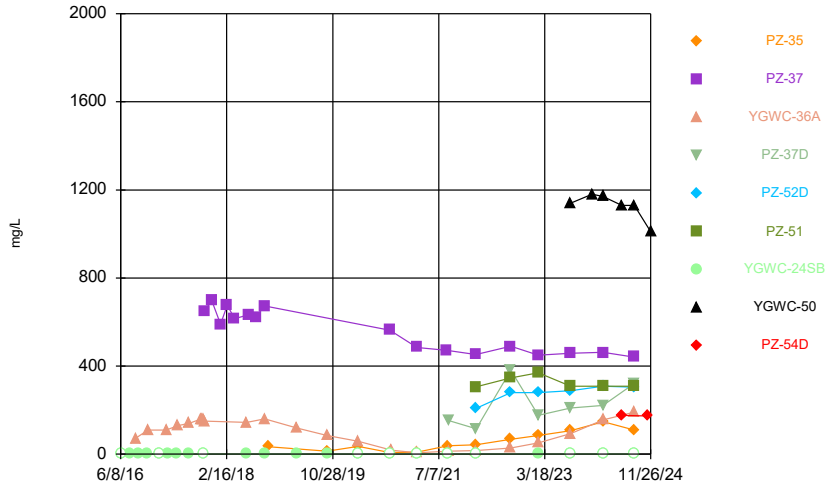
Time Series



Constituent: Sulfate Analysis Run 1/2/2025 12:00 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

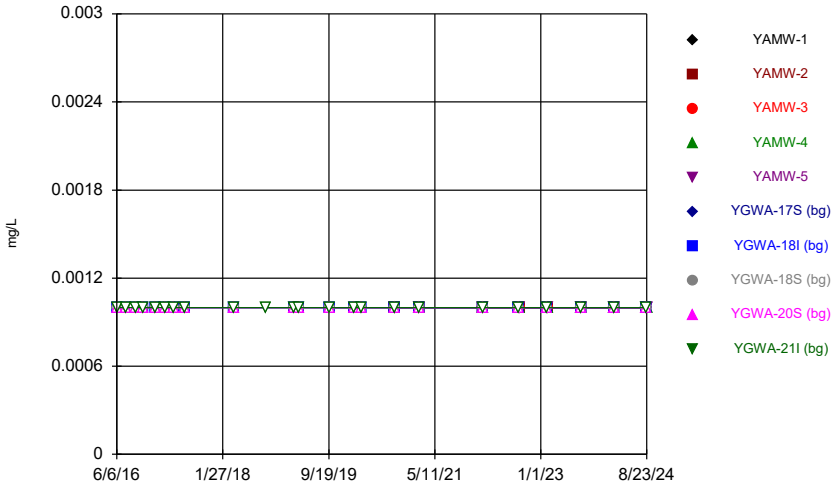
Time Series



Constituent: Sulfate Analysis Run 1/2/2025 12:00 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

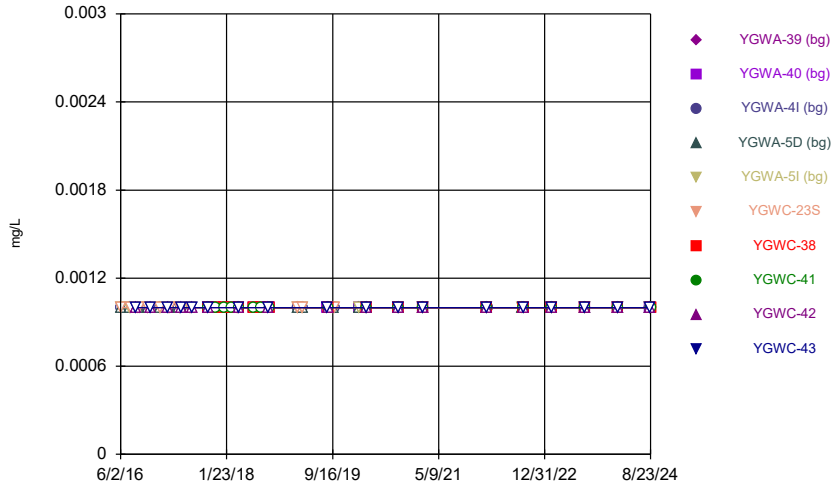
Time Series



Constituent: Thallium Analysis Run 1/2/2025 12:00 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

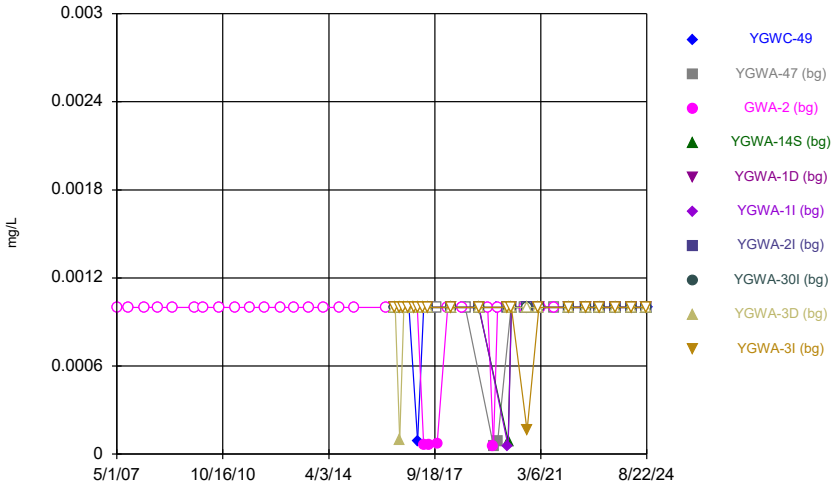
Time Series



Constituent: Thallium Analysis Run 1/2/2025 12:00 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

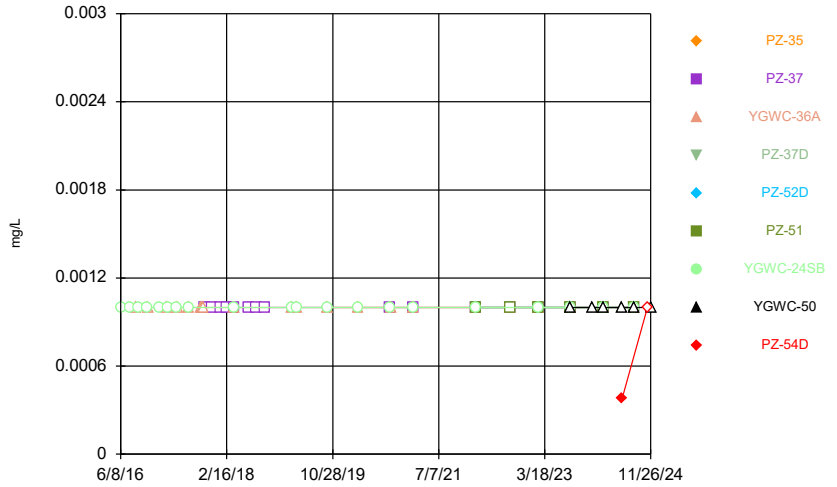
Time Series



Constituent: Thallium Analysis Run 1/2/2025 12:00 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

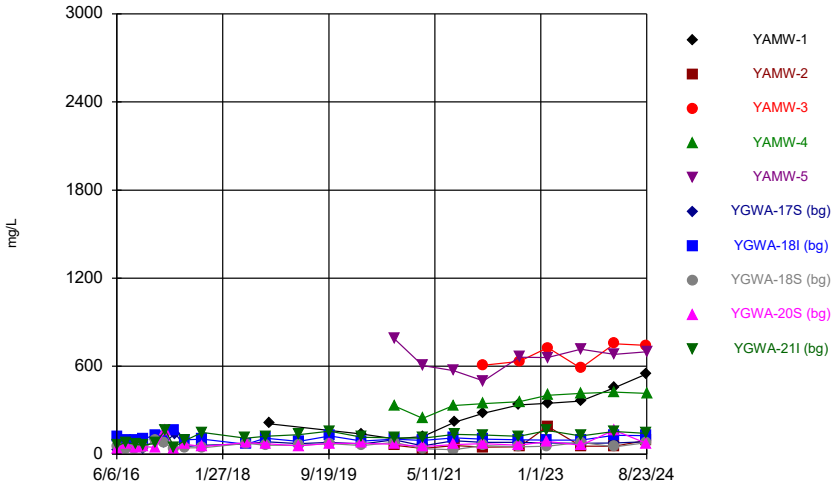
Time Series



Constituent: Thallium Analysis Run 1/2/2025 12:00 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Time Series

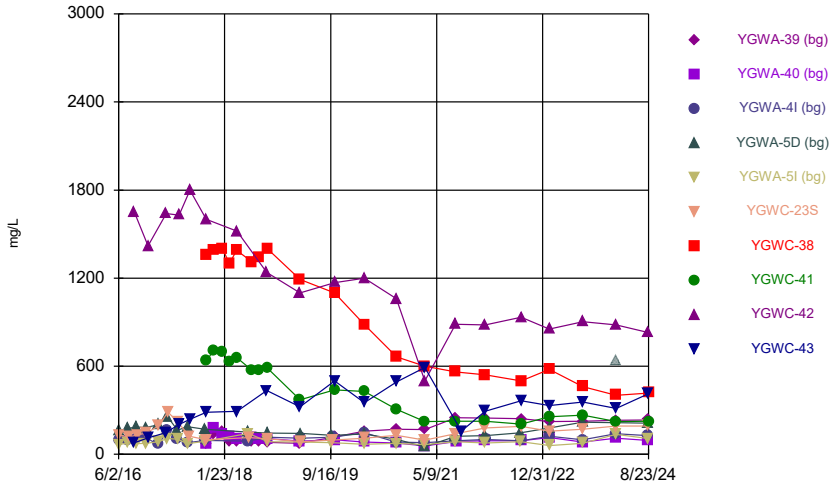


Constituent: Total Dissolved Solids Analysis Run 1/2/2025 12:00 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Time Series



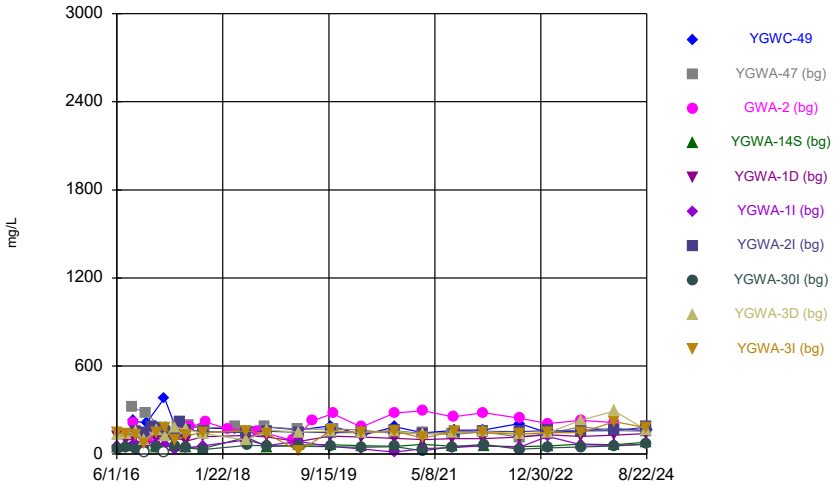
Constituent: Total Dissolved Solids Analysis Run 1/2/2025 12:00 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series

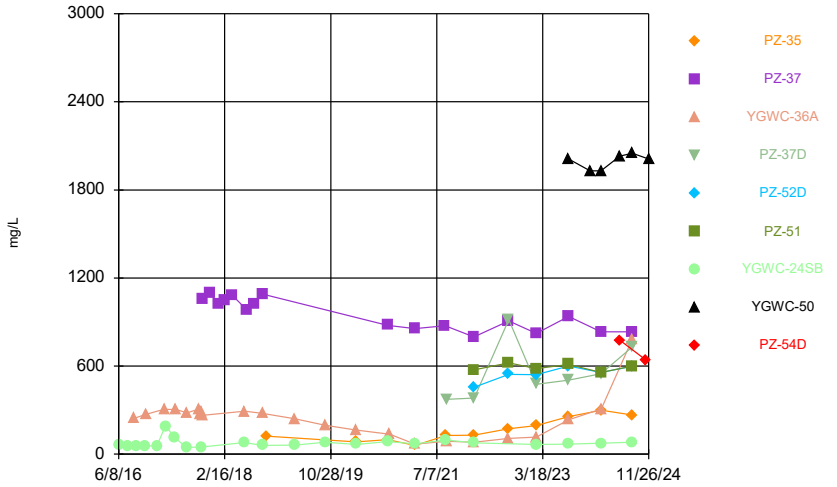


Constituent: Total Dissolved Solids Analysis Run 1/2/2025 12:00 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.24 Software licensed to Groundwater Stats Consulting. UG

Time Series



Constituent: Total Dissolved Solids Analysis Run 1/2/2025 12:00 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Time Series

Constituent: Antimony (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							<0.003	<0.003	
6/7/2016						<0.003			<0.003
7/27/2016						<0.003	0.0005 (J)	<0.003	<0.003
7/28/2016									
9/16/2016						<0.003		<0.003	
9/19/2016							<0.003		<0.003
11/2/2016									<0.003
11/3/2016						<0.003	<0.003	<0.003	
1/11/2017						<0.003	<0.003	<0.003	
1/13/2017									<0.003
3/1/2017							<0.003	<0.003	
3/2/2017						<0.003			
3/6/2017									<0.003
4/26/2017							<0.003	<0.003	<0.003
5/2/2017						<0.003			
6/28/2017							<0.003	<0.003	
6/29/2017						<0.003			<0.003
3/28/2018						<0.003	<0.003	<0.003	
3/29/2018									<0.003
3/5/2019						<0.003		<0.003	<0.003
3/6/2019							<0.003		
4/2/2019						<0.003			
4/3/2019							<0.003	<0.003	<0.003
9/24/2019									
9/25/2019						<0.003			<0.003
9/26/2019	<0.003						0.00056 (J)	<0.003	
2/11/2020						<0.003	<0.003	<0.003	
2/12/2020									<0.003
3/24/2020						<0.003	<0.003	<0.003	<0.003
3/25/2020	<0.003								
9/23/2020		<0.003		0.00065 (J)		<0.003	<0.003	<0.003	
9/24/2020	<0.003				0.00033 (J)				<0.003
2/9/2021	0.00037 (J)	<0.003		0.0011 (J)	<0.003		<0.003	<0.003	0.00032 (J)
3/3/2021	0.025	<0.003		0.00062 (J)		<0.003	<0.003	0.00067 (J)	<0.003
3/4/2021					<0.003				
8/25/2021				<0.003					
8/26/2021					<0.003			<0.003	
8/27/2021						<0.003	<0.003		<0.003
9/1/2021	0.0024 (J)	<0.003							
2/9/2022						<0.003	<0.003	<0.003	<0.003
2/10/2022	<0.003	<0.003	<0.003	<0.003	<0.003				
8/30/2022						<0.003	<0.003	<0.003	
8/31/2022	0.0016 (J)								<0.003
9/1/2022		<0.003	<0.003	<0.003	<0.003				
2/7/2023						0.0013 (J)	<0.003	<0.003	<0.003
2/8/2023		<0.003		<0.003	<0.003				
2/9/2023	<0.003		<0.003						
8/15/2023						<0.003	<0.003	<0.003	<0.003
8/16/2023	<0.003		<0.003	<0.003	<0.003				
8/17/2023		<0.003							
2/20/2024						<0.003	<0.003		<0.003
2/21/2024			<0.003						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
2/22/2024		<0.003		<0.003	<0.003				
2/23/2024	0.0023 (J)							<0.003	
8/20/2024						<0.003	<0.003		<0.003
8/21/2024		<0.003						<0.003	
8/22/2024	<0.003		<0.003						
8/23/2024				0.0013 (J)	<0.003				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	<0.003
7/27/2016	
7/28/2016	<0.003
9/16/2016	
9/19/2016	0.001 (J)
11/2/2016	
11/3/2016	<0.003
1/11/2017	
1/13/2017	<0.003
3/1/2017	
3/2/2017	
3/6/2017	0.0005 (J)
4/26/2017	<0.003
5/2/2017	
6/28/2017	
6/29/2017	<0.003
3/28/2018	
3/29/2018	<0.003
3/5/2019	0.0011 (J)
3/6/2019	
4/2/2019	0.0011 (J)
4/3/2019	
9/24/2019	0.0035
9/25/2019	
9/26/2019	
2/11/2020	
2/12/2020	0.0015 (J)
3/24/2020	0.0017 (J)
3/25/2020	
9/23/2020	
9/24/2020	0.0047
2/9/2021	0.0013 (J)
3/3/2021	
3/4/2021	0.0014 (J)
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	<0.003
2/9/2022	<0.003
2/10/2022	
8/30/2022	0.0046
8/31/2022	
9/1/2022	
2/7/2023	<0.003
2/8/2023	
2/9/2023	
8/15/2023	<0.003
8/16/2023	
8/17/2023	
2/20/2024	0.0013 (J)
2/21/2024	

Time Series

Constituent: Antimony (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
2/22/2024	
2/23/2024	
8/20/2024	<0.003
8/21/2024	
8/22/2024	
8/23/2024	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.003	<0.003	<0.003				
6/7/2016						<0.003			
7/26/2016			0.0003 (J)	<0.003	<0.003				
7/28/2016						<0.003			
8/30/2016									<0.003
8/31/2016									
9/14/2016			<0.003	<0.003	<0.003				
9/20/2016						<0.003			
11/2/2016			<0.003	<0.003					
11/4/2016					<0.003				
11/8/2016						<0.003			
11/16/2016									<0.003
1/12/2017				<0.003	<0.003				
1/13/2017			<0.003						
1/16/2017						<0.003			
2/24/2017									
2/27/2017									<0.003
3/6/2017			<0.003						
3/7/2017				<0.003	<0.003				
3/9/2017						<0.003			
5/1/2017			<0.003	<0.003					
5/2/2017					<0.003	<0.003			
5/10/2017									<0.003
6/27/2017				<0.003	<0.003				
6/29/2017			<0.003						
7/10/2017						<0.003			
7/11/2017									<0.003
10/11/2017	0.0006 (J)								
10/12/2017		<0.003					<0.003	<0.003	<0.003
11/20/2017	<0.003	<0.003					<0.003		
11/21/2017								<0.003	
1/10/2018		<0.003							
1/11/2018	<0.003							<0.003	
1/12/2018							<0.003		
2/19/2018		<0.003						<0.003	
2/20/2018	<0.003						<0.003		
3/29/2018			<0.003	<0.003	<0.003				
3/30/2018						<0.003			
4/3/2018	<0.003	<0.003					<0.003	<0.003	
4/4/2018									<0.003
6/27/2018								<0.003	
6/28/2018	<0.003	<0.003					<0.003		
8/7/2018	<0.003	<0.003					0.0015 (J)	<0.003	
9/20/2018									<0.003
9/24/2018	<0.003	<0.003					<0.003	<0.003	
3/4/2019			<0.003	<0.003	<0.003				
3/6/2019						<0.003			
4/3/2019			<0.003	<0.003	<0.003				
4/4/2019						<0.003			
8/21/2019	<0.003	<0.003							
8/22/2019							<0.003	<0.003	<0.003
9/24/2019				<0.003	<0.003				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
9/25/2019			<0.003						
9/27/2019						0.00029 (J)			
2/12/2020	<0.003	<0.003	<0.003	<0.003	<0.003				
3/24/2020		<0.003		<0.003	<0.003				
3/25/2020	0.0014 (J)		<0.003				0.00063 (J)	<0.003	<0.003
3/26/2020						<0.003			
9/22/2020			<0.003	<0.003	<0.003				
9/24/2020	<0.003	<0.003				0.00085 (J)			<0.003
9/25/2020							0.00061 (J)	<0.003	
2/8/2021				<0.003	<0.003				
2/9/2021			<0.003			0.00052 (J)	0.00031 (J)		
2/10/2021	<0.003	<0.003						0.0014 (J)	0.00053 (J)
3/2/2021				<0.003	<0.003				
3/3/2021			<0.003						
3/4/2021	<0.003	<0.003				<0.003	<0.003	<0.003	<0.003
8/25/2021						<0.003			<0.003
8/26/2021	<0.003		<0.003	<0.003	<0.003		<0.003	<0.003	
9/3/2021		<0.003							
9/27/2021									
2/8/2022	<0.003	<0.003						<0.003	
2/10/2022				<0.003	<0.003	<0.003	<0.003		<0.003
2/11/2022			<0.003						
8/30/2022				<0.003	<0.003				
8/31/2022	<0.003	<0.003	<0.003						
9/1/2022						<0.003	<0.003	<0.003	<0.003
2/7/2023	<0.003			<0.003					
2/8/2023		<0.003				<0.003	<0.003	<0.003	<0.003
2/9/2023			<0.003		<0.003				
8/15/2023	<0.003	<0.003	<0.003	<0.003	<0.003				
8/16/2023						<0.003	<0.003	<0.003	<0.003
2/20/2024	<0.003	<0.003	0.00061 (J)	<0.003	<0.003				
2/21/2024						<0.003			
2/22/2024							<0.003	<0.003	<0.003
8/20/2024			<0.003	<0.003	<0.003				
8/21/2024	<0.003	<0.003				0.00058 (J)			
8/22/2024									<0.003
8/23/2024							<0.003	<0.003	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	<0.003
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	<0.003
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	<0.003
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	<0.003
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	<0.003
10/11/2017	
10/12/2017	<0.003
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	<0.003
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	<0.003
9/24/2018	
3/4/2019	
3/6/2019	
4/3/2019	
4/4/2019	
8/21/2019	<0.003
8/22/2019	
9/24/2019	

Time Series

Constituent: Antimony (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
9/25/2019	
9/27/2019	
2/12/2020	
3/24/2020	
3/25/2020	0.00031 (J)
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	<0.003
2/8/2021	
2/9/2021	<0.003
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	<0.003
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	<0.003
2/8/2022	<0.003
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	<0.003
2/7/2023	
2/8/2023	<0.003
2/9/2023	
8/15/2023	
8/16/2023	0.0026 (J)
2/20/2024	
2/21/2024	
2/22/2024	<0.003
8/20/2024	
8/21/2024	
8/22/2024	<0.003
8/23/2024	

Time Series

Constituent: Antimony (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/1/2007			<0.003						
9/11/2007			<0.003						
3/20/2008			<0.003						
8/27/2008			<0.003						
3/3/2009			<0.003						
11/18/2009			<0.003						
3/3/2010			<0.003						
9/8/2010			<0.003						
3/10/2011			<0.003						
9/8/2011			<0.003						
3/5/2012			<0.003						
9/10/2012			<0.003						
2/6/2013			<0.003						
8/12/2013			<0.003						
2/5/2014			<0.003						
8/5/2014			<0.003						
2/4/2015			<0.003						
8/3/2015			<0.003						
2/16/2016			<0.003						
6/1/2016					<0.003	<0.003			
6/2/2016				<0.003				<0.003	<0.003
7/25/2016						<0.003		<0.003	
7/26/2016				0.0005 (J)	0.001 (J)				0.002 (J)
8/30/2016		0.0028 (J)							
8/31/2016			<0.003						
9/1/2016	<0.003								
9/13/2016					0.001 (J)	<0.003			
9/14/2016							<0.003		
9/15/2016				<0.003					0.0027 (J)
9/19/2016								<0.003	
11/1/2016					0.0015 (J)			<0.003	<0.003
11/2/2016				<0.003					
11/4/2016						<0.003	<0.003		
11/14/2016		<0.003							
11/15/2016	<0.003								
11/28/2016			0.0014 (J)						
12/15/2016							0.0012 (J)		
1/10/2017				<0.003					
1/11/2017					<0.003				<0.003
1/16/2017						<0.003	<0.003	<0.003	
2/21/2017								<0.003	
2/22/2017			<0.003						
2/24/2017		<0.003							
2/27/2017	0.0011 (J)								
3/1/2017									
3/2/2017					0.0004 (J)	<0.003			0.0008 (J)
3/3/2017							<0.003		
3/8/2017				<0.003					
4/26/2017				<0.003				<0.003	<0.003
4/27/2017					0.0004 (J)	0.0017 (J)			
4/28/2017							0.0015 (J)		
5/8/2017		0.0004 (J)	<0.003						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/9/2017	<0.003								
5/26/2017							0.0005 (J)		
6/27/2017					<0.003	<0.003			
6/28/2017							<0.003		<0.003
6/30/2017				<0.003				<0.003	
7/11/2017		0.0006 (J)							
7/13/2017	<0.003								
7/17/2017			<0.003						
10/10/2017		<0.003							
10/11/2017	<0.003								
10/16/2017			<0.003						
2/19/2018			<0.003						
3/27/2018				<0.003		<0.003		<0.003	
3/28/2018							<0.003		<0.003
3/29/2018					<0.003				
4/2/2018		<0.003							
4/4/2018	<0.003								
8/6/2018			<0.003						
9/19/2018		<0.003							
9/20/2018	<0.003								
2/25/2019			<0.003						
2/26/2019				<0.003				<0.003	
2/27/2019					<0.003	<0.003	<0.003		<0.003
6/12/2019			<0.003						
8/19/2019			<0.003						
8/20/2019		<0.003							
9/26/2019	<0.003								
10/8/2019			<0.003						
2/10/2020					0.00088 (J)	<0.003			
2/11/2020							0.00036 (J)		
2/12/2020				<0.003				<0.003	<0.003
3/17/2020			<0.003						
3/18/2020				<0.003		0.0004 (J)			
3/19/2020					<0.003		0.0003 (J)	<0.003	0.00064 (J)
3/25/2020	0.00053 (J)								
8/26/2020			0.00042 (J)						
8/27/2020		0.00048 (J)							
9/22/2020		<0.003	0.00044 (J)						
9/23/2020					<0.003	<0.003	<0.003		<0.003
9/24/2020	<0.003							<0.003	
9/25/2020				<0.003					
2/9/2021	<0.003								
2/10/2021				<0.003			0.0013 (J)		<0.003
2/11/2021								<0.003	
2/12/2021					<0.003	<0.003			
3/1/2021		0.00048 (J)						<0.003	
3/2/2021			<0.003	<0.003					
3/3/2021					<0.003	<0.003	<0.003		<0.003
3/4/2021	<0.003								
8/19/2021		<0.003		<0.003	<0.003	<0.003		<0.003	<0.003
8/20/2021			<0.003						
8/27/2021							<0.003		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
9/1/2021	<0.003								
2/8/2022	<0.003	<0.003	<0.003						
2/9/2022					<0.003	<0.003	<0.003		0.0018 (J)
2/10/2022				<0.003					
2/11/2022								<0.003	
8/30/2022			<0.003		<0.003		<0.003		
8/31/2022	<0.003	<0.003		<0.003		<0.003		<0.003	<0.003
2/7/2023			<0.003		<0.003	<0.003	<0.003		
2/8/2023		<0.003		<0.003				<0.003	<0.003
2/9/2023	<0.003								
8/15/2023		<0.003	<0.003	<0.003	<0.003	<0.003	<0.003		<0.003
8/16/2023	<0.003							<0.003	
2/20/2024		<0.003	0.0026 (J)		0.0023 (J)	<0.003	0.00067 (J)	<0.003	<0.003
2/21/2024	<0.003								
2/23/2024				<0.003					
8/20/2024		<0.003		<0.003	0.00088 (J)	<0.003	<0.003	<0.003	<0.003
8/22/2024	<0.003								

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/1/2007	
9/11/2007	
3/20/2008	
8/27/2008	
3/3/2009	
11/18/2009	
3/3/2010	
9/8/2010	
3/10/2011	
9/8/2011	
3/5/2012	
9/10/2012	
2/6/2013	
8/12/2013	
2/5/2014	
8/5/2014	
2/4/2015	
8/3/2015	
2/16/2016	
6/1/2016	<0.003
6/2/2016	
7/25/2016	<0.003
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	<0.003
9/15/2016	
9/19/2016	
11/1/2016	<0.003
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	<0.003
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	<0.003
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	<0.003
4/27/2017	
4/28/2017	
5/8/2017	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	<0.003
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	<0.003
3/29/2018	
4/2/2018	
4/4/2018	
8/6/2018	
9/19/2018	
9/20/2018	
2/25/2019	
2/26/2019	
2/27/2019	<0.003
6/12/2019	
8/19/2019	
8/20/2019	
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	<0.003
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	<0.003
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	<0.003
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	<0.003
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	<0.003
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
9/1/2021	
2/8/2022	
2/9/2022	<0.003
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	<0.003
2/7/2023	
2/8/2023	<0.003
2/9/2023	
8/15/2023	
8/16/2023	<0.003
2/20/2024	<0.003
2/21/2024	
2/23/2024	
8/20/2024	<0.003
8/22/2024	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50	PZ-54D
6/8/2016							<0.003		
8/1/2016							<0.003		
9/2/2016			<0.003						
9/20/2016							0.0009 (J)		
11/8/2016							<0.003		
11/14/2016			0.0014 (J)						
1/17/2017							<0.003		
2/28/2017			0.0004 (J)						
3/8/2017							<0.003		
5/2/2017							<0.003		
5/9/2017			<0.003						
7/7/2017							<0.003		
7/13/2017			<0.003						
9/22/2017			<0.003						
9/29/2017			<0.003						
10/6/2017			<0.003						
10/12/2017		<0.003							
11/21/2017		<0.003							
1/11/2018		<0.003							
2/20/2018		<0.003							
3/30/2018			<0.003				<0.003		
4/3/2018		<0.003							
6/29/2018		<0.003							
8/6/2018		<0.003							
9/24/2018		<0.003							
3/5/2019							<0.003		
3/6/2019			0.0011 (J)						
4/4/2019			0.0041				<0.003		
9/26/2019	<0.003		0.0065				<0.003		
3/25/2020	<0.003		0.0011 (J)						
3/26/2020							<0.003		
9/23/2020							<0.003		
9/24/2020	<0.003								
9/25/2020		0.0014 (J)							
10/7/2020			<0.003						
2/9/2021		0.00035 (J)					<0.003		
2/10/2021	<0.003		0.028						
3/3/2021							<0.003		
3/4/2021	0.00039 (J)	<0.003	0.0015 (J)						
8/25/2021		<0.003							
9/1/2021	<0.003						<0.003		
9/3/2021			0.0016 (J)	<0.003					
2/10/2022	<0.003	<0.003				<0.003	<0.003		
2/11/2022			0.0023 (J)	<0.003	<0.003				
8/31/2022	<0.003								
9/1/2022		0.00091 (J)	<0.003	<0.003	<0.003	<0.003			
2/8/2023		<0.003		0.0015 (J)	<0.003				
2/9/2023	<0.003		<0.003			<0.003			
2/10/2023							<0.003		
8/16/2023	<0.003		<0.003	<0.003		<0.003	<0.003		
8/17/2023		<0.003			<0.003			<0.003	
12/20/2023								<0.003	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50	PZ-54D
2/21/2024		<0.003		<0.003	<0.003				
2/22/2024						<0.003		0.00076 (J)	
2/23/2024	<0.003		<0.003				<0.003		
6/10/2024								0.0034	
6/12/2024									0.0013 (J)
8/21/2024		0.0085		0.0013 (J)	0.00081 (J)				
8/22/2024	<0.003		0.0012 (J)			<0.003	<0.003		
8/23/2024								0.00078 (J)	
11/7/2024									0.00082 (J)
11/26/2024								0.00092 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							<0.005	<0.005	
6/7/2016						<0.005			<0.005
7/27/2016						<0.005	<0.005	<0.005	<0.005
7/28/2016									
9/16/2016						<0.005		<0.005	
9/19/2016							<0.005		<0.005
11/2/2016									<0.005
11/3/2016						<0.005	<0.005	<0.005	
1/11/2017						<0.005	<0.005	<0.005	
1/13/2017									<0.005
3/1/2017							<0.005	<0.005	
3/2/2017						<0.005			
3/6/2017									<0.005
4/26/2017							<0.005	<0.005	<0.005
5/2/2017						<0.005			
6/28/2017							<0.005	<0.005	
6/29/2017						<0.005			<0.005
3/28/2018						<0.005	<0.005	0.00061 (J)	
3/29/2018									<0.005
6/5/2018									
6/6/2018									<0.005
6/7/2018							0.00066 (J)		
6/11/2018						<0.005		<0.005	
9/25/2018						<0.005	<0.005	<0.005	<0.005
10/16/2018	<0.005								
3/5/2019						<0.005		<0.005	<0.005
3/6/2019							<0.005		
4/2/2019						<0.005			
4/3/2019							<0.005	<0.005	<0.005
9/24/2019									
9/25/2019						<0.005			<0.005
9/26/2019	<0.005						<0.005	<0.005	
2/11/2020						0.0022 (J)	0.0014 (J)	0.0026 (J)	
2/12/2020									<0.005
3/24/2020						<0.005	<0.005	<0.005	<0.005
3/25/2020	<0.005								
9/23/2020		<0.005		<0.005		<0.005	<0.005	<0.005	
9/24/2020	<0.005				0.0015 (J)				<0.005
2/9/2021	<0.005	<0.005		0.001 (J)	0.00095 (J)		<0.005	<0.005	<0.005
3/3/2021	<0.005	<0.005		0.00079 (J)		<0.005	<0.005	<0.005	<0.005
3/4/2021					<0.005				
8/25/2021				<0.005					
8/26/2021					<0.005			<0.005	
8/27/2021						<0.005	<0.005		<0.005
9/1/2021	<0.005	<0.005							
2/9/2022						0.0024 (J)	0.0022 (J)	0.0024 (J)	0.0021 (J)
2/10/2022	0.0023 (J)	<0.005	0.0038 (J)	0.0026 (J)	0.0024 (J)				
8/30/2022						<0.005	<0.005	<0.005	
8/31/2022	<0.005								<0.005
9/1/2022		<0.005	<0.005	<0.005	<0.005				
2/7/2023						<0.005	<0.005	<0.005	<0.005
2/8/2023		<0.005		0.0037 (J)	0.0038 (J)				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
2/9/2023	0.0034 (J)		<0.005						
8/15/2023						<0.005	<0.005	<0.005	<0.005
8/16/2023	<0.005		<0.005	<0.005	<0.005				
8/17/2023		<0.005							
2/20/2024						<0.005	<0.005		<0.005
2/21/2024			0.0015 (J)						
2/22/2024		<0.005		0.001 (J)	0.0011 (J)				
2/23/2024	<0.005							<0.005	
8/20/2024						<0.005	<0.005		<0.005
8/21/2024		<0.005						<0.005	
8/22/2024	0.00093 (J)		0.0022 (J)						
8/23/2024				0.0024 (J)	0.0025 (J)				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	<0.005
7/27/2016	
7/28/2016	<0.005
9/16/2016	
9/19/2016	<0.005
11/2/2016	
11/3/2016	<0.005
1/11/2017	
1/13/2017	<0.005
3/1/2017	
3/2/2017	
3/6/2017	0.0017 (J)
4/26/2017	<0.005
5/2/2017	
6/28/2017	
6/29/2017	<0.005
3/28/2018	
3/29/2018	0.0015 (J)
6/5/2018	0.0013 (J)
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	0.0022 (J)
10/16/2018	
3/5/2019	0.0013 (J)
3/6/2019	
4/2/2019	0.00096 (J)
4/3/2019	
9/24/2019	0.0026 (J)
9/25/2019	
9/26/2019	
2/11/2020	
2/12/2020	0.0025 (J)
3/24/2020	0.0013 (J)
3/25/2020	
9/23/2020	
9/24/2020	0.0014 (J)
2/9/2021	0.001 (J)
3/3/2021	
3/4/2021	0.00078 (J)
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	<0.005
2/9/2022	0.0036 (J)
2/10/2022	
8/30/2022	0.0022 (J)
8/31/2022	
9/1/2022	
2/7/2023	0.0028 (J)
2/8/2023	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
2/9/2023	
8/15/2023	<0.005
8/16/2023	
8/17/2023	
2/20/2024	<0.005
2/21/2024	
2/22/2024	
2/23/2024	
8/20/2024	<0.005
8/21/2024	
8/22/2024	
8/23/2024	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.005	0.00071 (J)	<0.005				
6/7/2016						<0.005			
7/26/2016			<0.005	0.001 (J)	<0.005				
7/28/2016						<0.005			
8/30/2016									0.0023 (J)
8/31/2016									
9/14/2016			<0.005	<0.005	<0.005				
9/20/2016						<0.005			
11/2/2016			<0.005	<0.005					
11/4/2016					<0.005				
11/8/2016						<0.005			
11/16/2016									0.0017 (J)
1/12/2017				<0.005	<0.005				
1/13/2017			<0.005						
1/16/2017						<0.005			
2/24/2017									
2/27/2017									0.002 (J)
3/6/2017			<0.005						
3/7/2017				0.0012 (J)	<0.005				
3/9/2017						<0.005			
5/1/2017			<0.005	<0.005					
5/2/2017					<0.005	<0.005			
5/10/2017									0.0022 (J)
6/27/2017				0.0019 (J)	<0.005				
6/29/2017			<0.005						
7/10/2017						<0.005			
7/11/2017									0.003 (J)
10/11/2017	0.0009 (J)								
10/12/2017		<0.005					0.0023 (J)	0.0011 (J)	0.0031 (J)
11/20/2017	<0.005	<0.005					0.0008 (J)		
11/21/2017								<0.005	
1/10/2018		<0.005							
1/11/2018	<0.005							<0.005	
1/12/2018							0.001 (J)		
2/19/2018		<0.005						<0.005	
2/20/2018	<0.005						0.00096 (J)		
3/29/2018			<0.005	0.0006 (J)	<0.005				
3/30/2018						<0.005			
4/3/2018	<0.005	<0.005					0.0015 (J)	0.00072 (J)	
4/4/2018									0.0023 (J)
6/6/2018				0.0013 (J)					
6/7/2018			0.00059 (J)		<0.005				
6/12/2018						<0.005			
6/27/2018								0.00062 (J)	
6/28/2018	<0.005	<0.005					0.0017 (J)		
8/7/2018	<0.005	<0.005					0.00072 (J)	<0.005	
9/20/2018									0.0018 (J)
9/24/2018	<0.005	<0.005					0.0017 (J)	0.001 (J)	
9/26/2018			<0.005	0.0014 (J)	<0.005				
9/27/2018						<0.005			
3/4/2019			<0.005	<0.005	<0.005				
3/6/2019						<0.005			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
4/3/2019			<0.005	<0.005	<0.005				
4/4/2019						<0.005			
8/21/2019	0.00058 (J)	<0.005							
8/22/2019							0.00055 (J)	0.00036 (J)	0.00089 (J)
9/24/2019				0.00043 (J)	<0.005				
9/25/2019			<0.005						
9/27/2019						<0.005			
10/9/2019	0.00063 (J)	<0.005					0.00057 (J)	0.00052 (J)	0.00078 (J)
2/12/2020	0.00058 (J)	0.0034 (J)	<0.005	0.0046 (J)	0.002 (J)				
3/24/2020		<0.005		0.00065 (J)	<0.005				
3/25/2020	0.0012 (J)		<0.005				0.00068 (J)	0.001 (J)	0.0013 (J)
3/26/2020						0.0012 (J)			
9/22/2020			<0.005	0.001 (J)	<0.005				
9/24/2020	<0.005	<0.005				<0.005			<0.005
9/25/2020							<0.005	<0.005	
2/8/2021				<0.005	<0.005				
2/9/2021			<0.005			<0.005	0.00098 (J)		
2/10/2021	<0.005	<0.005						<0.005	0.0016 (J)
3/2/2021				<0.005	<0.005				
3/3/2021			<0.005						
3/4/2021	<0.005	<0.005				<0.005	<0.005	<0.005	<0.005
8/25/2021						<0.005			0.0014 (J)
8/26/2021	<0.005		<0.005	0.0016 (J)	<0.005		0.0013 (J)	<0.005	
9/3/2021		<0.005							
9/27/2021									
2/8/2022	0.0034 (J)	0.003 (J)						0.0021 (J)	
2/10/2022				0.004 (J)	0.0016 (J)	0.0025 (J)	0.0017 (J)		0.0026 (J)
2/11/2022			0.0014 (J)						
8/30/2022				0.0031 (J)	<0.005				
8/31/2022	0.0029 (J)	<0.005	<0.005						
9/1/2022						<0.005	<0.005	<0.005	<0.005
2/7/2023	0.0029 (J)			0.003 (J)					
2/8/2023		<0.005				<0.005	<0.005	0.0027 (J)	0.0025 (J)
2/9/2023			<0.005		<0.005				
8/15/2023	<0.005	<0.005	<0.005	<0.005	<0.005				
8/16/2023						<0.005	<0.005	<0.005	<0.005
2/20/2024	0.002 (J)	0.0012 (J)	<0.005	0.003 (J)	<0.005				
2/21/2024						<0.005			
2/22/2024							<0.005	<0.005	0.0014 (J)
8/20/2024			<0.005	0.0012 (J)	<0.005				
8/21/2024	0.0027 (J)	0.0014 (J)				<0.005			
8/22/2024									0.0021 (J)
8/23/2024							<0.005	<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	<0.005
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	<0.005
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	<0.005
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	<0.005
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	<0.005
10/11/2017	
10/12/2017	<0.005
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	<0.005
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	0.00099 (J)
9/24/2018	
9/26/2018	
9/27/2018	
3/4/2019	
3/6/2019	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
4/3/2019	
4/4/2019	
8/21/2019	<0.005
8/22/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	0.00051 (J)
2/12/2020	
3/24/2020	
3/25/2020	0.0007 (J)
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	<0.005
2/8/2021	
2/9/2021	<0.005
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	<0.005
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	<0.005
2/8/2022	0.0022 (J)
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	<0.005
2/7/2023	
2/8/2023	0.0033 (J)
2/9/2023	
8/15/2023	
8/16/2023	<0.005
2/20/2024	
2/21/2024	
2/22/2024	<0.005
8/20/2024	
8/21/2024	
8/22/2024	0.00095 (J)
8/23/2024	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/1/2007			<0.005						
9/11/2007			<0.005						
3/20/2008			<0.005						
8/27/2008			<0.005						
3/3/2009			<0.005						
11/18/2009			<0.005						
3/3/2010			<0.005						
9/8/2010			<0.005						
3/10/2011			<0.005						
9/8/2011			<0.005						
3/5/2012			<0.005						
9/10/2012			<0.005						
2/6/2013			<0.005						
8/12/2013			<0.005						
2/5/2014			<0.005						
8/5/2014			<0.005						
2/4/2015			<0.005						
8/3/2015			<0.005						
2/16/2016			<0.005						
6/1/2016					0.0021	<0.005			
6/2/2016				<0.005				<0.005	<0.005
7/25/2016						<0.005		<0.005	
7/26/2016				<0.005	0.0016 (J)				<0.005
8/30/2016		<0.005							
8/31/2016			<0.005						
9/1/2016	<0.005								
9/13/2016					<0.005	<0.005			
9/14/2016							<0.005		
9/15/2016				<0.005					<0.005
9/19/2016								<0.005	
11/1/2016					<0.005			<0.005	<0.005
11/2/2016				<0.005					
11/4/2016						<0.005	0.0017 (J)		
11/14/2016		<0.005							
11/15/2016	<0.005								
11/28/2016			<0.005						
12/15/2016							0.0023 (J)		
1/10/2017				<0.005					
1/11/2017					0.0017 (J)				<0.005
1/16/2017						<0.005	0.0018 (J)	<0.005	
2/21/2017								<0.005	
2/22/2017			<0.005						
2/24/2017		<0.005							
2/27/2017	<0.005								
3/1/2017									
3/2/2017					0.0014 (J)	<0.005			<0.005
3/3/2017							0.0016 (J)		
3/8/2017				<0.005					
4/26/2017				<0.005				<0.005	<0.005
4/27/2017					0.0018 (J)	<0.005			
4/28/2017							0.002 (J)		
5/8/2017		<0.005	<0.005						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/9/2017	<0.005								
5/26/2017							0.0005 (J)		
6/27/2017					0.0018 (J)	<0.005			
6/28/2017							0.0016 (J)		0.0007 (J)
6/30/2017				<0.005				<0.005	
7/11/2017		<0.005							
7/13/2017	<0.005								
7/17/2017			<0.005						
10/10/2017		0.0007 (J)							
10/11/2017	0.0006 (J)								
10/16/2017			<0.005						
2/19/2018			<0.005						
3/27/2018				<0.005		<0.005		<0.005	
3/28/2018							0.0013 (J)		<0.005
3/29/2018					0.0017 (J)				
4/2/2018		<0.005							
4/4/2018	<0.005								
6/5/2018					0.0013 (J)				
6/6/2018						<0.005			
6/7/2018							0.00082 (J)		<0.005
6/8/2018				<0.005					
6/11/2018								<0.005	
8/6/2018			<0.005						
9/19/2018		0.00072 (J)							
9/20/2018	0.001 (J)								
10/1/2018				<0.005	0.0016 (J)	<0.005	0.0011 (J)		<0.005
10/2/2018								<0.005	
2/25/2019			<0.005						
2/26/2019				<0.005				<0.005	
2/27/2019					0.0015 (J)	<0.005	0.001 (J)		<0.005
3/28/2019					0.00072 (J)	<0.005			
3/29/2019				<0.005			0.00063 (J)		
4/1/2019								<0.005	<0.005
6/12/2019			0.00038 (J)						
8/19/2019			0.00095 (J)						
8/20/2019		<0.005							
9/24/2019					0.0014 (J)	<0.005	<0.005		
9/25/2019				<0.005				<0.005	<0.005
9/26/2019	<0.005								
10/8/2019		<0.005	<0.005						
2/10/2020					0.0026 (J)	0.0005 (J)			
2/11/2020							0.0044 (J)		
2/12/2020				<0.005				0.0032 (J)	0.0038 (J)
3/17/2020		<0.005	<0.005						
3/18/2020				<0.005		<0.005			
3/19/2020					0.00095 (J)		0.00066 (J)	<0.005	<0.005
3/25/2020	0.00086 (J)								
8/26/2020			<0.005						
8/27/2020		<0.005							
9/22/2020		<0.005	<0.005						
9/23/2020					0.0011 (J)	<0.005	0.001 (J)		<0.005
9/24/2020	<0.005							<0.005	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
9/25/2020				<0.005					
2/9/2021	<0.005								
2/10/2021				<0.005			<0.005		0.00094 (J)
2/11/2021								<0.005	
2/12/2021					<0.005	<0.005			
3/1/2021		<0.005						<0.005	
3/2/2021			<0.005	<0.005					
3/3/2021					<0.005	<0.005	0.00098 (J)		<0.005
3/4/2021	<0.005								
8/19/2021		<0.005		<0.005	<0.005	<0.005		<0.005	<0.005
8/20/2021			<0.005						
8/27/2021							<0.005		
9/1/2021	<0.005								
2/8/2022	<0.005	0.0027 (J)	0.0033 (J)						
2/9/2022					0.0031 (J)	0.0033 (J)	0.0037 (J)		0.002 (J)
2/10/2022				0.0016 (J)					
2/11/2022								0.0014 (J)	
8/30/2022			0.0024 (J)		<0.005		0.0027 (J)		
8/31/2022	<0.005	<0.005		<0.005		<0.005		<0.005	0.0028 (J)
2/7/2023			<0.005		<0.005	<0.005	<0.005		
2/8/2023		<0.005		<0.005				<0.005	0.003 (J)
2/9/2023	<0.005								
8/15/2023		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005
8/16/2023	<0.005							<0.005	
2/20/2024		<0.005	0.0015 (J)		<0.005	<0.005	0.0019 (J)	<0.005	0.0027 (J)
2/21/2024	<0.005								
2/23/2024				<0.005					
8/20/2024		<0.005		<0.005	0.00099 (J)	<0.005	<0.005	<0.005	<0.005
8/22/2024	<0.005								

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/1/2007	
9/11/2007	
3/20/2008	
8/27/2008	
3/3/2009	
11/18/2009	
3/3/2010	
9/8/2010	
3/10/2011	
9/8/2011	
3/5/2012	
9/10/2012	
2/6/2013	
8/12/2013	
2/5/2014	
8/5/2014	
2/4/2015	
8/3/2015	
2/16/2016	
6/1/2016	<0.005
6/2/2016	
7/25/2016	<0.005
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	<0.005
9/15/2016	
9/19/2016	
11/1/2016	<0.005
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	<0.005
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	0.0004 (J)
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	<0.005
4/27/2017	
4/28/2017	
5/8/2017	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	0.0011 (J)
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	<0.005
3/29/2018	
4/2/2018	
4/4/2018	
6/5/2018	
6/6/2018	
6/7/2018	
6/8/2018	<0.005
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	<0.005
10/2/2018	
2/25/2019	
2/26/2019	
2/27/2019	<0.005
3/28/2019	
3/29/2019	
4/1/2019	<0.005
6/12/2019	
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	<0.005
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	0.0041 (J)
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	<0.005
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	<0.005
9/24/2020	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
9/25/2020	
2/9/2021	
2/10/2021	0.00078 (J)
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	<0.005
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	<0.005
9/1/2021	
2/8/2022	
2/9/2022	0.0018 (J)
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	<0.005
2/7/2023	
2/8/2023	0.0024 (J)
2/9/2023	
8/15/2023	
8/16/2023	<0.005
2/20/2024	0.0013 (J)
2/21/2024	
2/23/2024	
8/20/2024	<0.005
8/22/2024	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50	PZ-54D
6/8/2016							<0.005		
8/1/2016							<0.005		
9/2/2016			<0.005						
9/20/2016							<0.005		
11/8/2016							<0.005		
11/14/2016			<0.005						
1/17/2017							<0.005		
2/28/2017			0.0006 (J)						
3/8/2017							<0.005		
5/2/2017							<0.005		
5/9/2017			0.0006 (J)						
7/7/2017							<0.005		
7/13/2017			<0.005						
9/22/2017			<0.005						
9/29/2017			<0.005						
10/6/2017			<0.005						
10/12/2017		0.0014 (J)							
11/21/2017		0.0008 (J)							
1/11/2018		0.0006 (J)							
2/20/2018		<0.005							
3/30/2018			<0.005				<0.005		
4/3/2018		0.0012 (J)							
6/12/2018							<0.005		
6/13/2018			0.00066 (J)						
6/29/2018		0.0011 (J)							
8/6/2018		<0.005							
9/24/2018		0.00094 (J)							
9/26/2018			<0.005				<0.005		
10/16/2018	0.00069 (J)								
3/5/2019							<0.005		
3/6/2019			<0.005						
4/4/2019			<0.005				<0.005		
9/26/2019	<0.005		<0.005				<0.005		
3/25/2020	<0.005		<0.005						
3/26/2020							0.0015 (J)		
9/23/2020							<0.005		
9/24/2020	<0.005								
9/25/2020		<0.005							
10/7/2020			<0.005						
2/9/2021		0.0015 (J)					<0.005		
2/10/2021	0.00096 (J)		0.00088 (J)						
3/3/2021							<0.005		
3/4/2021	<0.005	<0.005	<0.005						
8/25/2021		0.0014 (J)							
9/1/2021	<0.005						<0.005		
9/3/2021			<0.005	<0.005					
2/10/2022	0.0018 (J)	0.0017 (J)				0.0013 (J)	0.0024 (J)		
2/11/2022			0.0014 (J)	<0.005	0.0014 (J)				
8/31/2022	<0.005								
9/1/2022		<0.005	<0.005	<0.005	<0.005	<0.005			
2/8/2023		<0.005		<0.005	0.0032 (J)				
2/9/2023	0.0028 (J)		0.0047 (J)			<0.005			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50	PZ-54D
2/10/2023							0.0035 (J)		
8/16/2023	<0.005		<0.005	<0.005		<0.005	<0.005		
8/17/2023		<0.005			<0.005			<0.005	
12/20/2023								0.0019 (J)	
2/21/2024		0.0023 (J)		0.0014 (J)	0.0013 (J)				
2/22/2024						<0.005		0.0016 (J)	
2/23/2024	<0.005		<0.005				<0.005		
6/10/2024								0.0014 (J)	
6/12/2024									0.012
8/21/2024		0.0037 (J)		0.0038 (J)	0.0055				
8/22/2024	0.0014 (J)		<0.005			0.0017 (J)	<0.005		
8/23/2024								0.0044 (J)	
11/7/2024									0.0015 (J)
11/26/2024								0.0045 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							0.028	0.019	
6/7/2016						0.012			0.014
7/27/2016						0.0126	0.0294	0.0167	0.0141
7/28/2016									
9/16/2016						0.0127		0.0168	
9/19/2016							0.0247		0.0155
11/2/2016									0.0157
11/3/2016						0.0128	0.0248	0.0159	
1/11/2017						0.0142	0.0266	0.0162	
1/13/2017									0.0158
3/1/2017							0.0275	0.0195	
3/2/2017						0.0155			
3/6/2017									0.0163
4/26/2017							0.024	0.0182	0.0177
5/2/2017						0.0138			
6/28/2017							0.0237	0.018	
6/29/2017						0.0128			0.017
3/28/2018						0.014	0.024	0.021	
3/29/2018									0.014
6/5/2018									
6/6/2018									0.015
6/7/2018							0.023		
6/11/2018						0.013		0.019	
9/25/2018						0.014	0.023	0.019	0.015
10/16/2018	0.048								
3/5/2019						0.015		0.02	0.016
3/6/2019							0.024		
4/2/2019						0.016			
4/3/2019							0.025	0.017	0.018
9/24/2019									
9/25/2019						0.015			0.014
9/26/2019	0.047						0.021	0.017	
2/11/2020						0.015	0.022	0.019	
2/12/2020									0.014
3/24/2020						0.015	0.021	0.017	0.015
3/25/2020	0.04								
9/23/2020		0.0092 (J)		0.0063 (J)		0.015	0.021	0.016	
9/24/2020	0.028				0.057				0.015
2/9/2021	0.039	0.0085 (J)		0.02	0.042		0.023	0.017	0.015
3/3/2021	0.035	0.0082		0.021		0.017	0.023	0.017	0.015
3/4/2021					0.039				
8/25/2021				0.0037 (J)					
8/26/2021					0.036			0.015	
8/27/2021						0.016	0.02		0.013
9/1/2021	0.075	0.0072							
2/9/2022						0.017	0.021	0.014	0.014
2/10/2022	0.084	0.0074	0.038	0.0033 (J)	0.034				
8/30/2022						0.017	0.017	0.012	
8/31/2022	0.085								0.011
9/1/2022		0.0092	0.024	0.003 (J)	0.034				
2/7/2023						0.017	0.019	0.012	0.014
2/8/2023		0.0064		0.003 (J)	0.039				

Time Series

Constituent: Barium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
2/9/2023	0.078		0.045						
8/15/2023						0.016	0.02	0.012	0.012
8/16/2023	0.092		0.026	0.0031 (J)	0.036				
8/17/2023		0.0092							
2/20/2024						0.017	0.02		0.013
2/21/2024			0.032						
2/22/2024		0.0068		0.003 (J)	0.035				
2/23/2024	0.087							0.013	
8/20/2024						0.016	0.019		0.012
8/21/2024		0.0089						0.015	
8/22/2024	0.086		0.031						
8/23/2024				0.0031 (J)	0.035				

Time Series

Constituent: Barium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	0.0058
7/27/2016	
7/28/2016	0.0068 (J)
9/16/2016	
9/19/2016	0.0071 (J)
11/2/2016	
11/3/2016	0.0092 (J)
1/11/2017	
1/13/2017	0.0105
3/1/2017	
3/2/2017	
3/6/2017	0.0105
4/26/2017	0.011
5/2/2017	
6/28/2017	
6/29/2017	0.0109
3/28/2018	
3/29/2018	<0.01
6/5/2018	0.011
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	0.011
10/16/2018	
3/5/2019	0.011
3/6/2019	
4/2/2019	0.011
4/3/2019	
9/24/2019	0.011
9/25/2019	
9/26/2019	
2/11/2020	
2/12/2020	0.011
3/24/2020	0.011
3/25/2020	
9/23/2020	
9/24/2020	0.01
2/9/2021	0.011
3/3/2021	
3/4/2021	0.011
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	0.0099
2/9/2022	0.011
2/10/2022	
8/30/2022	0.0085
8/31/2022	
9/1/2022	
2/7/2023	0.01
2/8/2023	

Time Series

Constituent: Barium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
2/9/2023	
8/15/2023	0.0075
8/16/2023	
8/17/2023	
2/20/2024	0.0065
2/21/2024	
2/22/2024	
2/23/2024	
8/20/2024	0.0083
8/21/2024	
8/22/2024	
8/23/2024	

Time Series

Constituent: Barium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			0.013	0.0084	0.019				
6/7/2016						0.045			
7/26/2016			0.0158	0.01	0.0179				
7/28/2016						0.0511			
8/30/2016									0.0455
8/31/2016									
9/14/2016			0.0143	0.0085 (J)	0.0181				
9/20/2016						0.0561			
11/2/2016			0.0148	0.0091 (J)					
11/4/2016					0.0165				
11/8/2016						0.054			
11/16/2016									0.0541
1/12/2017				0.0089 (J)	0.0199				
1/13/2017			0.0146						
1/16/2017						0.0528			
2/24/2017									
2/27/2017									0.0573
3/6/2017			0.0141						
3/7/2017				0.009 (J)	0.0196				
3/9/2017						0.0469			
5/1/2017			0.0149	0.0083 (J)					
5/2/2017					0.0202	0.0427			
5/10/2017									0.0517
6/27/2017				0.0074 (J)	0.0184				
6/29/2017			0.0154						
7/10/2017						0.0395			
7/11/2017									0.0451
10/11/2017	0.0092 (J)								
10/12/2017		0.0328					0.0269	0.0394	0.0429
11/20/2017	0.0081 (J)	0.0671					0.0255		
11/21/2017								0.032	
1/10/2018		0.0656							
1/11/2018	0.0077 (J)							0.03	
1/12/2018							0.0236		
2/19/2018		0.0598						0.0308	
2/20/2018	<0.01						0.0255		
3/29/2018			0.014	<0.01	0.021				
3/30/2018						0.03			
4/3/2018	<0.01	0.045					0.023	0.03	
4/4/2018									0.041
6/6/2018				0.008 (J)					
6/7/2018			0.014		0.019				
6/12/2018						0.024			
6/27/2018								0.028	
6/28/2018	0.0078 (J)	0.047					0.024		
8/7/2018	0.0078 (J)	0.048					0.023	0.027	
9/20/2018									0.038
9/24/2018	0.0071 (J)	0.042					0.021	0.026	
9/26/2018			0.02	0.0075 (J)	0.019				
9/27/2018						0.022			
3/4/2019			0.016	0.0077 (J)	0.019				
3/6/2019						0.019			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
4/3/2019			0.017	0.0087 (J)	0.023				
4/4/2019						0.019			
8/21/2019	0.015	0.035							
8/22/2019							0.019	0.021	0.031
9/24/2019				0.0075 (J)	0.019				
9/25/2019			0.015						
9/27/2019						0.018			
10/9/2019	0.013	0.036					0.019	0.021	0.027
2/12/2020	0.011	0.035	0.012	0.0079 (J)	0.021				
3/24/2020		0.033		0.0076 (J)	0.021				
3/25/2020	0.014		0.016				0.018	0.021	0.03
3/26/2020						0.027			
9/22/2020			0.013	0.0076 (J)	0.019				
9/24/2020	0.016	0.028				0.035			0.026
9/25/2020							0.015	0.016	
2/8/2021				0.0079 (J)	0.02				
2/9/2021			0.013			0.042	0.016		
2/10/2021	0.027	0.032						0.017	0.031
3/2/2021				0.014	0.019				
3/3/2021			0.014						
3/4/2021	0.028	0.032				0.043	0.016	0.017	0.03
8/25/2021						0.049			0.027
8/26/2021	0.038		0.012	0.0092	0.019		0.016	0.018	
9/3/2021		0.035							
9/27/2021									
2/8/2022	0.041	0.039						0.021	
2/10/2022				0.0084	0.02	0.058	0.016		0.026
2/11/2022			0.013						
8/30/2022				0.0079	0.017				
8/31/2022	0.035	0.035	0.013						
9/1/2022						0.053	0.014	0.019	0.023
2/7/2023	0.03			0.0075					
2/8/2023		0.037				0.053	0.016	0.022	0.023
2/9/2023			0.014		0.019				
8/15/2023	0.031	0.034	0.011	0.0074	0.018				
8/16/2023						0.052	0.015	0.02	0.024
2/20/2024	0.029	0.033	0.014	0.0078	0.019				
2/21/2024						0.053			
2/22/2024							0.015	0.019	0.021
8/20/2024			0.012	0.0066	0.018				
8/21/2024	0.03	0.033				0.057			
8/22/2024									0.022
8/23/2024							0.016	0.019	

Time Series

Constituent: Barium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	0.0065 (J)
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	0.0092 (J)
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	0.0144
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	0.0173
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	0.0183
10/11/2017	
10/12/2017	0.0205
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	0.024
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	0.035
9/24/2018	
9/26/2018	
9/27/2018	
3/4/2019	
3/6/2019	

Time Series

Constituent: Barium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
4/3/2019	
4/4/2019	
8/21/2019	0.03
8/22/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	0.04
2/12/2020	
3/24/2020	
3/25/2020	0.033
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	0.046
2/8/2021	
2/9/2021	0.041
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	0.039
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	0.0097
2/8/2022	0.029
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	0.029
2/7/2023	
2/8/2023	0.031
2/9/2023	
8/15/2023	
8/16/2023	0.029
2/20/2024	
2/21/2024	
2/22/2024	0.028
8/20/2024	
8/21/2024	
8/22/2024	0.035
8/23/2024	

Time Series

Constituent: Barium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/1/2007			0.032						
9/11/2007			0.017						
3/20/2008			0.025						
8/27/2008			0.041						
3/3/2009			0.053						
11/18/2009			0.05						
3/3/2010			0.061						
9/8/2010			0.071						
3/10/2011			0.057						
9/8/2011			0.057						
3/5/2012			0.061						
9/10/2012			0.055						
2/6/2013			0.061						
8/12/2013			0.055						
2/5/2014			0.063						
8/5/2014			0.038						
2/4/2015			0.039						
8/3/2015			0.031						
2/16/2016			0.045						
6/1/2016					0.008	0.012			
6/2/2016				0.0081				0.0064	0.01
7/25/2016						0.0091 (J)		0.0071 (J)	
7/26/2016				0.0082 (J)	0.006 (J)				0.0088 (J)
8/30/2016		0.0413							
8/31/2016			0.0542						
9/1/2016	0.077								
9/13/2016					0.0084 (J)	0.008 (J)			
9/14/2016							0.0037 (J)		
9/15/2016				0.0087 (J)					0.009 (J)
9/19/2016								0.0069 (J)	
11/1/2016					0.0062 (J)			0.007 (J)	0.0079 (J)
11/2/2016				0.0082 (J)					
11/4/2016						0.0067 (J)	0.0059 (J)		
11/14/2016		0.0383							
11/15/2016	0.0772								
11/28/2016			0.0529						
12/15/2016							0.0056 (J)		
1/10/2017				0.0086 (J)					
1/11/2017					0.0069 (J)				0.0075 (J)
1/16/2017						0.0096 (J)	0.0049 (J)	0.0071 (J)	
2/21/2017								0.0077 (J)	
2/22/2017			0.0607						
2/24/2017		0.0351							
2/27/2017	0.0888								
3/1/2017									
3/2/2017					0.0071 (J)	0.0112			0.009 (J)
3/3/2017							0.0046 (J)		
3/8/2017				0.0088 (J)					
4/26/2017				0.0085 (J)				0.0074 (J)	0.0078 (J)
4/27/2017					0.0064 (J)	0.0106			
4/28/2017							0.0039 (J)		
5/8/2017		0.0251	0.065						

Time Series

Constituent: Barium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/9/2017	0.0792								
5/26/2017							0.0034 (J)		
6/27/2017					0.0054 (J)	0.0092 (J)			
6/28/2017							0.003 (J)		0.0071 (J)
6/30/2017				0.0081 (J)				0.0076 (J)	
7/11/2017		0.0233							
7/13/2017	0.0839								
7/17/2017			0.06						
10/10/2017		0.0207							
10/11/2017	0.078								
10/16/2017			0.0542						
2/19/2018			0.0533						
3/27/2018				<0.01		<0.01		<0.01	
3/28/2018							<0.01		<0.01
3/29/2018					<0.01				
4/2/2018		0.022							
4/4/2018	0.074								
6/5/2018					0.0069 (J)				
6/6/2018						0.0082 (J)			
6/7/2018							0.0037 (J)		0.0068 (J)
6/8/2018				0.007 (J)					
6/11/2018								0.007 (J)	
8/6/2018			0.044						
9/19/2018		0.023							
9/20/2018	0.074								
10/1/2018				0.007 (J)	0.0062 (J)	0.0084 (J)	0.0038 (J)		0.0065 (J)
10/2/2018								0.0069 (J)	
2/25/2019			0.045						
2/26/2019				0.0067 (J)				0.007 (J)	
2/27/2019					0.0074 (J)	0.008 (J)	0.0035 (J)		0.0059 (J)
3/28/2019					0.0082 (J)	0.0082 (J)			
3/29/2019				0.0066 (J)			0.0039 (J)		
4/1/2019								0.0072 (J)	0.0064 (J)
6/12/2019			0.063						
8/19/2019			0.065						
8/20/2019		0.024							
9/24/2019					0.0072 (J)	0.0086 (J)	0.0038 (J)		
9/25/2019				0.0071 (J)				0.0066 (J)	0.0059 (J)
9/26/2019	0.065								
10/8/2019		0.025	0.058						
2/10/2020					0.0066 (J)	0.0091 (J)			
2/11/2020							0.0036 (J)		
2/12/2020				0.007 (J)				0.0073 (J)	0.0062 (J)
3/17/2020		0.035	0.047						
3/18/2020				0.0076 (J)		0.0084 (J)			
3/19/2020					0.0076 (J)		0.0036 (J)	0.0074 (J)	0.0072 (J)
3/25/2020	0.071								
8/26/2020			0.044						
8/27/2020		0.027							
9/22/2020		0.026	0.045						
9/23/2020					0.0068 (J)	0.0079 (J)	0.0039 (J)		0.0051 (J)
9/24/2020	0.066							0.0062 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
9/25/2020				0.0073 (J)					
2/9/2021	0.071								
2/10/2021				0.0078 (J)			0.0032 (J)		0.0059 (J)
2/11/2021								0.0077 (J)	
2/12/2021					0.0057 (J)	0.009 (J)			
3/1/2021		0.029						0.007	
3/2/2021			0.039	0.0076					
3/3/2021					0.0068	0.0094	0.0041 (J)		0.0064
3/4/2021	0.069								
8/19/2021		0.029		0.0077	0.0065	0.0079		0.0071	0.0052
8/20/2021			0.036						
8/27/2021							0.003 (J)		
9/1/2021	0.066								
2/8/2022	0.07	0.03	0.037						
2/9/2022					0.0067	0.0088	0.0029 (J)		0.0051
2/10/2022				0.0088					
2/11/2022								0.0077	
8/30/2022			0.031		0.0066		0.003 (J)		
8/31/2022	0.058	0.029		0.0075		0.0074		0.0068	0.0048 (J)
2/7/2023			0.034		0.14	0.21	0.0026 (J)		
2/8/2023		0.031		0.0089				0.0066	0.0048 (J)
2/9/2023	0.063								
8/15/2023		0.032	0.03	0.0079	0.0059	0.0078	0.0031 (J)		0.0046 (J)
8/16/2023	0.058							0.0066	
2/20/2024		0.031	0.035		0.0062	0.004 (J)	0.0044 (J)	0.0064	0.0045 (J)
2/21/2024	0.054								
2/23/2024				0.0096					
8/20/2024		0.031		0.0075	0.0061	0.0072	0.0033 (J)	0.0067	0.0044 (J)
8/22/2024	0.054								

Time Series

Constituent: Barium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/1/2007	
9/11/2007	
3/20/2008	
8/27/2008	
3/3/2009	
11/18/2009	
3/3/2010	
9/8/2010	
3/10/2011	
9/8/2011	
3/5/2012	
9/10/2012	
2/6/2013	
8/12/2013	
2/5/2014	
8/5/2014	
2/4/2015	
8/3/2015	
2/16/2016	
6/1/2016	0.0038
6/2/2016	
7/25/2016	0.0031 (J)
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	0.0027 (J)
9/15/2016	
9/19/2016	
11/1/2016	0.0027 (J)
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	0.0036 (J)
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	0.0036 (J)
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	0.0038 (J)
4/27/2017	
4/28/2017	
5/8/2017	

Time Series

Constituent: Barium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	0.004 (J)
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	<0.01
3/29/2018	
4/2/2018	
4/4/2018	
6/5/2018	
6/6/2018	
6/7/2018	
6/8/2018	0.0034 (J)
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	0.0034 (J)
10/2/2018	
2/25/2019	
2/26/2019	
2/27/2019	0.0034 (J)
3/28/2019	
3/29/2019	
4/1/2019	0.003 (J)
6/12/2019	
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	0.005 (J)
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	0.0031 (J)
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	0.0029 (J)
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	0.0039 (J)
9/24/2020	

Time Series

Constituent: Barium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
9/25/2020	
2/9/2021	
2/10/2021	0.0029 (J)
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	0.0031 (J)
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	0.0039 (J)
9/1/2021	
2/8/2022	
2/9/2022	0.0031 (J)
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	0.003 (J)
2/7/2023	
2/8/2023	0.0029 (J)
2/9/2023	
8/15/2023	
8/16/2023	0.0037 (J)
2/20/2024	0.0032 (J)
2/21/2024	
2/23/2024	
8/20/2024	0.0027 (J)
8/22/2024	

Time Series

Constituent: Barium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50	PZ-54D
6/8/2016							0.02		
8/1/2016							0.02		
9/2/2016			0.0409						
9/20/2016							0.0203		
11/8/2016							0.0191		
11/14/2016			0.0182						
1/17/2017							0.0192		
2/28/2017			0.023						
3/8/2017							0.0189		
5/2/2017							0.019		
5/9/2017			0.0349						
7/7/2017							0.019		
7/13/2017			0.0484						
9/22/2017			0.0491						
9/29/2017			0.0452						
10/6/2017			0.0508						
10/12/2017		0.064							
11/21/2017		0.0579							
1/11/2018		0.0549							
2/20/2018		0.0593							
3/30/2018			0.043				0.02		
4/3/2018		0.051							
6/12/2018							0.018		
6/13/2018			0.046						
6/29/2018		0.054							
8/6/2018		0.048							
9/24/2018		0.047							
9/26/2018			0.048				0.019		
10/16/2018	0.063								
3/5/2019							0.019		
3/6/2019			0.041						
4/4/2019			0.042				0.02		
9/26/2019	0.039		0.025				0.017		
3/25/2020	0.039		0.025						
3/26/2020							0.019		
9/23/2020							0.026		
9/24/2020	0.034								
9/25/2020		0.034							
10/7/2020			0.04						
2/9/2021		0.036					0.031		
2/10/2021	0.032		0.035						
3/3/2021							0.025		
3/4/2021	0.033	0.036	0.028						
8/25/2021		0.035							
9/1/2021	0.067						0.025		
9/3/2021			0.038	0.015					
2/10/2022	0.074	0.029				0.017	0.026		
2/11/2022			0.044	0.013	0.032				
8/31/2022	0.1								
9/1/2022		0.023	0.059	0.033	0.015	0.013			
2/8/2023		0.022		0.018	0.012				
2/9/2023	0.13		0.097			0.015			

Time Series

Constituent: Barium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50	PZ-54D
2/10/2023							0.031		
8/16/2023	0.18		0.19	0.021		0.014	0.025		
8/17/2023		0.023			0.011			0.022	
12/20/2023								0.02	
2/21/2024		0.021		0.02	0.0091				
2/22/2024						0.015		0.018	
2/23/2024	0.21		0.13				0.032		
6/10/2024								0.016	
6/12/2024									0.92
8/21/2024		0.022		0.028	0.0079				
8/22/2024	0.15		0.089			0.014	0.025		
8/23/2024								0.017	
11/7/2024									0.042
11/26/2024								0.019	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							<0.0005	<0.0005	
6/7/2016						<0.0005			<0.0005
7/27/2016						<0.0005	<0.0005	<0.0005	<0.0005
7/28/2016									
9/16/2016						<0.0005		<0.0005	
9/19/2016							<0.0005		<0.0005
11/2/2016									<0.0005
11/3/2016						<0.0005	<0.0005	<0.0005	
1/11/2017						<0.0005	<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
4/26/2017							<0.0005	<0.0005	<0.0005
5/2/2017						<0.0005			
6/28/2017							<0.0005	<0.0005	
6/29/2017						<0.0005			<0.0005
3/28/2018						<0.0005	<0.0005	<0.0005	
3/29/2018									<0.0005
6/5/2018									
6/6/2018									8E-05 (J)
6/7/2018							<0.0005		
6/11/2018						9E-05 (J)		5.7E-05 (J)	
9/25/2018						8.9E-05 (J)	<0.0005	8.2E-05 (J)	6.1E-05 (J)
10/16/2018	<0.0005								
3/5/2019						9.1E-05 (J)		7.9E-05 (J)	0.00011 (J)
3/6/2019							<0.0005		
4/2/2019						9E-05 (J)			
4/3/2019							<0.0005	7.5E-05 (J)	6.4E-05 (J)
9/24/2019									
9/25/2019						8.1E-05 (J)			<0.0005
9/26/2019	<0.0005						<0.0005	8.4E-05 (J)	
1/15/2020					0.00017 (J)				
2/11/2020						7.8E-05 (J)	<0.0005	7.6E-05 (J)	
2/12/2020									7.8E-05 (J)
3/24/2020						8E-05 (J)	<0.0005	8.9E-05 (J)	7.6E-05 (J)
3/25/2020	0.00037 (J)								
9/23/2020		<0.0005		<0.0005		8.1E-05 (J)	<0.0005	8.8E-05 (J)	
9/24/2020	5.8E-05 (J)				8.6E-05 (J)				8.3E-05 (J)
2/9/2021	<0.0005	5.1E-05 (J)		<0.0005	0.00015 (J)		<0.0005	9.8E-05 (J)	6.8E-05 (J)
3/3/2021	<0.0005	<0.0005		<0.0005		9.9E-05 (J)	<0.0005	0.00011 (J)	6.8E-05 (J)
3/4/2021					0.00013 (J)				
8/25/2021				<0.0005					
8/26/2021					0.00012 (J)			9.3E-05 (J)	
8/27/2021						0.0001 (J)	<0.0005		5.9E-05 (J)
9/1/2021	9.5E-05 (J)	6.5E-05 (J)							
2/9/2022						0.00011 (J)	<0.0005	8.9E-05 (J)	7.7E-05 (J)
2/10/2022	0.00016 (J)	7.4E-05 (J)	7.8E-05 (J)	<0.0005	0.00013 (J)				
8/30/2022						0.0001 (J)	<0.0005	8.2E-05 (J)	
8/31/2022	0.00011 (J)								<0.0005
9/1/2022		5.7E-05 (J)	0.00011 (J)	<0.0005	0.00011 (J)				
2/7/2023						9.6E-05 (J)	<0.0005	7.1E-05 (J)	7.4E-05 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
2/8/2023		5.5E-05 (J)		<0.0005	0.00013 (J)				
2/9/2023	0.00012 (J)		6.2E-05 (J)						
8/15/2023						<0.0005	<0.0005	5.7E-05 (J)	<0.0005
8/16/2023	0.00028 (J)		0.00017 (J)	<0.0005	0.00011 (J)				
8/17/2023		6.9E-05 (J)							
2/20/2024						0.0001 (J)	<0.0005		<0.0005
2/21/2024			0.00019 (J)						
2/22/2024		<0.0005		<0.0005	0.00013 (J)				
2/23/2024	0.00015 (J)							<0.0005	
8/20/2024						0.0001 (J)	<0.0005		<0.0005
8/21/2024		<0.0005						<0.0005	
8/22/2024	9.5E-05 (J)		0.00012 (J)						
8/23/2024				<0.0005	0.00012 (J)				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	<0.0005
7/27/2016	
7/28/2016	<0.0005
9/16/2016	
9/19/2016	<0.0005
11/2/2016	
11/3/2016	<0.0005
1/11/2017	
1/13/2017	<0.0005
3/1/2017	
3/2/2017	
3/6/2017	<0.0005
4/26/2017	<0.0005
5/2/2017	
6/28/2017	
6/29/2017	<0.0005
3/28/2018	
3/29/2018	<0.0005
6/5/2018	<0.0005
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	<0.0005
10/16/2018	
3/5/2019	<0.0005
3/6/2019	
4/2/2019	<0.0005
4/3/2019	
9/24/2019	<0.0005
9/25/2019	
9/26/2019	
1/15/2020	
2/11/2020	
2/12/2020	<0.0005
3/24/2020	<0.0005
3/25/2020	
9/23/2020	
9/24/2020	<0.0005
2/9/2021	<0.0005
3/3/2021	
3/4/2021	<0.0005
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	<0.0005
2/9/2022	<0.0005
2/10/2022	
8/30/2022	<0.0005
8/31/2022	
9/1/2022	
2/7/2023	<0.0005

Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
2/8/2023	
2/9/2023	
8/15/2023	<0.0005
8/16/2023	
8/17/2023	
2/20/2024	<0.0005
2/21/2024	
2/22/2024	
2/23/2024	
8/20/2024	<0.0005
8/21/2024	
8/22/2024	
8/23/2024	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.0005	<0.0005	<0.0005				
6/7/2016						<0.0005			
7/26/2016			<0.0005	<0.0005	<0.0005				
7/28/2016						<0.0005			
8/30/2016									9E-05 (J)
8/31/2016									
9/14/2016			<0.0005	<0.0005	<0.0005				
9/20/2016						0.0001 (J)			
11/2/2016			<0.0005	<0.0005					
11/4/2016					<0.0005				
11/8/2016						<0.0005			
11/16/2016									<0.0005
1/12/2017				<0.0005	<0.0005				
1/13/2017			<0.0005						
1/16/2017						0.0001 (J)			
2/24/2017									
2/27/2017									<0.0005
3/6/2017			<0.0005						
3/7/2017				<0.0005	<0.0005				
3/9/2017						0.0001 (J)			
5/1/2017			<0.0005	<0.0005					
5/2/2017					<0.0005	9E-05 (J)			
5/10/2017									9E-05 (J)
6/27/2017				<0.0005	<0.0005				
6/29/2017			<0.0005						
7/10/2017						<0.0005			
7/11/2017									0.0001 (J)
10/11/2017	<0.0005								
10/12/2017		0.0002 (J)					0.0057	0.0036	<0.0005
11/20/2017	<0.0005	0.0003 (J)					0.0053		
11/21/2017								0.0036	
1/10/2018		0.0003 (J)							
1/11/2018	<0.0005							0.0037	
1/12/2018							0.0053		
2/19/2018		<0.0005						0.0039	
2/20/2018	<0.0005						0.0053		
3/29/2018			<0.0005	<0.0005	<0.0005				
3/30/2018						<0.0005			
4/3/2018	<0.0005	<0.0005					0.0056	0.0037	
4/4/2018									<0.0005
6/6/2018				<0.0005					
6/7/2018			<0.0005		<0.0005				
6/12/2018						8.1E-05 (J)			
6/27/2018								0.0038	
6/28/2018	<0.0005	0.00029 (J)					0.0059		
8/7/2018	<0.0005	0.00024 (J)					0.0058	0.0037	
9/20/2018									<0.0005
9/24/2018	<0.0005	0.00019 (J)					0.0051	0.0032	
9/26/2018			<0.0005	<0.0005	<0.0005				
9/27/2018						9E-05 (J)			
3/4/2019			<0.0005	<0.0005	<0.0005				
3/6/2019						6.6E-05 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
4/3/2019			<0.0005	<0.0005	<0.0005				
4/4/2019						7.2E-05 (J)			
8/21/2019	<0.0005	0.0002 (J)							
8/22/2019							0.0049	0.0026 (J)	<0.0005
9/24/2019				<0.0005	<0.0005				
9/25/2019			<0.0005						
9/27/2019						7.7E-05 (J)			
10/9/2019	<0.0005	0.0002 (J)					0.0046	0.0026 (J)	<0.0005
2/12/2020	<0.0005	0.00018 (J)	<0.0005	<0.0005	<0.0005				
3/24/2020		0.00022 (J)		<0.0005	<0.0005				
3/25/2020	<0.0005		<0.0005				0.0038	0.0026 (J)	<0.0005
3/26/2020						9E-05 (J)			
9/22/2020			<0.0005	<0.0005	<0.0005				
9/24/2020	<0.0005	0.0002 (J)				0.00015 (J)			6.7E-05 (J)
9/25/2020							0.0033	0.002 (J)	
2/8/2021				<0.0005	<0.0005				
2/9/2021			<0.0005			0.00015 (J)	0.0029 (J)		
2/10/2021	5.1E-05 (J)	0.00021 (J)						0.0015 (J)	5.7E-05 (J)
3/2/2021				<0.0005	<0.0005				
3/3/2021			<0.0005						
3/4/2021	<0.0005	0.00021 (J)				0.00013 (J)	0.0029	0.0015	<0.0005
8/25/2021						0.00019 (J)			<0.0005
8/26/2021	<0.0005		<0.0005	<0.0005	<0.0005		0.0028	0.0012	
9/3/2021		0.00024 (J)							
9/27/2021									
2/8/2022	<0.0005	0.00028 (J)						0.0016	
2/10/2022				<0.0005	<0.0005	0.00023 (J)	0.0027		6.1E-05 (J)
2/11/2022			<0.0005						
8/30/2022				<0.0005	<0.0005				
8/31/2022	<0.0005	0.00025 (J)	<0.0005						
9/1/2022						0.00019 (J)	0.0022	0.0013	<0.0005
2/7/2023	<0.0005			<0.0005					
2/8/2023		0.00026 (J)				0.00022 (J)	0.002	0.0013	6.2E-05 (J)
2/9/2023			<0.0005		<0.0005				
8/15/2023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005				
8/16/2023						0.0002 (J)	0.0018	0.0012	5.7E-05 (J)
2/20/2024	<0.0005	0.00025 (J)	<0.0005	<0.0005	<0.0005				
2/21/2024						0.00019 (J)			
2/22/2024							0.0019	0.0014	<0.0005
8/20/2024			<0.0005	<0.0005	<0.0005				
8/21/2024	<0.0005	0.00023 (J)				0.00019 (J)			
8/22/2024									<0.0005
8/23/2024							0.0015	0.0011	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	<0.0005
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	<0.0005
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	<0.0005
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	<0.0005
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	<0.0005
10/11/2017	
10/12/2017	0.0001 (J)
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	<0.0005
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	0.00029 (J)
9/24/2018	
9/26/2018	
9/27/2018	
3/4/2019	
3/6/2019	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
4/3/2019	
4/4/2019	
8/21/2019	0.0003 (J)
8/22/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	0.00034 (J)
2/12/2020	
3/24/2020	
3/25/2020	0.00034 (J)
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	0.00054 (J)
2/8/2021	
2/9/2021	0.00053 (J)
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	0.00056
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	0.00015 (J)
2/8/2022	0.00037 (J)
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	0.00033 (J)
2/7/2023	
2/8/2023	0.00036 (J)
2/9/2023	
8/15/2023	
8/16/2023	0.00034 (J)
2/20/2024	
2/21/2024	
2/22/2024	0.00032 (J)
8/20/2024	
8/21/2024	
8/22/2024	0.00043 (J)
8/23/2024	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/1/2007			<0.0005						
9/11/2007			<0.0005						
3/20/2008			<0.0005						
8/27/2008			<0.0005						
3/3/2009			<0.0005						
11/18/2009			<0.0005						
3/3/2010			<0.0005						
9/8/2010			<0.0005						
3/10/2011			<0.0005						
9/8/2011			<0.0005						
3/5/2012			<0.0005						
9/10/2012			<0.0005						
2/6/2013			<0.0005						
8/12/2013			<0.0005						
2/5/2014			<0.0005						
8/5/2014			<0.0005						
2/4/2015			<0.0005						
8/3/2015			<0.0005						
2/16/2016			<0.0005						
6/1/2016					<0.0005	<0.0005			
6/2/2016				<0.0005				<0.0005	<0.0005
7/25/2016						<0.0005		<0.0005	
7/26/2016				0.0002 (J)	<0.0005				<0.0005
8/30/2016		<0.0005							
8/31/2016			<0.0005						
9/1/2016	0.0001 (J)								
9/13/2016					<0.0005	<0.0005			
9/14/2016							<0.0005		
9/15/2016				0.0002 (J)					<0.0005
9/19/2016								<0.0005	
11/1/2016					<0.0005			<0.0005	<0.0005
11/2/2016				0.0002 (J)					
11/4/2016						<0.0005	<0.0005		
11/14/2016		<0.0005							
11/15/2016	0.0001 (J)								
11/28/2016			<0.0005						
12/15/2016							<0.0005		
1/10/2017				0.0002 (J)					
1/11/2017					<0.0005				<0.0005
1/16/2017						<0.0005	<0.0005	<0.0005	
2/21/2017								<0.0005	
2/22/2017			<0.0005						
2/24/2017		<0.0005							
2/27/2017	0.0001 (J)								
3/1/2017									
3/2/2017					<0.0005	<0.0005			<0.0005
3/3/2017							<0.0005		
3/8/2017				0.0002 (J)					
4/26/2017				0.0002 (J)				<0.0005	<0.0005
4/27/2017					<0.0005	<0.0005			
4/28/2017							<0.0005		
5/8/2017		7E-05 (J)	<0.0005						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/9/2017	0.0001 (J)								
5/26/2017							<0.0005		
6/27/2017					<0.0005	<0.0005			
6/28/2017							<0.0005		<0.0005
6/30/2017				0.0002 (J)				<0.0005	
7/11/2017		<0.0005							
7/13/2017	0.0001 (J)								
7/17/2017			<0.0005						
10/10/2017		<0.0005							
10/11/2017	0.0001 (J)								
10/16/2017			<0.0005						
2/19/2018			<0.0005						
3/27/2018				<0.0005		<0.0005		<0.0005	
3/28/2018							<0.0005		<0.0005
3/29/2018					<0.0005				
4/2/2018		<0.0005							
4/4/2018	<0.0005								
8/6/2018			<0.0005						
9/19/2018		5.7E-05 (J)							
9/20/2018	0.00011 (J)								
2/25/2019			<0.0005						
2/26/2019				0.00016 (J)				7.2E-05 (J)	
2/27/2019					<0.0005	<0.0005	<0.0005		<0.0005
3/28/2019					<0.0005	<0.0005			
3/29/2019				0.00017 (J)			<0.0005		
4/1/2019								<0.0005	<0.0005
6/12/2019			<0.0005						
8/19/2019			<0.0005						
8/20/2019		<0.0005							
9/24/2019					<0.0005	<0.0005	<0.0005		
9/25/2019				0.00018 (J)				<0.0005	<0.0005
9/26/2019	0.00013 (J)								
10/8/2019			<0.0005						
2/10/2020					<0.0005	<0.0005			
2/11/2020							<0.0005		
2/12/2020				0.00019 (J)				<0.0005	<0.0005
3/17/2020			<0.0005						
3/18/2020				0.00021 (J)		<0.0005			
3/19/2020					<0.0005		<0.0005	<0.0005	<0.0005
3/25/2020	0.00013 (J)								
8/26/2020			<0.0005						
8/27/2020		4.7E-05 (J)							
9/22/2020		<0.0005	<0.0005						
9/23/2020					<0.0005	<0.0005	<0.0005		<0.0005
9/24/2020	0.00013 (J)							<0.0005	
9/25/2020				0.00018 (J)					
2/9/2021	0.00013 (J)								
2/10/2021				0.00019 (J)			<0.0005		<0.0005
2/11/2021								4.7E-05 (J)	
2/12/2021					<0.0005	<0.0005			
3/1/2021		5.5E-05 (J)						<0.0005	
3/2/2021			<0.0005	0.00018 (J)					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
3/3/2021					<0.0005	<0.0005	<0.0005		<0.0005
3/4/2021	0.0001 (J)								
8/19/2021		<0.0005		0.00022 (J)	<0.0005	<0.0005		<0.0005	<0.0005
8/20/2021			<0.0005						
8/27/2021							<0.0005		
9/1/2021	0.00012 (J)								
2/8/2022	0.00015 (J)	5.6E-05 (J)	<0.0005						
2/9/2022					<0.0005	<0.0005	<0.0005		<0.0005
2/10/2022				0.00025 (J)					
2/11/2022								<0.0005	
8/30/2022			<0.0005		<0.0005		<0.0005		
8/31/2022	0.00017 (J)	<0.0005		0.0002 (J)		<0.0005		<0.0005	<0.0005
2/7/2023			<0.0005		0.0011	0.00054	<0.0005		
2/8/2023		<0.0005		0.00022 (J)				<0.0005	<0.0005
2/9/2023	0.00012 (J)								
8/15/2023		<0.0005	<0.0005	0.00018 (J)	<0.0005	<0.0005	<0.0005		<0.0005
8/16/2023	0.00011 (J)							<0.0005	
2/20/2024		<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2/21/2024	0.0001 (J)								
2/23/2024				0.00024 (J)					
8/20/2024		<0.0005		0.00021 (J)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
8/22/2024	0.0001 (J)								

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/1/2007	
9/11/2007	
3/20/2008	
8/27/2008	
3/3/2009	
11/18/2009	
3/3/2010	
9/8/2010	
3/10/2011	
9/8/2011	
3/5/2012	
9/10/2012	
2/6/2013	
8/12/2013	
2/5/2014	
8/5/2014	
2/4/2015	
8/3/2015	
2/16/2016	
6/1/2016	<0.0005
6/2/2016	
7/25/2016	<0.0005
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	<0.0005
9/15/2016	
9/19/2016	
11/1/2016	<0.0005
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	<0.0005
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	<0.0005
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	<0.0005
4/27/2017	
4/28/2017	
5/8/2017	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	<0.0005
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	<0.0005
3/29/2018	
4/2/2018	
4/4/2018	
8/6/2018	
9/19/2018	
9/20/2018	
2/25/2019	
2/26/2019	
2/27/2019	<0.0005
3/28/2019	
3/29/2019	
4/1/2019	<0.0005
6/12/2019	
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	<0.0005
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	<0.0005
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	<0.0005
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	5.9E-05 (J)
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	<0.0005
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
3/3/2021	<0.0005
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	<0.0005
9/1/2021	
2/8/2022	
2/9/2022	<0.0005
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	<0.0005
2/7/2023	
2/8/2023	<0.0005
2/9/2023	
8/15/2023	
8/16/2023	<0.0005
2/20/2024	<0.0005
2/21/2024	
2/23/2024	
8/20/2024	<0.0005
8/22/2024	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50	PZ-54D
6/8/2016							<0.0005		
8/1/2016							0.0001 (J)		
9/2/2016			0.0003 (J)						
9/20/2016							0.0001 (J)		
11/8/2016							<0.0005		
11/14/2016			9E-05 (J)						
1/17/2017							0.0001 (J)		
2/28/2017			0.0001 (J)						
3/8/2017							0.0001 (J)		
5/2/2017							0.0001 (J)		
5/9/2017			0.0002 (J)						
7/7/2017							0.0001 (J)		
7/13/2017			0.0003 (J)						
9/22/2017			0.0003 (J)						
9/29/2017			0.0003 (J)						
10/6/2017			0.0003 (J)						
10/12/2017		0.0004 (J)							
11/21/2017		0.0004 (J)							
1/11/2018		0.0003 (J)							
2/20/2018		<0.0005							
3/30/2018			<0.0005				<0.0005		
4/3/2018		<0.0005							
6/12/2018							0.00012 (J)		
6/13/2018			0.00035 (J)						
6/29/2018		0.00033 (J)							
8/6/2018		0.0002 (J)							
8/30/2018	0.00052 (J)								
9/24/2018		0.00029 (J)							
9/26/2018			0.00032 (J)				0.00014 (J)		
10/16/2018	0.00036 (J)								
3/5/2019							0.00016 (J)		
3/6/2019			0.00029 (J)						
4/4/2019			0.00033 (J)				0.00015 (J)		
9/26/2019	<0.0005		0.00029 (J)				0.00014 (J)		
3/25/2020	<0.0005		0.00022 (J)						
3/26/2020							0.00016 (J)		
9/23/2020							6.1E-05 (J)		
9/24/2020	0.00033 (J)								
9/25/2020		0.00031 (J)							
10/7/2020			0.00014 (J)						
2/9/2021		0.00029 (J)					0.00013 (J)		
2/10/2021	0.00025 (J)		9.9E-05 (J)						
3/3/2021							9.9E-05 (J)		
3/4/2021	0.00025 (J)	0.00017 (J)	0.00016 (J)						
8/25/2021		0.00059							
9/1/2021	0.00045 (J)						0.00014 (J)		
9/3/2021			0.00035 (J)	<0.0005					
2/10/2022	0.00055	0.001				0.0033	0.00016 (J)		
2/11/2022			0.00043 (J)	<0.0005	5.9E-05 (J)				
8/31/2022	0.00061								
9/1/2022		0.0011	0.00053	<0.0005	<0.0005	0.0031			
2/8/2023		0.0011		<0.0005	<0.0005				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50	PZ-54D
2/9/2023	0.0008		0.00066			0.0024			
2/10/2023							5.4E-05 (J)		
8/16/2023	0.0011		0.0011	<0.0005		0.0028	9.6E-05 (J)		
8/17/2023		0.0012			8.6E-05 (J)			0.0047	
12/20/2023								0.0051	
2/21/2024		0.0012		<0.0005	<0.0005				
2/22/2024						0.0029		0.0049	
2/23/2024	0.0015		0.0018				0.00015 (J)		
6/10/2024								0.0046	
6/12/2024									0.0033
8/21/2024		0.0011		<0.0005	<0.0005				
8/22/2024	0.00095		0.0021			0.0032	0.00012 (J)		
8/23/2024								0.0041	
11/7/2024									0.00014 (J)
11/26/2024								0.0037	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							<0.04	<0.04	
6/7/2016						<0.04			<0.04
7/27/2016						0.008 (J)	<0.04	0.0059 (J)	<0.04
7/28/2016									
9/16/2016						0.0086 (J)		0.0079 (J)	
9/19/2016							<0.04		<0.04
11/2/2016									<0.04
11/3/2016						0.0077 (J)	<0.04	0.0082 (J)	
1/11/2017						0.0092 (J)	<0.04	0.0096 (J)	
1/13/2017									<0.04
3/1/2017							<0.04	<0.04	
3/2/2017						0.0095 (J)			
3/6/2017									<0.04
4/26/2017							<0.04	0.0091 (J)	<0.04
5/2/2017						<0.04			
6/28/2017							<0.04	0.0079 (J)	
6/29/2017						0.0074 (J)			<0.04
10/3/2017									
10/4/2017						0.0077 (J)		0.009 (J)	<0.04
10/5/2017							<0.04		
6/5/2018									
6/6/2018									0.0049 (J)
6/7/2018							<0.04		
6/11/2018						0.01 (J)		0.0093 (J)	
9/25/2018						0.0096 (J)	0.0046 (J)	0.007 (J)	<0.04
10/16/2018	0.2								
4/2/2019						0.0066 (J)			
4/3/2019							<0.04	0.0053 (J)	<0.04
9/24/2019									
9/25/2019						0.0081 (J)			<0.04
9/26/2019	0.092						0.0062 (J)	0.0072 (J)	
1/15/2020		0.031 (J)			8.7				
1/16/2020			6.8	1.9					
2/11/2020			4.5		7.8				
3/24/2020						0.0092 (J)	0.0054 (J)	0.01 (J)	<0.04
3/25/2020	0.018 (J)								
9/23/2020		0.026 (J)		2.5		0.0066 (J)	0.021 (J)	0.006 (J)	
9/24/2020	0.076 (J)				8.7				0.0094 (J)
3/3/2021	0.039 (J)	0.032 (J)		0.81		0.01 (J)	<0.04	0.0094 (J)	<0.04
3/4/2021					6.1				
8/25/2021				2.8					
8/26/2021					5.9			<0.04	
8/27/2021						0.011 (J)	<0.04		<0.04
9/1/2021	0.18	0.017 (J)							
2/9/2022						0.0098 (J)	<0.04	<0.04	<0.04
2/10/2022	0.36	0.022 (J)	7.7	3	4.9				
8/30/2022						0.013 (J)	<0.04	0.014 (J)	
8/31/2022	0.58								<0.04
9/1/2022		0.046	7.1	3.2	6.1				
2/7/2023						0.014 (J)	<0.04	<0.04	<0.04
2/8/2023		0.031 (J)		3	6.5				
2/9/2023	0.63		8.1						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
8/15/2023						<0.04	<0.04	<0.04	<0.04
8/16/2023	0.55		5	3.2	6.4				
8/17/2023		0.04							
2/20/2024						<0.04	<0.04		<0.04
2/21/2024			8.6						
2/22/2024		0.019 (J)		3.8	6.7				
2/23/2024	1.5							0.018 (J)	
8/20/2024						<0.04	<0.04		<0.04
8/21/2024		0.034 (J)						<0.04	
8/22/2024	2.3		9.6						
8/23/2024				4.2	8.6				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	<0.04
7/27/2016	
7/28/2016	<0.04
9/16/2016	
9/19/2016	<0.04
11/2/2016	
11/3/2016	<0.04
1/11/2017	
1/13/2017	<0.04
3/1/2017	
3/2/2017	
3/6/2017	<0.04
4/26/2017	<0.04
5/2/2017	
6/28/2017	
6/29/2017	<0.04
10/3/2017	<0.04
10/4/2017	
10/5/2017	
6/5/2018	0.0092 (J)
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	0.0054 (J)
10/16/2018	
4/2/2019	0.011 (J)
4/3/2019	
9/24/2019	0.018 (J)
9/25/2019	
9/26/2019	
1/15/2020	
1/16/2020	
2/11/2020	
3/24/2020	0.016 (J)
3/25/2020	
9/23/2020	
9/24/2020	0.013 (J)
3/3/2021	
3/4/2021	0.0079 (J)
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	<0.04
2/9/2022	<0.04
2/10/2022	
8/30/2022	0.012 (J)
8/31/2022	
9/1/2022	
2/7/2023	<0.04
2/8/2023	
2/9/2023	

Time Series

Constituent: Boron (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
8/15/2023	0.046 (J)
8/16/2023	
8/17/2023	
2/20/2024	<0.04
2/21/2024	
2/22/2024	
2/23/2024	
8/20/2024	<0.04
8/21/2024	
8/22/2024	
8/23/2024	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.04	<0.04	<0.04				
6/7/2016						0.99			
7/26/2016			0.0047 (J)	0.0052 (J)	<0.04				
7/28/2016						1.09			
8/30/2016									24.7
8/31/2016									
9/14/2016			<0.04	0.0071 (J)	0.01 (J)				
9/20/2016						1.35			
11/2/2016			<0.04	<0.04					
11/4/2016					<0.04				
11/8/2016						1.5			
11/16/2016									16.4
1/12/2017				0.0076 (J)	<0.04				
1/13/2017			<0.04						
1/16/2017						1.67			
2/24/2017									
2/27/2017									17.9
3/6/2017			<0.04						
3/7/2017				0.0089 (J)	<0.04				
3/9/2017						1.44			
5/1/2017			<0.04	0.0061 (J)					
5/2/2017					<0.04	1.2			
5/10/2017									20.4
6/27/2017				0.0079 (J)	<0.04				
6/29/2017			<0.04						
7/10/2017						1.12			
7/11/2017									25.2
10/3/2017				0.0094 (J)	<0.04				
10/5/2017			<0.04						
10/11/2017	0.0135 (J)					1.09			
10/12/2017		0.0401					19.3	12	20
11/20/2017	0.0251 (J)	0.156					21.8		
11/21/2017								12.1	
1/10/2018		0.15							
1/11/2018	0.0255 (J)							12.8	
1/12/2018							18.7		
2/19/2018		0.146						15.2	
2/20/2018	<0.04						18.6		
4/3/2018	0.033 (J)	0.12					20.9	14.5	
4/4/2018									22.7
6/6/2018				0.0098 (J)					
6/7/2018			0.0045 (J)		<0.04				
6/12/2018						0.9			
6/27/2018								14.1	
6/28/2018	0.053	0.16					22.7		
8/7/2018	0.024 (J)	0.12					19.1	11.9	
9/20/2018									20.3
9/24/2018	0.028 (J)	0.099					18.4	12.2	
9/26/2018			0.005 (J)	0.01 (J)	0.0057 (J)				
9/27/2018						0.71			
3/26/2019		0.096							
3/27/2019	0.017 (J)						16.7		20.3

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
3/28/2019								7.1	
4/3/2019			0.0055 (J)	0.0076 (J)	0.0044 (J)				
4/4/2019						0.6			
9/24/2019				0.01 (J)	0.0049 (J)				
9/25/2019			<0.04						
9/27/2019						0.58			
10/9/2019	0.017 (J)	0.079					13.5	8.6	16.6
3/24/2020		0.088 (J)		0.011 (J)	0.0068 (J)				
3/25/2020	0.043 (J)		0.011 (J)				9.3	7.9	15.5
3/26/2020						0.94			
9/22/2020			<0.04	0.0079 (J)	0.0053 (J)				
9/24/2020	0.037 (J)	0.087 (J)				1.1			15.2
9/25/2020							8	6	
3/2/2021				0.0068 (J)	0.011 (J)				
3/3/2021			0.0056 (J)						
3/4/2021	0.033 (J)	0.078				1.2	6.4	4	14.8
8/25/2021						1.3			13.5
8/26/2021	0.095		<0.04	0.009 (J)	<0.04		6.1	3.3	
9/3/2021		0.077							
9/27/2021									
2/8/2022	0.13	0.074						4	
2/10/2022				0.011 (J)	<0.04	1.5	5.4		14.4
2/11/2022			<0.04						
8/30/2022				0.0098 (J)	<0.04				
8/31/2022	0.14	0.062	<0.04						
9/1/2022						1.5	4.8	3.6	13.4
2/7/2023	0.13			<0.04					
2/8/2023		0.057				1.6	4.1	3.3	14.5
2/9/2023			<0.04		<0.04				
8/15/2023	0.15 (J)	0.052 (J)	<0.04	<0.04	<0.04				
8/16/2023						1.2	3.7	3.1	7.1
2/20/2024	0.12	0.056	<0.04	<0.04	<0.04				
2/21/2024						1.3			
2/22/2024							3.7	3.5	15.5
8/20/2024			<0.04	<0.04	<0.04				
8/21/2024	0.13	0.061				1.2			
8/22/2024									12.4
8/23/2024							3.3	3.2	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	0.169
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	0.406
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	0.725
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	0.955
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	0.994
10/3/2017	
10/5/2017	
10/11/2017	
10/12/2017	1.15
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
4/3/2018	
4/4/2018	1.2
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	2.1
9/24/2018	
9/26/2018	
9/27/2018	
3/26/2019	
3/27/2019	

Time Series

Constituent: Boron (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
3/28/2019	1.8
4/3/2019	
4/4/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	2.7
3/24/2020	
3/25/2020	2.4
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	3.9
3/2/2021	
3/3/2021	
3/4/2021	3.6
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	0.64
2/8/2022	2.3
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	2.6
2/7/2023	
2/8/2023	2.5
2/9/2023	
8/15/2023	
8/16/2023	2.8
2/20/2024	
2/21/2024	
2/22/2024	2.3
8/20/2024	
8/21/2024	
8/22/2024	3.5
8/23/2024	

Time Series

Constituent: Boron (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/1/2016					<0.04	<0.04			
6/2/2016				<0.04				<0.04	<0.04
7/25/2016						<0.04		<0.04	
7/26/2016				0.0177 (J)	0.0055 (J)				0.0097 (J)
8/30/2016		0.0166 (J)							
8/31/2016			0.0315 (J)						
9/1/2016	0.0113 (J)								
9/13/2016					<0.04	<0.04			
9/14/2016							<0.04		
9/15/2016				0.0214 (J)					0.0102 (J)
9/19/2016								<0.04	
11/1/2016					0.0086 (J)			<0.04	<0.04
11/2/2016				<0.04					
11/4/2016						<0.04	<0.04		
11/14/2016		0.0166 (J)							
11/15/2016	0.0074 (J)								
11/28/2016			0.0095 (J)						
12/15/2016							0.0107 (J)		
1/10/2017				0.0198 (J)					
1/11/2017					0.0074 (J)				<0.04
1/16/2017						<0.04	<0.04	<0.04	
2/21/2017								<0.04	
2/22/2017			<0.04						
2/24/2017		0.0145 (J)							
2/27/2017	<0.04								
3/1/2017									
3/2/2017					0.008 (J)	<0.04			0.0084 (J)
3/3/2017							<0.04		
3/8/2017				0.0189 (J)					
4/26/2017				0.0161 (J)				<0.04	<0.04
4/27/2017					0.0066 (J)	<0.04			
4/28/2017							<0.04		
5/8/2017		0.0141 (J)	0.0084 (J)						
5/9/2017	<0.04								
5/26/2017							<0.04		
6/27/2017					0.0087 (J)	0.006 (J)			
6/28/2017							<0.04		<0.04
6/30/2017				0.0173 (J)				<0.04	
7/11/2017		0.0131 (J)							
7/13/2017	0.0093 (J)								
7/17/2017			0.0092 (J)						
10/3/2017					0.0072 (J)	0.0071 (J)	<0.04		
10/4/2017								<0.04	<0.04
10/5/2017				0.0173 (J)					
10/10/2017		0.0124 (J)							
10/11/2017	<0.04								
10/16/2017			<0.04						
2/19/2018			<0.04						
4/2/2018		0.013 (J)							
4/4/2018	0.0041 (J)								
6/5/2018					0.0052 (J)				
6/6/2018						<0.04			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/7/2018							<0.04		0.004 (J)
6/8/2018				0.013 (J)					
6/11/2018								0.014 (J)	
8/6/2018			<0.04						
9/19/2018		0.012 (J)							
9/20/2018	0.0042 (J)								
10/1/2018				0.015 (J)	0.021 (J)	0.0049 (J)	<0.04		<0.04
10/2/2018								<0.04	
2/25/2019			<0.04						
3/27/2019		0.013 (J)							
3/28/2019	<0.04				0.005 (J)	<0.04			
3/29/2019				0.014 (J)			0.0065 (J)		
4/1/2019								<0.04	<0.04
6/12/2019			<0.04						
9/24/2019					0.0064 (J)	0.0055 (J)	0.0076 (J)		
9/25/2019				0.018 (J)				<0.04	0.0054 (J)
9/26/2019	<0.04								
10/8/2019		0.012 (J)	<0.04						
3/17/2020		0.023 (J)	0.0051 (J)						
3/18/2020				0.02 (J)		0.0087 (J)			
3/19/2020					0.0085 (J)		0.0073 (J)	0.0052 (J)	0.0073 (J)
3/25/2020	0.012 (J)								
9/22/2020		0.0076 (J)	0.0079 (J)						
9/23/2020					<0.04	<0.04	<0.04		0.012 (J)
9/24/2020	0.062 (J)							0.0075 (J)	
9/25/2020				0.02 (J)					
3/1/2021		0.013 (J)						<0.04	
3/2/2021			<0.04	0.017 (J)					
3/3/2021					<0.04	<0.04	<0.04		<0.04
3/4/2021	<0.04								
8/19/2021		0.011 (J)		0.018 (J)	<0.04	<0.04		<0.04	<0.04
8/20/2021			<0.04						
8/27/2021							<0.04		
9/1/2021	<0.04								
2/8/2022	<0.04	0.015 (J)	<0.04						
2/9/2022					<0.04	<0.04	<0.04		0.01 (J)
2/10/2022				0.02 (J)					
2/11/2022								<0.04	
8/30/2022			<0.04		<0.04		<0.04		
8/31/2022	0.011 (J)	0.0091 (J)		0.015 (J)		<0.04		<0.04	<0.04
2/7/2023			<0.04		<0.04	<0.04	<0.04		
2/8/2023		0.011 (J)		0.015 (J)				<0.04	<0.04
2/9/2023	0.014 (J)								
8/15/2023		<0.04	<0.04	0.017 (J)	<0.04	0.0094 (J)	<0.04		<0.04
8/16/2023	0.012 (J)							<0.04	
2/20/2024		0.023 (J)	0.017 (J)		0.015 (J)	0.014 (J)	<0.04	<0.04	<0.04
2/21/2024	<0.04								
2/23/2024				0.037 (J)					
8/20/2024		<0.04		0.014 (J)	<0.04	<0.04	<0.04	<0.04	<0.04
8/22/2024	0.035 (J)								

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/1/2016	<0.04
6/2/2016	
7/25/2016	<0.04
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	<0.04
9/15/2016	
9/19/2016	
11/1/2016	<0.04
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	<0.04
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	<0.04
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	<0.04
4/27/2017	
4/28/2017	
5/8/2017	
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	<0.04
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/3/2017	
10/4/2017	<0.04
10/5/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
4/2/2018	
4/4/2018	
6/5/2018	
6/6/2018	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/7/2018	
6/8/2018	<0.04
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	<0.04
10/2/2018	
2/25/2019	
3/27/2019	
3/28/2019	
3/29/2019	
4/1/2019	<0.04
6/12/2019	
9/24/2019	
9/25/2019	<0.04
9/26/2019	
10/8/2019	
3/17/2020	
3/18/2020	
3/19/2020	0.0053 (J)
3/25/2020	
9/22/2020	
9/23/2020	0.0073 (J)
9/24/2020	
9/25/2020	
3/1/2021	
3/2/2021	
3/3/2021	<0.04
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	<0.04
9/1/2021	
2/8/2022	
2/9/2022	<0.04
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	<0.04
2/7/2023	
2/8/2023	<0.04
2/9/2023	
8/15/2023	
8/16/2023	<0.04
2/20/2024	<0.04
2/21/2024	
2/23/2024	
8/20/2024	<0.04
8/22/2024	

Time Series

Constituent: Boron (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50	PZ-54D
6/8/2016							<0.04		
8/1/2016							<0.04		
9/2/2016			0.133						
9/20/2016							<0.04		
11/8/2016							<0.04		
11/14/2016			0.287						
1/17/2017							<0.04		
2/28/2017			0.215						
3/8/2017							<0.04		
5/2/2017							0.0099 (J)		
5/9/2017			0.233						
7/7/2017							0.0076 (J)		
7/13/2017			0.262						
9/22/2017			0.238						
9/29/2017			0.235						
10/5/2017							<0.04		
10/6/2017			0.256						
10/11/2017			0.245						
10/12/2017		15.4							
11/21/2017		17.2							
1/11/2018		15.8							
2/20/2018		19.5							
4/3/2018		17.5							
6/12/2018							0.018 (J)		
6/13/2018			0.25						
6/29/2018		20.6							
8/6/2018		15.9							
8/30/2018	0.04								
9/24/2018		16.5							
9/26/2018			0.24				0.0055 (J)		
10/16/2018	0.031 (J)								
4/4/2019			0.22				<0.04		
9/26/2019	<0.04		0.13				0.0068 (J)		
3/25/2020	0.071 (J)		0.11						
3/26/2020							0.033 (J)		
9/23/2020							<0.04		
9/24/2020	0.017 (J)								
9/25/2020		14.1							
10/7/2020			0.018 (J)						
3/3/2021							<0.04		
3/4/2021	0.012 (J)	12.4	0.0088 (J)						
8/25/2021		10.3							
9/1/2021	0.044						<0.04		
9/3/2021			0.012 (J)	1.6					
2/10/2022	0.054	9.5				6.8	<0.04		
2/11/2022			0.019 (J)	0.44	0.84				
8/31/2022	0.052								
9/1/2022		9.9	0.067	0.83	1.2	7.2			
2/8/2023		8.2		0.7	1.2				
2/9/2023	0.076		0.028 (J)			6.9			
2/10/2023							<0.04		
8/16/2023	0.13		0.058	0.75		7.1	<0.04		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50	PZ-54D
8/17/2023		9.5			1.9			20.1	
12/20/2023								20.8	
2/21/2024		7.8		0.57	1.6				
2/22/2024						6.4		22.1	
2/23/2024	0.2		0.11				0.016 (J)		
6/10/2024								20	
6/12/2024									2.8
8/21/2024		7.6		0.96	1.9				
8/22/2024	0.15		0.16			7.6	<0.04		
8/23/2024								21.5	
11/7/2024									1.8
11/26/2024								23.8	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							<0.0005	<0.0005	
6/7/2016						<0.0005			<0.0005
7/27/2016						<0.0005	<0.0005	<0.0005	<0.0005
7/28/2016									
9/16/2016						<0.0005		<0.0005	
9/19/2016							<0.0005		<0.0005
11/2/2016									<0.0005
11/3/2016						<0.0005	<0.0005	<0.0005	
1/11/2017						0.0001 (J)	<0.0005	0.0001 (J)	
1/13/2017									<0.0005
3/1/2017							<0.0005	<0.0005	
3/2/2017						<0.0005			
3/6/2017									<0.0005
4/26/2017							<0.0005	<0.0005	<0.0005
5/2/2017						<0.0005			
6/28/2017							<0.0005	<0.0005	
6/29/2017						<0.0005			<0.0005
3/28/2018						<0.0005	<0.0005	<0.0005	
3/29/2018									<0.0005
6/5/2018									
6/6/2018									<0.0005
6/7/2018							<0.0005		
6/11/2018						<0.0005		<0.0005	
9/25/2018						<0.0005	<0.0005	<0.0005	<0.0005
10/16/2018	0.00014 (J)								
3/5/2019						<0.0005		<0.0005	<0.0005
3/6/2019							<0.0005		
4/2/2019						<0.0005			
4/3/2019							<0.0005	<0.0005	<0.0005
9/24/2019									
9/25/2019						<0.0005			<0.0005
9/26/2019	<0.0005						<0.0005	<0.0005	
2/11/2020						<0.0005	<0.0005	<0.0005	
2/12/2020									<0.0005
3/24/2020						<0.0005	<0.0005	<0.0005	<0.0005
3/25/2020	<0.0005								
9/23/2020		<0.0005		<0.0005		<0.0005	<0.0005	<0.0005	
9/24/2020	0.00017 (J)				0.00018 (J)				<0.0005
2/9/2021	0.00013 (J)	<0.0005		<0.0005	0.00025 (J)		<0.0005	<0.0005	<0.0005
3/3/2021	<0.0005	<0.0005		<0.0005		<0.0005	<0.0005	<0.0005	<0.0005
3/4/2021					0.00018 (J)				
8/25/2021				<0.0005					
8/26/2021					0.00021 (J)			<0.0005	
8/27/2021						<0.0005	<0.0005		<0.0005
9/1/2021	0.00023 (J)	<0.0005							
2/9/2022						<0.0005	<0.0005	<0.0005	<0.0005
2/10/2022	0.00018 (J)	<0.0005	<0.0005	<0.0005	0.00022 (J)				
8/30/2022						<0.0005	<0.0005	<0.0005	
8/31/2022	0.00015 (J)								<0.0005
9/1/2022		0.00015 (J)	<0.0005	<0.0005	0.00023 (J)				
2/7/2023						<0.0005	<0.0005	<0.0005	<0.0005
2/8/2023		<0.0005		<0.0005	0.00046 (J)				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
2/9/2023	<0.0005		<0.0005						
8/15/2023						<0.0005	<0.0005	<0.0005	<0.0005
8/16/2023	0.00021 (J)		0.00048 (J)	<0.0005	0.00022 (J)				
8/17/2023		<0.0005							
2/20/2024						<0.0005	<0.0005		<0.0005
2/21/2024			0.00035 (J)						
2/22/2024		<0.0005		<0.0005	0.00022 (J)				
2/23/2024	0.00023 (J)							<0.0005	
8/20/2024						<0.0005	<0.0005		<0.0005
8/21/2024		<0.0005						<0.0005	
8/22/2024	0.00018 (J)		0.00025 (J)						
8/23/2024				<0.0005	0.00023 (J)				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	<0.0005
7/27/2016	
7/28/2016	<0.0005
9/16/2016	
9/19/2016	<0.0005
11/2/2016	
11/3/2016	<0.0005
1/11/2017	
1/13/2017	<0.0005
3/1/2017	
3/2/2017	
3/6/2017	<0.0005
4/26/2017	<0.0005
5/2/2017	
6/28/2017	
6/29/2017	<0.0005
3/28/2018	
3/29/2018	<0.0005
6/5/2018	<0.0005
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	9.6E-05 (J)
10/16/2018	
3/5/2019	<0.0005
3/6/2019	
4/2/2019	<0.0005
4/3/2019	
9/24/2019	<0.0005
9/25/2019	
9/26/2019	
2/11/2020	
2/12/2020	<0.0005
3/24/2020	<0.0005
3/25/2020	
9/23/2020	
9/24/2020	<0.0005
2/9/2021	0.00041 (J)
3/3/2021	
3/4/2021	<0.0005
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	<0.0005
2/9/2022	<0.0005
2/10/2022	
8/30/2022	<0.0005
8/31/2022	
9/1/2022	
2/7/2023	0.00012 (J)
2/8/2023	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
2/9/2023	
8/15/2023	<0.0005
8/16/2023	
8/17/2023	
2/20/2024	<0.0005
2/21/2024	
2/22/2024	
2/23/2024	
8/20/2024	<0.0005
8/21/2024	
8/22/2024	
8/23/2024	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.0005	<0.0005	<0.0005				
6/7/2016						<0.0005			
7/26/2016			<0.0005	<0.0005	<0.0005				
7/28/2016						<0.0005			
8/30/2016									<0.0005
8/31/2016									
9/14/2016			<0.0005	<0.0005	<0.0005				
9/20/2016						<0.0005			
11/2/2016			<0.0005	<0.0005					
11/4/2016					<0.0005				
11/8/2016						7E-05 (J)			
11/16/2016									<0.0005
1/12/2017				<0.0005	9E-05 (J)				
1/13/2017			<0.0005						
1/16/2017						<0.0005			
2/24/2017									
2/27/2017									<0.0005
3/6/2017			<0.0005						
3/7/2017				<0.0005	<0.0005				
3/9/2017						<0.0005			
5/1/2017			<0.0005	<0.0005					
5/2/2017					<0.0005	<0.0005			
5/10/2017									0.0002 (J)
6/27/2017				<0.0005	<0.0005				
6/29/2017			<0.0005						
7/10/2017						<0.0005			
7/11/2017									0.0005 (J)
10/11/2017	<0.0005								
10/12/2017		<0.0005					0.003	0.0002 (J)	0.0006 (J)
11/20/2017	<0.0005	<0.0005					0.0027		
11/21/2017								0.0003 (J)	
1/10/2018		<0.0005							
1/11/2018	<0.0005							0.0002 (J)	
1/12/2018							0.0029		
2/19/2018		<0.0005						<0.0005	
2/20/2018	<0.0005						0.0029		
3/29/2018			<0.0005	<0.0005	<0.0005				
3/30/2018						<0.0005			
4/3/2018	<0.0005	<0.0005					0.0027	<0.0005	
4/4/2018									<0.0005
6/6/2018				<0.0005					
6/7/2018			<0.0005		<0.0005				
6/12/2018						<0.0005			
6/27/2018								0.00025 (J)	
6/28/2018	<0.0005	<0.0005					0.0029		
8/7/2018	<0.0005	<0.0005					0.0027	0.00024 (J)	
9/20/2018									0.0002 (J)
9/24/2018	<0.0005	<0.0005					0.0027	0.00021 (J)	
9/26/2018			<0.0005	<0.0005	<0.0005				
9/27/2018						<0.0005			
3/4/2019			<0.0005	<0.0005	<0.0005				
3/6/2019						<0.0005			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
4/3/2019			<0.0005	<0.0005	<0.0005				
4/4/2019						<0.0005			
8/21/2019	<0.0005	<0.0005							
8/22/2019							0.0023 (J)	0.00015 (J)	0.00017 (J)
9/24/2019				<0.0005	<0.0005				
9/25/2019			<0.0005						
9/27/2019						<0.0005			
10/9/2019	<0.0005	<0.0005					0.0021 (J)	0.00017 (J)	0.00025 (J)
2/12/2020	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005				
3/24/2020		<0.0005		<0.0005	<0.0005				
3/25/2020	<0.0005		<0.0005				0.0018 (J)	0.00018 (J)	0.00021 (J)
3/26/2020						<0.0005			
9/22/2020			<0.0005	<0.0005	<0.0005				
9/24/2020	<0.0005	<0.0005				<0.0005			0.00014 (J)
9/25/2020							0.0015 (J)	0.00014 (J)	
2/8/2021				<0.0005	<0.0005				
2/9/2021			<0.0005			<0.0005	0.0014 (J)		
2/10/2021	0.00019 (J)	<0.0005						<0.0005	<0.0005
3/2/2021				<0.0005	<0.0005				
3/3/2021			<0.0005						
3/4/2021	0.0003 (J)	<0.0005				<0.0005	0.0013	<0.0005	<0.0005
8/25/2021						<0.0005			<0.0005
8/26/2021	0.00049 (J)		<0.0005	<0.0005	<0.0005		0.0011	<0.0005	
9/3/2021		<0.0005							
9/27/2021									
2/8/2022	0.00063	<0.0005						0.00012 (J)	
2/10/2022				<0.0005	<0.0005	<0.0005	0.0011		<0.0005
2/11/2022			<0.0005						
8/30/2022				<0.0005	<0.0005				
8/31/2022	0.00044 (J)	<0.0005	<0.0005						
9/1/2022						<0.0005	0.00094	<0.0005	<0.0005
2/7/2023	0.00014 (J)			<0.0005					
2/8/2023		<0.0005				<0.0005	0.00068	<0.0005	0.00014 (J)
2/9/2023			<0.0005		<0.0005				
8/15/2023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005				
8/16/2023						<0.0005	0.00074	<0.0005	<0.0005
2/20/2024	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005				
2/21/2024						<0.0005			
2/22/2024							0.00074	<0.0005	<0.0005
8/20/2024			0.00019 (J)	<0.0005	<0.0005				
8/21/2024	<0.0005	<0.0005				<0.0005			
8/22/2024									<0.0005
8/23/2024							0.00063	<0.0005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	<0.0005
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	<0.0005
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	<0.0005
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	<0.0005
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	<0.0005
10/11/2017	
10/12/2017	<0.0005
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	<0.0005
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	<0.0005
9/24/2018	
9/26/2018	
9/27/2018	
3/4/2019	
3/6/2019	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
4/3/2019	
4/4/2019	
8/21/2019	<0.0005
8/22/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	<0.0005
2/12/2020	
3/24/2020	
3/25/2020	<0.0005
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	<0.0005
2/8/2021	
2/9/2021	<0.0005
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	<0.0005
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	<0.0005
2/8/2022	<0.0005
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	<0.0005
2/7/2023	
2/8/2023	<0.0005
2/9/2023	
8/15/2023	
8/16/2023	<0.0005
2/20/2024	
2/21/2024	
2/22/2024	<0.0005
8/20/2024	
8/21/2024	
8/22/2024	<0.0005
8/23/2024	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/1/2007			<0.0005						
9/11/2007			<0.0005						
3/20/2008			<0.0005						
8/27/2008			<0.0005						
3/3/2009			<0.0005						
11/18/2009			<0.0005						
3/3/2010			<0.0005						
9/8/2010			<0.0005						
3/10/2011			<0.0005						
9/8/2011			<0.0005						
3/5/2012			<0.0005						
9/10/2012			<0.0005						
2/6/2013			<0.0005						
8/12/2013			<0.0005						
2/5/2014			<0.0005						
8/5/2014			<0.0005						
2/4/2015			<0.0005						
8/3/2015			<0.0005						
2/16/2016			<0.0005						
6/1/2016					<0.0005	<0.0005			
6/2/2016				<0.0005				<0.0005	<0.0005
7/25/2016						<0.0005		<0.0005	
7/26/2016				<0.0005	<0.0005				<0.0005
8/30/2016		0.0001 (J)							
8/31/2016			<0.0005						
9/1/2016	<0.0005								
9/13/2016					<0.0005	<0.0005			
9/14/2016							<0.0005		
9/15/2016				<0.0005					<0.0005
9/19/2016								<0.0005	
11/1/2016					<0.0005			<0.0005	<0.0005
11/2/2016				<0.0005					
11/4/2016						<0.0005	<0.0005		
11/14/2016		0.0001 (J)							
11/15/2016	<0.0005								
11/28/2016			<0.0005						
12/15/2016							<0.0005		
1/10/2017				<0.0005					
1/11/2017					0.0002 (J)				0.0001 (J)
1/16/2017						<0.0005	<0.0005	<0.0005	
2/21/2017								<0.0005	
2/22/2017			<0.0005						
2/24/2017		9E-05 (J)							
2/27/2017	7E-05 (J)								
3/1/2017									
3/2/2017					<0.0005	<0.0005			<0.0005
3/3/2017							<0.0005		
3/8/2017				7E-05 (J)					
4/26/2017				<0.0005				<0.0005	<0.0005
4/27/2017					<0.0005	<0.0005			
4/28/2017							<0.0005		
5/8/2017		0.0001 (J)	<0.0005						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/9/2017	<0.0005								
5/26/2017							<0.0005		
6/27/2017					<0.0005	<0.0005			
6/28/2017							<0.0005		<0.0005
6/30/2017				<0.0005				<0.0005	
7/11/2017		<0.0005							
7/13/2017	<0.0005								
7/17/2017			<0.0005						
10/10/2017		<0.0005							
10/11/2017	<0.0005								
10/16/2017			<0.0005						
2/19/2018			<0.0005						
3/27/2018				<0.0005		<0.0005		<0.0005	
3/28/2018							<0.0005		<0.0005
3/29/2018					<0.0005				
4/2/2018		<0.0005							
4/4/2018	<0.0005								
8/6/2018			<0.0005						
9/19/2018		<0.0005							
9/20/2018	<0.0005								
2/25/2019			<0.0005						
2/26/2019				<0.0005				<0.0005	
2/27/2019					<0.0005	<0.0005	<0.0005		<0.0005
3/28/2019					<0.0005	<0.0005			
3/29/2019				<0.0005			<0.0005		
4/1/2019								<0.0005	<0.0005
6/12/2019			<0.0005						
8/19/2019			<0.0005						
8/20/2019		<0.0005							
9/24/2019					<0.0005	<0.0005	<0.0005		
9/25/2019				<0.0005				<0.0005	<0.0005
9/26/2019	<0.0005								
10/8/2019		<0.0005	<0.0005						
2/10/2020					<0.0005	<0.0005			
2/11/2020							<0.0005		
2/12/2020				<0.0005				<0.0005	<0.0005
3/17/2020		<0.0005	<0.0005						
3/18/2020				<0.0005		<0.0005			
3/19/2020					<0.0005		<0.0005	<0.0005	<0.0005
3/25/2020	<0.0005								
8/26/2020			<0.0005						
8/27/2020		<0.0005							
9/22/2020			<0.0005						
9/23/2020					<0.0005	<0.0005	<0.0005		<0.0005
9/24/2020	<0.0005							<0.0005	
9/25/2020				<0.0005					
2/9/2021	<0.0005								
2/10/2021				<0.0005			<0.0005		<0.0005
2/11/2021								<0.0005	
2/12/2021					<0.0005	<0.0005			
3/1/2021								<0.0005	
3/2/2021			<0.0005	<0.0005					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
3/3/2021					<0.0005	<0.0005	<0.0005		<0.0005
3/4/2021	<0.0005								
8/19/2021		<0.0005		<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
8/20/2021			<0.0005						
8/27/2021							<0.0005		
9/1/2021	<0.0005								
2/8/2022	<0.0005	<0.0005	<0.0005						
2/9/2022					<0.0005	<0.0005	<0.0005		<0.0005
2/10/2022				<0.0005					
2/11/2022								<0.0005	
8/30/2022			<0.0005		<0.0005		<0.0005		
8/31/2022	<0.0005	<0.0005		<0.0005		<0.0005		<0.0005	<0.0005
2/7/2023			0.00012 (J)		<0.0005	<0.0005	<0.0005		
2/8/2023		0.00032 (J)		<0.0005				<0.0005	<0.0005
2/9/2023	<0.0005								
8/15/2023		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
8/16/2023	<0.0005							<0.0005	
2/20/2024		<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2/21/2024	<0.0005								
2/23/2024				<0.0005					
8/20/2024		<0.0005		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
8/22/2024	<0.0005								

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/1/2007	
9/11/2007	
3/20/2008	
8/27/2008	
3/3/2009	
11/18/2009	
3/3/2010	
9/8/2010	
3/10/2011	
9/8/2011	
3/5/2012	
9/10/2012	
2/6/2013	
8/12/2013	
2/5/2014	
8/5/2014	
2/4/2015	
8/3/2015	
2/16/2016	
6/1/2016	<0.0005
6/2/2016	
7/25/2016	<0.0005
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	<0.0005
9/15/2016	
9/19/2016	
11/1/2016	<0.0005
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	8E-05 (J)
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	<0.0005
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	<0.0005
4/27/2017	
4/28/2017	
5/8/2017	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	<0.0005
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	<0.0005
3/29/2018	
4/2/2018	
4/4/2018	
8/6/2018	
9/19/2018	
9/20/2018	
2/25/2019	
2/26/2019	
2/27/2019	<0.0005
3/28/2019	
3/29/2019	
4/1/2019	<0.0005
6/12/2019	
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	<0.0005
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	<0.0005
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	<0.0005
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	<0.0005
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	<0.0005
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
3/3/2021	<0.0005
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	<0.0005
9/1/2021	
2/8/2022	
2/9/2022	<0.0005
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	<0.0005
2/7/2023	
2/8/2023	0.00013 (J)
2/9/2023	
8/15/2023	
8/16/2023	<0.0005
2/20/2024	<0.0005
2/21/2024	
2/23/2024	
8/20/2024	<0.0005
8/22/2024	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50	PZ-54D
6/8/2016							<0.0005		
8/1/2016							<0.0005		
9/2/2016			<0.001						
9/20/2016							<0.0005		
11/8/2016							<0.0005		
11/14/2016			9E-05 (J)						
1/17/2017							<0.0005		
2/28/2017			0.0001 (J)						
3/8/2017							<0.0005		
5/2/2017							<0.0005		
5/9/2017			0.0002 (J)						
7/7/2017							<0.0005		
7/13/2017			0.0002 (J)						
9/22/2017			0.0002 (J)						
9/29/2017			0.0002 (J)						
10/6/2017			0.0002 (J)						
10/12/2017		0.0002 (J)							
11/21/2017		0.0002 (J)							
1/11/2018		0.0004 (J)							
2/20/2018		<0.001							
3/30/2018			<0.001				<0.0005		
4/3/2018		<0.001							
6/12/2018							<0.0005		
6/13/2018			0.00019 (J)						
6/29/2018		0.00099 (J)							
8/6/2018		0.00063 (J)							
9/24/2018		0.00069 (J)							
9/26/2018			0.00018 (J)				<0.0005		
10/16/2018	<0.0005								
3/5/2019							<0.0005		
3/6/2019			0.00015 (J)						
4/4/2019			0.00019 (J)				<0.0005		
9/26/2019	<0.0005		0.00017 (J)				<0.0005		
3/25/2020	0.00016 (J)		0.00019 (J)						
3/26/2020							<0.0005		
9/23/2020							<0.0005		
9/24/2020	<0.0005								
9/25/2020		0.00039 (J)							
10/7/2020			0.00012 (J)						
2/9/2021		0.00042 (J)					<0.0005		
2/10/2021	<0.0005		<0.0005						
3/3/2021							<0.0005		
3/4/2021	<0.0005	0.00028 (J)	<0.0005						
8/25/2021		0.00094							
9/1/2021	<0.0005						<0.0005		
9/3/2021			<0.0005	<0.0005					
2/10/2022	<0.0005	0.00093				0.0019	<0.0005		
2/11/2022			<0.0005	<0.0005	<0.0005				
8/31/2022	0.00011 (J)								
9/1/2022		0.0009	<0.0005	<0.0005	<0.0005	0.0017			
2/8/2023		0.00076		<0.0005	<0.0005				
2/9/2023	0.00025 (J)		<0.0005			0.0018			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50	PZ-54D
2/10/2023							<0.0005		
8/16/2023	0.0002 (J)		<0.0005	<0.0005		0.0017	<0.0005		
8/17/2023		0.00085			<0.0005			0.018	
12/20/2023								0.012	
2/21/2024		0.00086		<0.0005	<0.0005				
2/22/2024						0.0017		0.011	
2/23/2024	0.00027 (J)		<0.0005				<0.0005		
6/10/2024								0.013	
6/12/2024									0.00042 (J)
8/21/2024		0.00081		<0.0005	<0.0005				
8/22/2024	0.00021 (J)		0.00014 (J)			0.0017	<0.0005		
8/23/2024								0.01	
11/7/2024									0.00038 (J)
11/26/2024								0.015	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							6.2	1.4	
6/7/2016						2.2			2.3
7/27/2016						2	4.73	1.19	2.08
7/28/2016									
9/16/2016						1.97		1.5	
9/19/2016							4.76		1.97
11/2/2016									2.13
11/3/2016						1.99	5.25	1.31	
1/11/2017						2.28	4.74	1.25	
1/13/2017									2.45
3/1/2017							5.37	1.26	
3/2/2017						2.15			
3/6/2017									2.48
4/26/2017							4.28	1.05	2.3
5/2/2017						1.95			
6/28/2017							4.95	1.06	
6/29/2017						2.02			2.54
10/3/2017									
10/4/2017						2.03		1.1	2.25
10/5/2017							5.28		
6/5/2018									
6/6/2018									2.3
6/7/2018							4.8		
6/11/2018						2.1		1.4	
9/25/2018						2.1	4.6	1	2.3
10/16/2018	14.5 (J)								
4/2/2019						2.5			
4/3/2019							5.3	1.2	2.9
9/24/2019									
9/25/2019						2.6			2.4
9/26/2019	9.3						4.9	1.1	
3/24/2020						2.7	5.3	1	2.6
3/25/2020	4.5								
9/23/2020		1.7		10.5		2.6	5.2	0.91 (J)	
9/24/2020	4.8				61.3				2.6
3/3/2021	6.9	1.5		20.6		2.5	5.2	0.96 (J)	2.4
3/4/2021					53.8				
8/25/2021				11					
8/26/2021					45			0.98 (J)	
8/27/2021						2.7	5.1		2.4
9/1/2021	16.8	1.4							
9/3/2021			42.5						
2/9/2022						2.8	5.1	0.87 (J)	2.3
2/10/2022	21.5	1.3	29.4	11.6	40.8				
8/30/2022						3	5.7	0.77 (J)	
8/31/2022	27								2.4
9/1/2022		1.4	34.4	11.1	43.7				
2/7/2023						2.9	5.5	0.79 (J)	2.4
2/8/2023		1.2		12	52.3				
2/9/2023	31.7		33						
8/15/2023						2.9	5.1	0.8 (J)	2.2
8/16/2023	28.7		21.4	11.9	51				

Time Series

Constituent: Calcium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
8/17/2023		1.4							
2/20/2024						3.2	5.6		2.5
2/21/2024			39.7						
2/22/2024		1.2		14.4	52.7				
2/23/2024	46.3							0.84 (J)	
8/20/2024						3.5	5.9		2.8
8/21/2024		1.4						0.96 (J)	
8/22/2024	52.9		48.6						
8/23/2024				14.4	59				

Time Series

Constituent: Calcium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	3.7
7/27/2016	
7/28/2016	3.15
9/16/2016	
9/19/2016	3.17
11/2/2016	
11/3/2016	3.4
1/11/2017	
1/13/2017	4.98
3/1/2017	
3/2/2017	
3/6/2017	6.28
4/26/2017	6.65
5/2/2017	
6/28/2017	
6/29/2017	6.04
10/3/2017	8.28
10/4/2017	
10/5/2017	
6/5/2018	9.1
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	10.4 (J)
10/16/2018	
4/2/2019	8.8
4/3/2019	
9/24/2019	7.7
9/25/2019	
9/26/2019	
3/24/2020	6
3/25/2020	
9/23/2020	
9/24/2020	7.8
3/3/2021	
3/4/2021	8.7
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	9.5
9/3/2021	
2/9/2022	9.8
2/10/2022	
8/30/2022	7.3
8/31/2022	
9/1/2022	
2/7/2023	7.5
2/8/2023	
2/9/2023	
8/15/2023	6.1
8/16/2023	

Time Series

Constituent: Calcium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
8/17/2023	
2/20/2024	7
2/21/2024	
2/22/2024	
2/23/2024	
8/20/2024	6.9
8/21/2024	
8/22/2024	
8/23/2024	

Time Series

Constituent: Calcium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			8.8	33	2.4				
6/7/2016						9.6			
7/26/2016			7.69	32.3	2.12				
7/28/2016						7.87			
8/30/2016									133
8/31/2016									
9/14/2016			8.49	31	2.18				
9/20/2016						9.28			
11/2/2016			7.83	30.9					
11/4/2016					2.17 (J)				
11/8/2016						8.6			
11/16/2016									125
1/12/2017				35.7	2.37				
1/13/2017			8.08						
1/16/2017						8.85			
2/24/2017									
2/27/2017									139
3/6/2017			8.64						
3/7/2017				32.7	2.34				
3/9/2017						8.4			
5/1/2017			13.4	37					
5/2/2017					2.17	12.9			
5/10/2017									130
6/27/2017				36.5	2.13				
6/29/2017			8.81						
7/10/2017						8.09			
7/11/2017									172
10/3/2017				30.9	2.15				
10/5/2017			9.29						
10/11/2017	2.74					6.36			
10/12/2017		2.9					190	44.5	144
11/20/2017	1.81	10.4					184		
11/21/2017								44.4	
1/10/2018		10.2							
1/11/2018	1.54							43.9	
1/12/2018							178		
2/19/2018		<25						45.3	
2/20/2018	1.71						184		
4/3/2018	1.4	6.3					174	42.7	
4/4/2018									137
6/6/2018				26.2					
6/7/2018			8.2		2.3				
6/12/2018						4.7			
6/27/2018								42.2	
6/28/2018	1.4	6.7					190		
8/7/2018	1.2	6.3					176	40.7	
9/20/2018									108
9/24/2018	1.1	5.7					172	38.5	
9/26/2018			9.5 (J)	25.8	2.3				
9/27/2018						4.1			
3/26/2019		5.6							
3/27/2019	1.5						155		109

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
3/28/2019								26	
4/3/2019			8.4	24.7 (J)	2.8				
4/4/2019						3.7			
9/24/2019				25.8	2.5				
9/25/2019			9.5						
9/27/2019						3.7			
10/9/2019	2.4	4.9					133	27.6	92
3/24/2020		4.8		26.1	2.5				
3/25/2020	2.7		10.5				124	29.6	107
3/26/2020						5.6			
9/22/2020			9.6	27.2	2.6				
9/24/2020	3.7	4.4				7.9			84.3
9/25/2020							93.7	20.5	
3/2/2021				1.6	2.6				
3/3/2021			7.7						
3/4/2021	8.2	4.6				10.2	87	16.4	90.7
8/25/2021						10.6			79.9
8/26/2021	14.1		7.6	25.2	2.5		73.6	12.8	
9/3/2021		5.6							
9/27/2021									
2/8/2022	15.2	6						15	
2/10/2022				24.8	2.5	11.8	68.9		74.4
2/11/2022			7.5						
8/30/2022				24.8	2.5				
8/31/2022	16.3	6.2	8.9						
9/1/2022						11.2	59.4	12.9	68.5
2/7/2023	16.1			26.6					
2/8/2023		5.9				10.9	55.3	14.4	74.6
2/9/2023			9.6		2.8				
8/15/2023	17.2	5.3	7.8	25	2.6				
8/16/2023						11.2	50.9	13.5	69.2
2/20/2024	16.9	5.6	9.9	27.2	2.7				
2/21/2024						11.1			
2/22/2024							49.7	14.4	73.5
8/20/2024			9.1	29.1	3.2				
8/21/2024	19.7	6				13			
8/22/2024									64.4
8/23/2024							43.8	13.6	

Time Series

Constituent: Calcium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	3.4
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	3.79
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	6.42
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	7.9
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	6.71
10/3/2017	
10/5/2017	
10/11/2017	
10/12/2017	7.05
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
4/3/2018	
4/4/2018	8.6
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	15.9 (J)
9/24/2018	
9/26/2018	
9/27/2018	
3/26/2019	
3/27/2019	

Time Series

Constituent: Calcium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
3/28/2019	8.9
4/3/2019	
4/4/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	18.2
3/24/2020	
3/25/2020	12.1
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	19.8
3/2/2021	
3/3/2021	
3/4/2021	32.2
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	4.1
2/8/2022	9.9
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	10.7
2/7/2023	
2/8/2023	11
2/9/2023	
8/15/2023	
8/16/2023	10.7
2/20/2024	
2/21/2024	
2/22/2024	10.5
8/20/2024	
8/21/2024	
8/22/2024	14.8
8/23/2024	

Time Series

Constituent: Calcium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/1/2016					12	2.5			
6/2/2016				1.3				1.3	28
7/25/2016						2.16		1.17	
7/26/2016				1.24	11				24.5
8/30/2016		20.9							
8/31/2016			9.31						
9/1/2016	13.9								
9/13/2016					11.8	2.21			
9/14/2016							23.5		
9/15/2016				1.17					27
9/19/2016								1.05	
11/1/2016					11			1.14	25.6
11/2/2016				1.23					
11/4/2016						2.67	23.7		
11/14/2016		18.6							
11/15/2016	13.5								
11/28/2016			9.47 (B)						
12/15/2016							23.1		
1/10/2017				1.24					
1/11/2017					11.2				27.5
1/16/2017						2.45	23.3	1.23	
2/21/2017								1.25	
2/22/2017			10.4						
2/24/2017		16.1							
2/27/2017	12.5								
3/1/2017									
3/2/2017					11	2.57			27.5
3/3/2017							25.1		
3/8/2017				1.21					
4/26/2017				1.14				1.03	30.4
4/27/2017					11.1	2.38			
4/28/2017							30.7		
5/8/2017		14.6	14.2						
5/9/2017	14.4								
5/26/2017							26.2		
6/27/2017					13.8	2.36			
6/28/2017							26.1		29.8
6/30/2017				1.24				1.13	
7/11/2017		14.3							
7/13/2017	14.1								
7/17/2017			14.1						
10/3/2017					14	2.21	26.7		
10/4/2017								1.09	29.7
10/5/2017				1.11					
10/10/2017		12.1							
10/11/2017	12.4								
10/16/2017			13.6						
2/19/2018			<25						
4/2/2018		<25							
4/4/2018	<25								
6/5/2018					15.2 (J)				
6/6/2018						2.3			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/7/2018							25		29.1
6/8/2018				1.1					
6/11/2018								1.1	
8/6/2018			11.4 (J)						
9/19/2018		11.1 (J)							
9/20/2018	12 (J)								
10/1/2018				0.99	15.1	1.8	25		26.9
10/2/2018								1.1	
2/25/2019			12.7 (J)						
3/27/2019		10.8 (J)							
3/28/2019	11.3 (J)				13.3 (J)	2.2			
3/29/2019				1.1			23.5 (J)		
4/1/2019								1.3	30.1
6/12/2019			18.9						
9/24/2019					15.8	2.3	26.4		
9/25/2019				1.1				1.1	29.5
9/26/2019	12.1								
10/8/2019		9.7	28.3						
3/17/2020		14.8	24.3						
3/18/2020				1.1		2.1			
3/19/2020					15		27.4	1.2	31.5
3/25/2020	13.2								
9/22/2020		10.1	31						
9/23/2020					14.1	1.8	26.3		28.6
9/24/2020	12							1.1	
9/25/2020				1.3					
3/1/2021		10.3						1.2	
3/2/2021			34.2	1.2					
3/3/2021					14.1	1.8	25.6		29.8
3/4/2021	13								
8/19/2021		9.6		1.2	14.2	2		1.2	28.1
8/20/2021			26.5						
8/27/2021							22.6		
9/1/2021	12.1								
2/8/2022	12.7	9.4	25.6						
2/9/2022					14.9	2.1	23.4		30.3
2/10/2022				1.3					
2/11/2022								1.5	
8/30/2022			23.5		14.9		25.4		
8/31/2022	11.6	9.6		1.3		1.9		1.3	28.7
2/7/2023			22.3		15	2.2	25.6		
2/8/2023		9.2		1.5				1.3	28.9
2/9/2023	11.8								
8/15/2023		9.6	20.3	1.3	13.5	1.8	23.2		27.4
8/16/2023	11.1							1.4	
2/20/2024		10.3	22.8		15.3	2.2	28.2	1.3	30.7
2/21/2024	11.1								
2/23/2024				1.6					
8/20/2024		10		1.3	17.7	1.9	30.4	1.4	30
8/22/2024	10.8								

Time Series

Constituent: Calcium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/1/2016	21
6/2/2016	
7/25/2016	20.3
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	19.7
9/15/2016	
9/19/2016	
11/1/2016	18.4
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	20.3
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	18.6
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	25.6
4/27/2017	
4/28/2017	
5/8/2017	
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	23.9
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/3/2017	
10/4/2017	22.1
10/5/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
4/2/2018	
4/4/2018	
6/5/2018	
6/6/2018	

Time Series

Constituent: Calcium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/7/2018	
6/8/2018	21.9 (J)
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	19.7
10/2/2018	
2/25/2019	
3/27/2019	
3/28/2019	
3/29/2019	
4/1/2019	20.4 (J)
6/12/2019	
9/24/2019	
9/25/2019	22.4
9/26/2019	
10/8/2019	
3/17/2020	
3/18/2020	
3/19/2020	21.9
3/25/2020	
9/22/2020	
9/23/2020	23.6
9/24/2020	
9/25/2020	
3/1/2021	
3/2/2021	
3/3/2021	20.6
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	24.7
9/1/2021	
2/8/2022	
2/9/2022	23.7
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	23.5
2/7/2023	
2/8/2023	23.3
2/9/2023	
8/15/2023	
8/16/2023	24.9
2/20/2024	23.7
2/21/2024	
2/23/2024	
8/20/2024	23.4
8/22/2024	

Time Series

Constituent: Calcium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50	PZ-54D
6/8/2016							1.9		
8/1/2016							1.83		
9/2/2016			11.2						
9/20/2016							1.78		
11/8/2016							1.77		
11/14/2016			7.79						
1/17/2017							1.7		
2/28/2017			8.37						
3/8/2017							1.77		
5/2/2017							1.57		
5/9/2017			13.9						
7/7/2017							1.8		
7/13/2017			16.6						
9/22/2017			18.4						
9/29/2017			16.1						
10/5/2017							1.7		
10/6/2017			16.6						
10/11/2017			18.1						
10/12/2017		122							
11/21/2017		118							
1/11/2018		119							
2/20/2018		124							
4/3/2018		114							
6/12/2018							1.8		
6/13/2018			18.7 (J)						
6/29/2018		129							
8/6/2018		114							
9/24/2018		115							
9/26/2018			19.8 (J)				1.7		
10/16/2018	6.5								
4/4/2019			16.9 (J)				1.9		
9/26/2019	4.7		11.7				1.7		
3/25/2020	7.9		10.6						
3/26/2020							1.7		
9/23/2020							2.4		
9/24/2020	3.6								
9/25/2020		108							
10/7/2020			9.9						
3/3/2021							2.4		
3/4/2021	4.4	118	5.6						
8/25/2021		106							
9/1/2021	7.9						2.3		
9/3/2021			4.1	64					
2/10/2022	8.8	106				54.7	2.2		
2/11/2022			4.6	49	27.3				
8/31/2022	11.8								
9/1/2022		99.9	6.3	67.9	22.8	52.5			
2/8/2023		95.9		55.2	22.9				
2/9/2023	14.5		9.2			54.3			
2/10/2023							2.4		
8/16/2023	21.5		20	67.5		52	2.2		
8/17/2023		101			22.1			229	

Time Series

Constituent: Calcium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50	PZ-54D
12/20/2023								272	
2/21/2024		103		65.9	24.5				
2/22/2024						54.8		267	
2/23/2024	31.1		33.6				2.6		
6/10/2024								57.5	
6/12/2024									38.4
8/21/2024		111		86.6	26.7				
8/22/2024	22.8		41.1			57.2	2.3		
8/23/2024								304	
11/7/2024									60.6
11/26/2024								308	

Time Series

Constituent: Chloride (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							6.8	6.4	
6/7/2016						4.5			1.9
7/27/2016						4.5	6.7	6.2	1.9
7/28/2016									
9/16/2016						4.5		6.1	
9/19/2016							7		1.9
11/2/2016									2.6
11/3/2016						5.4	7.5	7.4	
1/11/2017						4.7	6.5	6.1	
1/13/2017									2.3
3/1/2017							6.9	6	
3/2/2017						4.8			
3/6/2017									1.9
4/26/2017							7	6.5	2
5/2/2017						4.6			
6/28/2017							7	6.4	
6/29/2017						4.5			2.6
10/3/2017									
10/4/2017						4.7		6.8	2.6
10/5/2017							7		
6/5/2018									
6/6/2018									2.7
6/7/2018							6.8		
6/11/2018						4.9		6.8	
9/25/2018						5.6	7.9	7.8	3.6
10/16/2018	12.1								
4/2/2019						4.8			
4/3/2019							6.9	6.3	3.1
9/24/2019									
9/25/2019						5.7			2.8
9/26/2019	6.4						7	7.1	
3/24/2020						5	7	6.8	2.7
3/25/2020	7.7								
9/23/2020		2.7		1.8		6.6	7.2	7.2	
9/24/2020	6.6				3.7				2.7
3/3/2021	6.1	2.5		22.9		7.1	7	7.2	2.7
3/4/2021					3.7				
8/25/2021				1.5					
8/26/2021					3.9			7.3	
8/27/2021						8.5	7.4		2.8
9/1/2021	5.7	2.6							
2/9/2022						10.9	7.5	7	2.8
2/10/2022	5.3	2.5	3.2	1.4	3.9				
8/30/2022						12	7.9	7	
8/31/2022	5.3								2.9
9/1/2022		2.4	10.2	1.4	3.6				
2/7/2023						11.4	7.4	6.4	2.9
2/8/2023		2.5		1.5	3.8				
2/9/2023	5.4		9.6						
8/15/2023						11.6	7.3	6.7	2.8
8/16/2023	4.9		2.2	1.4	3.6				
8/17/2023		2.7							

Time Series

Constituent: Chloride (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
2/20/2024						12.2	7.6		2.9
2/21/2024			3.5						
2/22/2024		2.3		1.5	3.7				
2/23/2024	5.2							6.6	
8/20/2024						12.7	7.8		3
8/21/2024		2.4						7.4	
8/22/2024	5.7		4.4						
8/23/2024				1.8	3.8				

Time Series

Constituent: Chloride (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	2.8
7/27/2016	
7/28/2016	2.6
9/16/2016	
9/19/2016	2.4
11/2/2016	
11/3/2016	2.9
1/11/2017	
1/13/2017	2.5
3/1/2017	
3/2/2017	
3/6/2017	2.1
4/26/2017	2.1
5/2/2017	
6/28/2017	
6/29/2017	2.8
10/3/2017	2.2
10/4/2017	
10/5/2017	
6/5/2018	1.7
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	2.2
10/16/2018	
4/2/2019	2.5
4/3/2019	
9/24/2019	3.1
9/25/2019	
9/26/2019	
3/24/2020	2.8
3/25/2020	
9/23/2020	
9/24/2020	2
3/3/2021	
3/4/2021	1.8
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	1.8
2/9/2022	1.7
2/10/2022	
8/30/2022	2.4
8/31/2022	
9/1/2022	
2/7/2023	2.4
2/8/2023	
2/9/2023	
8/15/2023	2.3
8/16/2023	
8/17/2023	

Time Series

Constituent: Chloride (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
2/20/2024	2.3
2/21/2024	
2/22/2024	
2/23/2024	
8/20/2024	2.3
8/21/2024	
8/22/2024	
8/23/2024	

Time Series

Constituent: Chloride (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			3.7	7.2	4.3				
6/7/2016						2.9			
7/26/2016			3.6	6.6	4.4				
7/28/2016						3.5			
8/30/2016									4.4
8/31/2016									
9/14/2016			3.4	6.6	3.8				
9/20/2016						2.4			
11/2/2016			4.5	7.6					
11/4/2016					4.8				
11/8/2016						2.8			
11/16/2016									4.7
1/12/2017				6.8	3.8				
1/13/2017			4.2						
1/16/2017						1.8			
2/24/2017									
2/27/2017									4.7
3/6/2017			3.6						
3/7/2017				6.8	4.5				
3/9/2017						1.7			
5/1/2017			4.3	7.2					
5/2/2017					4.6	1.8			
5/10/2017									4.4
6/27/2017				7	4.3				
6/29/2017			4.2						
7/10/2017						1.9			
7/11/2017									4.7
10/3/2017				6.5	4.2				
10/5/2017			4.7						
10/11/2017	2.4					2.4			
10/12/2017		3.8					6	3.1	4.3
11/20/2017	1.8	4.4					6.9		
11/21/2017								4.2	
1/10/2018		4.6							
1/11/2018	1.6							3.8	
1/12/2018							6.6		
2/19/2018		4.6						3.5	
2/20/2018	2						6.2		
4/3/2018	3.3	5.9					6.9	4.4	
4/4/2018									3.7
6/6/2018				4.7					
6/7/2018			4.4		4.5				
6/12/2018						1.8			
6/27/2018								3.6	
6/28/2018	2.1	5					6.4		
8/7/2018	1.2	4.3					5.5	3.3	
9/20/2018									3.8
9/24/2018	1.3	4.9					5.9	3.3	
9/26/2018			4.8	4.8	5.1				
9/27/2018						2			
3/26/2019		4.4							
3/27/2019	1.4						6.2		3.9

Time Series

Constituent: Chloride (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
3/28/2019								3.2	
4/3/2019			4.3	4	4.2				
4/4/2019						1.7			
9/24/2019				3.7	4.5				
9/25/2019			4.5						
9/27/2019						1.7			
10/9/2019	2.1	5.1					5	3.3	4.1
3/24/2020		4.7		3.5	4.3				
3/25/2020	1.9		3.9				4	2.7	3.2
3/26/2020						1.6			
9/22/2020			4.5	3.6	4.2				
9/24/2020	2.7	5				2			3.3
9/25/2020							4	3	
3/2/2021				3.2	4.3				
3/3/2021			4.1						
3/4/2021	4.9	4.9				1.8	3.9	3.4	2.7
8/25/2021						2.5			3.4
8/26/2021	7.2		4.4	3.4	4.3		4.1	3.6	
9/3/2021		5.5							
9/27/2021									
2/8/2022	7.4	6.2						3.5	
2/10/2022				3.2	4.4	1.9	4		3.3
2/11/2022			4.1						
8/30/2022				3.5	4.4				
8/31/2022	6.7	6.3	4.4						
9/1/2022						2	4.2	3.8	3.3
2/7/2023	5.6			3.3					
2/8/2023		6.9				2	3.9	4	3.4
2/9/2023			4.5		5				
8/15/2023	4.5	5.6	4.4	3.1	4.1				
8/16/2023						2.7	3.7	3.7	2.8
2/20/2024	4.6	5.7	4.6	3.2	4.8				
2/21/2024						2.4			
2/22/2024							3.7	3.9	3.3
8/20/2024			5.2	3.4	4.8				
8/21/2024	4	5.4				2.6			
8/22/2024									3.1
8/23/2024							4	3.9	

Time Series

Constituent: Chloride (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	1.5
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	1.7
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	1.5
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	1.2
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	1.5
10/3/2017	
10/5/2017	
10/11/2017	
10/12/2017	1.6
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
4/3/2018	
4/4/2018	1.8
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	1.9
9/24/2018	
9/26/2018	
9/27/2018	
3/26/2019	
3/27/2019	

Time Series

Constituent: Chloride (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
3/28/2019	1.8
4/3/2019	
4/4/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	2.3
3/24/2020	
3/25/2020	1.8
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	2.3
3/2/2021	
3/3/2021	
3/4/2021	2.1
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	1.1
2/8/2022	2.1
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	2.1
2/7/2023	
2/8/2023	2.4
2/9/2023	
8/15/2023	
8/16/2023	2.3
2/20/2024	
2/21/2024	
2/22/2024	2.3
8/20/2024	
8/21/2024	
8/22/2024	2.7
8/23/2024	

Time Series

Constituent: Chloride (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/1/2016					1.3	1.6			
6/2/2016				4.1				1.9	1.4
7/25/2016						1.4		1.7	
7/26/2016				4	1.2				1.6
8/30/2016		5.2							
8/31/2016			4						
9/1/2016	5.3								
9/13/2016					1.1	1.3			
9/14/2016							1.1		
9/15/2016				4.2					1.5
9/19/2016								1.6	
11/1/2016					1.3			1.8	1.7
11/2/2016				4.9					
11/4/2016						1.6	1.4		
11/14/2016		6.4							
11/15/2016	5.8								
11/28/2016			4.2						
12/15/2016							2.9		
1/10/2017				4.1					
1/11/2017					1.1				1.2
1/16/2017						1.4	0.98	1.7	
2/21/2017								1.7	
2/22/2017			3.7						
2/24/2017		5.5							
2/27/2017	4.6								
3/1/2017									
3/2/2017					1	1.3			1.2
3/3/2017							1.1		
3/8/2017				4.2					
4/26/2017				4.1				1.7	1.2
4/27/2017					1	1.3			
4/28/2017							0.91		
5/8/2017		5.8	4.2						
5/9/2017	5.3								
5/26/2017							0.93		
6/27/2017					1.1	1.4			
6/28/2017							1		1.3
6/30/2017				3.7				1.8	
7/11/2017		5.8							
7/13/2017	4.7								
7/17/2017			3.8						
10/3/2017					1.1	1.7	1.2		
10/4/2017								1.8	1.5
10/5/2017				3.8					
10/10/2017		5.9							
10/11/2017	5.8								
10/16/2017			4.2						
2/19/2018			4.3						
4/2/2018		4.8							
4/4/2018	4.3								
6/5/2018					1.1				
6/6/2018						1.4			

Time Series

Constituent: Chloride (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/7/2018							1		1.2
6/8/2018				3.4					
6/11/2018								2	
8/6/2018			3.8						
9/19/2018		4							
9/20/2018	4.8								
10/1/2018				3.8	1.1	1.4	1.1		1.5
10/2/2018								1.8	
2/25/2019			4.1						
3/27/2019		4.3							
3/28/2019	4.4				1.4	1.5			
3/29/2019				4.2			1.2		
4/1/2019								1.7	1.2
6/12/2019			4.7						
9/24/2019					1.1	1.3	0.95 (J)		
9/25/2019				4.8				1.6	1.1
9/26/2019	5								
10/8/2019		4.4	5.1						
3/17/2020		4.1	4.8						
3/18/2020				5.2		1.4			
3/19/2020					1.1		0.97 (J)	1.8	1.2
3/25/2020	4.1								
9/22/2020		4.2	4.2						
9/23/2020					0.99 (J)	1.2	0.88 (J)		1.1
9/24/2020	4.6							1.5	
9/25/2020				5.3					
3/1/2021		3.7						1.6	
3/2/2021			4.1	4.9					
3/3/2021					0.96 (J)	1.2	0.86 (J)		1.1
3/4/2021	4.1								
8/19/2021		3.5		5	1.1	1.3		1.6	1.1
8/20/2021			5.2						
8/27/2021							0.99 (J)		
9/1/2021	4.4								
2/8/2022	4.2	3.2	5.7						
2/9/2022					1	1.3	1 (J)		1.1
2/10/2022				4.7					
2/11/2022								2.1	
8/30/2022			6.3		1.3		1.2		
8/31/2022	4.3	3.5		4.6		1.5		1.8	1.3
2/7/2023			6.1		1.3	1.5	1.1		
2/8/2023		3.5		4.9				1.6	1.2
2/9/2023	4.4								
8/15/2023		3.5	5.6	4.1	1.1	1.4	0.93 (J)		1.1
8/16/2023	3.8							1.5	
2/20/2024		3.2	6.1		1	1.2	0.96 (J)	1.4	1.1
2/21/2024	4								
2/23/2024				4.8					
8/20/2024		3.6		4.5	1	1.3	0.91 (J)	1.4	1.1
8/22/2024	4.1								

Time Series

Constituent: Chloride (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/1/2016	1.3
6/2/2016	
7/25/2016	1.3
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	1.3
9/15/2016	
9/19/2016	
11/1/2016	1.4
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	1.1
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	1.1
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	1.1
4/27/2017	
4/28/2017	
5/8/2017	
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	1.2
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/3/2017	
10/4/2017	1.2
10/5/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
4/2/2018	
4/4/2018	
6/5/2018	
6/6/2018	

Time Series

Constituent: Chloride (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/7/2018	
6/8/2018	1.2
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	1.2
10/2/2018	
2/25/2019	
3/27/2019	
3/28/2019	
3/29/2019	
4/1/2019	1.1
6/12/2019	
9/24/2019	
9/25/2019	1.1
9/26/2019	
10/8/2019	
3/17/2020	
3/18/2020	
3/19/2020	1.1
3/25/2020	
9/22/2020	
9/23/2020	1
9/24/2020	
9/25/2020	
3/1/2021	
3/2/2021	
3/3/2021	0.99 (J)
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	1.1
9/1/2021	
2/8/2022	
2/9/2022	1.1
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	1.3
2/7/2023	
2/8/2023	1.1
2/9/2023	
8/15/2023	
8/16/2023	1.1
2/20/2024	1.1
2/21/2024	
2/23/2024	
8/20/2024	1
8/22/2024	

Time Series

Constituent: Chloride (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50	PZ-54D
6/8/2016							5.9		
8/1/2016							5.3		
9/2/2016			6.3						
9/20/2016							5.5		
11/8/2016							6.4		
11/14/2016			6.7						
1/17/2017							5.5		
2/28/2017			5.4						
3/8/2017							5.4		
5/2/2017							5.7		
5/9/2017			5.7						
7/7/2017							5.7		
7/13/2017			5.4						
9/22/2017			6.9						
9/29/2017			5.5						
10/5/2017							6		
10/6/2017			5.5						
10/11/2017			6.4						
10/12/2017		5.4							
11/21/2017		6.5							
1/11/2018		5							
2/20/2018		5.2							
4/3/2018		4.8							
6/12/2018							6.2		
6/13/2018			5.6						
6/29/2018		5.7							
8/6/2018		4.8							
9/24/2018		4.9							
9/26/2018			6				6.9		
10/16/2018	8.5								
4/4/2019			5.4				5.9		
9/26/2019	7.5		7.1				6.5		
3/25/2020	6.8		6.3						
3/26/2020							5.4		
9/23/2020							9.3		
9/24/2020	7.5								
9/25/2020		4.3							
10/7/2020			8.7						
3/3/2021							8.6		
3/4/2021	6.7	3.9	6.6						
8/25/2021		7							
9/1/2021	6.3						8.9		
9/3/2021			7	7.1					
2/10/2022	5.6	4.2				4.2	8.7		
2/11/2022			6.6	12.5	6.7				
8/31/2022	5.5								
9/1/2022		4.2	6.2	45.6	3.7	4			
2/8/2023		3.8		33.5	2				
2/9/2023	5.4		5.9			4.7			
2/10/2023							9.1		
8/16/2023	4.9		4.9	14.8		4.1	8.1		
8/17/2023		4.1			1.8			9.4	

Time Series

Constituent: Chloride (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50	PZ-54D
12/20/2023								9.8	
2/21/2024		4.5		18.9	1.6				
2/22/2024						4.3		9.8	
2/23/2024	4.8		4.8				8.3		
6/10/2024								9.9	
6/12/2024									2.8
8/21/2024		5.3		24	1.6				
8/22/2024	5		4.8			4.5	8.6		
8/23/2024								10.4	
11/7/2024									5.5
11/26/2024								10.5	

Time Series

Constituent: Chromium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							0.0012 (J)	<0.005	
6/7/2016						<0.005			<0.005
7/27/2016						0.0008 (J)	0.0007 (J)	0.0006 (J)	0.0005 (J)
7/28/2016									
9/16/2016						<0.005		<0.005	
9/19/2016							<0.005		<0.005
11/2/2016									<0.005
11/3/2016						<0.005	<0.005	<0.005	
1/11/2017						<0.005	<0.005	<0.005	
1/13/2017									<0.005
3/1/2017							0.0012 (J)	<0.005	
3/2/2017						0.001 (J)			
3/6/2017									<0.005
4/26/2017							0.0005 (J)	0.0003 (J)	0.0007 (J)
5/2/2017						0.0007 (J)			
6/28/2017							0.0006 (J)	<0.005	
6/29/2017						0.0006 (J)			0.0005 (J)
3/28/2018						<0.005	<0.005	<0.005	
3/29/2018									<0.005
3/5/2019						<0.005		<0.005	<0.005
3/6/2019							<0.005		
2/11/2020						0.00087 (J)	0.001 (J)	0.00088 (J)	
2/12/2020									0.00045 (J)
3/24/2020						0.00087 (J)	0.00095 (J)	0.0011 (J)	0.00077 (J)
3/25/2020	0.00058 (J)								
9/23/2020		0.00071 (J)		<0.005		0.00098 (J)	0.00092 (J)	0.0012 (J)	
9/24/2020	0.00074 (J)				<0.005				0.00076 (J)
2/9/2021	0.001 (J)	0.0011 (J)		0.00057 (J)	<0.005		0.00083 (J)	0.0013 (J)	0.00056 (J)
3/3/2021	0.00076 (J)	0.0012 (J)		<0.005		0.00082 (J)	0.00087 (J)	0.001 (J)	<0.005
3/4/2021					<0.005				
8/25/2021				<0.005					
8/26/2021					<0.005			<0.005	
8/27/2021						<0.005	<0.005		<0.005
9/1/2021	<0.005	0.003 (J)							
2/9/2022						<0.005	<0.005	0.0014 (J)	<0.005
2/10/2022	0.0013 (J)	<0.005	0.0011 (J)	<0.005	0.0016 (J)				
8/30/2022						<0.005	<0.005	0.0015 (J)	
8/31/2022	<0.005								<0.005
9/1/2022		<0.005	<0.005	<0.005	<0.005				
2/7/2023						<0.005	<0.005	0.0016 (J)	<0.005
2/8/2023		<0.005		<0.005	<0.005				
2/9/2023	<0.005		<0.005						
8/15/2023						<0.005	<0.005	0.0013 (J)	<0.005
8/16/2023	<0.005		<0.005	<0.005	<0.005				
8/17/2023		<0.005							
2/20/2024						<0.005	<0.005		<0.005
2/21/2024			<0.005						
2/22/2024		<0.005		<0.005	<0.005				
2/23/2024	<0.005							<0.005	
8/20/2024						<0.005	<0.005		<0.005
8/21/2024		<0.005						<0.005	
8/22/2024	<0.005		<0.005						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
8/23/2024				<0.005	<0.005				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	<0.005
7/27/2016	
7/28/2016	<0.005
9/16/2016	
9/19/2016	<0.005
11/2/2016	
11/3/2016	<0.005
1/11/2017	
1/13/2017	<0.005
3/1/2017	
3/2/2017	
3/6/2017	<0.005
4/26/2017	<0.005
5/2/2017	
6/28/2017	
6/29/2017	<0.005
3/28/2018	
3/29/2018	<0.005
3/5/2019	<0.005
3/6/2019	
2/11/2020	
2/12/2020	<0.005
3/24/2020	<0.005
3/25/2020	
9/23/2020	
9/24/2020	<0.005
2/9/2021	<0.005
3/3/2021	
3/4/2021	<0.005
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	<0.005
2/9/2022	<0.005
2/10/2022	
8/30/2022	<0.005
8/31/2022	
9/1/2022	
2/7/2023	<0.005
2/8/2023	
2/9/2023	
8/15/2023	<0.005
8/16/2023	
8/17/2023	
2/20/2024	<0.005
2/21/2024	
2/22/2024	
2/23/2024	
8/20/2024	<0.005
8/21/2024	
8/22/2024	

Time Series

Constituent: Chromium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWA-21I (bg)

8/23/2024

Time Series

Constituent: Chromium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.005	<0.005	<0.005				
6/7/2016						<0.005			
7/26/2016			<0.005	<0.005	<0.005				
7/28/2016						0.0008 (J)			
8/30/2016									<0.005
8/31/2016									
9/14/2016			<0.005	<0.005	<0.005				
9/20/2016						<0.005			
11/2/2016			<0.005	<0.005					
11/4/2016					<0.005				
11/8/2016						<0.005			
11/16/2016									<0.005
1/12/2017				<0.005	<0.005				
1/13/2017			<0.005						
1/16/2017						<0.005			
2/24/2017									
2/27/2017									<0.005
3/6/2017			<0.005						
3/7/2017				<0.005	<0.005				
3/9/2017						<0.005			
5/1/2017			<0.005	0.0004 (J)					
5/2/2017					<0.005	0.0007 (J)			
5/10/2017									0.0006 (J)
6/27/2017				<0.005	<0.005				
6/29/2017			<0.005						
7/10/2017						<0.005			
7/11/2017									<0.005
10/11/2017	<0.005								
10/12/2017		<0.005					0.0005 (J)	<0.005	<0.005
11/20/2017	<0.005	<0.005					<0.005		
11/21/2017								<0.005	
1/10/2018		<0.005							
1/11/2018	<0.005							<0.005	
1/12/2018							<0.005		
2/19/2018		<0.005						<0.005	
2/20/2018	<0.005						<0.005		
3/29/2018			<0.005	<0.005	<0.005				
3/30/2018						<0.005			
4/3/2018	<0.005	<0.005					<0.005	<0.005	
4/4/2018									<0.005
6/27/2018								<0.005	
6/28/2018	<0.005	<0.005					<0.005		
8/7/2018	<0.005	<0.005					<0.005	<0.005	
9/20/2018									<0.005
9/24/2018	<0.005	<0.005					<0.005	<0.005	
3/4/2019			<0.005	<0.005	<0.005				
3/6/2019						<0.005			
8/21/2019	<0.005	0.00053 (J)							
8/22/2019							<0.005	<0.005	<0.005
10/9/2019	<0.005	0.0012 (J)					<0.005	<0.005	0.00043 (J)
2/12/2020	<0.005	0.00065 (J)	<0.005	<0.005	0.00043 (J)				
3/24/2020		0.00055 (J)		<0.005	0.0014 (J)				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
3/25/2020	<0.005		0.00058 (J)				0.00065 (J)	0.00039 (J)	0.0013 (J)
3/26/2020						0.0019 (J)			
9/22/2020			<0.005	0.0011 (J)	<0.005				
9/24/2020	<0.005	<0.005				0.0011 (J)			<0.005
9/25/2020							<0.005	<0.005	
2/8/2021				<0.005	<0.005				
2/9/2021			<0.005			0.00086 (J)	<0.005		
2/10/2021	<0.005	<0.005						<0.005	<0.005
3/2/2021				<0.005	<0.005				
3/3/2021			0.0013 (J)						
3/4/2021	<0.005	<0.005				0.00078 (J)	<0.005	<0.005	<0.005
8/25/2021						<0.005			<0.005
8/26/2021	<0.005		<0.005	<0.005	<0.005		<0.005	<0.005	
9/3/2021		<0.005							
9/27/2021									
2/8/2022	<0.005	<0.005						<0.005	
2/10/2022				<0.005	<0.005	<0.005	<0.005		<0.005
2/11/2022			<0.005						
8/30/2022				<0.005	<0.005				
8/31/2022	<0.005	<0.005	<0.005						
9/1/2022						<0.005	<0.005	<0.005	<0.005
2/7/2023	<0.005			<0.005					
2/8/2023		<0.005				0.0014 (J)	<0.005	<0.005	<0.005
2/9/2023			<0.005		0.0012 (J)				
8/15/2023	<0.005	<0.005	<0.005	<0.005	<0.005				
8/16/2023						<0.005	<0.005	<0.005	<0.005
2/20/2024	<0.005	<0.005	<0.005	<0.005	<0.005				
2/21/2024						<0.005			
2/22/2024							<0.005	<0.005	<0.005
8/20/2024			<0.005	<0.005	<0.005				
8/21/2024	<0.005	<0.005				<0.005			
8/22/2024									<0.005
8/23/2024							<0.005	<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	<0.005
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	<0.005
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	<0.005
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	0.0005 (J)
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	<0.005
10/11/2017	
10/12/2017	<0.005
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	<0.005
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	<0.005
9/24/2018	
3/4/2019	
3/6/2019	
8/21/2019	0.00062 (J)
8/22/2019	
10/9/2019	0.00074 (J)
2/12/2020	
3/24/2020	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
3/25/2020	<0.005
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	0.00071 (J)
2/8/2021	
2/9/2021	<0.005
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	<0.005
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	<0.005
2/8/2022	<0.005
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	<0.005
2/7/2023	
2/8/2023	<0.005
2/9/2023	
8/15/2023	
8/16/2023	<0.005
2/20/2024	
2/21/2024	
2/22/2024	<0.005
8/20/2024	
8/21/2024	
8/22/2024	<0.005
8/23/2024	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/1/2007			0.0029						
9/11/2007			0.0084						
3/20/2008			0.0027						
8/27/2008			0.0026						
3/3/2009			0.0022						
11/18/2009			0.0036						
3/3/2010			<0.005						
9/8/2010			<0.005						
3/10/2011			<0.005						
9/8/2011			<0.005						
3/5/2012			<0.005						
9/10/2012			<0.005						
2/6/2013			<0.005						
8/12/2013			<0.005						
2/5/2014			0.0059						
8/5/2014			<0.005						
2/4/2015			<0.005						
8/3/2015			0.0011 (J)						
2/16/2016			<0.005						
6/1/2016					0.0035	<0.005			
6/2/2016				<0.005				<0.005	0.0013 (J)
7/25/2016						<0.005		<0.005	
7/26/2016				<0.005	<0.005				<0.005
8/30/2016		<0.005							
8/31/2016			<0.005						
9/1/2016	0.0013 (J)								
9/13/2016					<0.005	<0.005			
9/14/2016							<0.005		
9/15/2016				<0.005					<0.005
9/19/2016								<0.005	
11/1/2016					<0.005			<0.005	<0.005
11/2/2016				<0.005					
11/4/2016						<0.005	<0.005		
11/14/2016		0.0093 (J)							
11/15/2016	0.0014 (J)								
11/28/2016			<0.005						
12/15/2016							<0.005		
1/10/2017				<0.005					
1/11/2017					<0.005				<0.005
1/16/2017						<0.005	<0.005	<0.005	
2/21/2017								<0.005	
2/22/2017			<0.005						
2/24/2017		<0.005							
2/27/2017	0.0016 (J)								
3/1/2017									
3/2/2017					0.0009 (J)	0.0004 (J)			0.0006 (J)
3/3/2017							0.0005 (J)		
3/8/2017				<0.005					
4/26/2017				<0.005				0.0016 (J)	<0.005
4/27/2017					<0.005	<0.005			
4/28/2017							0.0004 (J)		
5/8/2017		<0.005	<0.005						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/9/2017	0.0017 (J)								
5/26/2017							<0.005		
6/27/2017					<0.005	<0.005			
6/28/2017							<0.005		<0.005
6/30/2017				<0.005				<0.005	
7/11/2017		<0.005							
7/13/2017	0.0019 (J)								
7/17/2017			<0.005						
10/10/2017		<0.005							
10/11/2017	0.0014 (J)								
10/16/2017			<0.005						
2/19/2018			<0.005						
3/27/2018				<0.005		<0.005		<0.005	
3/28/2018							<0.005		<0.005
3/29/2018					<0.005				
4/2/2018		<0.005							
4/4/2018	<0.01								
8/6/2018			<0.005						
9/19/2018		<0.005							
9/20/2018	0.0017 (J)								
2/25/2019			<0.005						
2/26/2019				<0.005				<0.005	
2/27/2019					<0.005	<0.005	<0.005		<0.005
3/28/2019					<0.005	0.0021 (J)			
3/29/2019				<0.005			<0.005		
4/1/2019								<0.005	<0.005
6/12/2019			<0.005						
8/19/2019			<0.005						
8/20/2019		<0.005							
9/24/2019					0.00072 (J)	0.0028 (J)	<0.005		
9/25/2019				<0.005				<0.005	0.0014 (J)
10/8/2019			<0.005						
2/10/2020					0.00042 (J)	<0.005			
2/11/2020							<0.005		
2/12/2020				<0.005				<0.005	<0.005
3/17/2020			<0.005						
3/18/2020				<0.005		0.00044 (J)			
3/19/2020					0.00084 (J)		0.00048 (J)	<0.005	<0.005
3/25/2020	0.0019 (J)								
8/26/2020			<0.005						
8/27/2020		<0.005							
9/22/2020		<0.005	<0.005						
9/23/2020					0.00062 (J)	0.00058 (J)	<0.005		<0.005
9/24/2020	0.0019 (J)							<0.005	
9/25/2020				<0.005					
2/9/2021	0.002 (J)								
2/10/2021				<0.005			<0.005		<0.005
2/11/2021								<0.005	
2/12/2021					<0.005	<0.005			
3/1/2021		<0.005						<0.005	
3/2/2021			<0.005	<0.005					
3/3/2021					<0.005	<0.005	<0.005		<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
3/4/2021	0.0017 (J)								
8/19/2021		<0.005		<0.005	<0.005	<0.005		<0.005	<0.005
8/20/2021			<0.005						
8/27/2021							<0.005		
9/1/2021	0.002 (J)								
2/8/2022	0.0021 (J)	<0.005	<0.005						
2/9/2022					<0.005	<0.005	<0.005		<0.005
2/10/2022				<0.005					
2/11/2022								<0.005	
8/30/2022			<0.005		0.0011 (J)		<0.005		
8/31/2022	0.002 (J)	<0.005		<0.005		<0.005		<0.005	<0.005
2/7/2023			<0.005		<0.005	0.0013 (J)	<0.005		
2/8/2023		<0.005		<0.005				0.0021 (J)	<0.005
2/9/2023	0.002 (J)								
8/15/2023		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005
8/16/2023	0.0017 (J)							<0.005	
2/20/2024		<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005
2/21/2024	0.0021 (J)								
2/23/2024				<0.005					
8/20/2024		<0.005		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
8/22/2024	0.002 (J)								

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/1/2007	
9/11/2007	
3/20/2008	
8/27/2008	
3/3/2009	
11/18/2009	
3/3/2010	
9/8/2010	
3/10/2011	
9/8/2011	
3/5/2012	
9/10/2012	
2/6/2013	
8/12/2013	
2/5/2014	
8/5/2014	
2/4/2015	
8/3/2015	
2/16/2016	
6/1/2016	<0.005
6/2/2016	
7/25/2016	<0.005
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	<0.005
9/15/2016	
9/19/2016	
11/1/2016	<0.005
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	<0.005
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	0.0004 (J)
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	<0.005
4/27/2017	
4/28/2017	
5/8/2017	

Time Series

Constituent: Chromium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	<0.005
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	<0.005
3/29/2018	
4/2/2018	
4/4/2018	
8/6/2018	
9/19/2018	
9/20/2018	
2/25/2019	
2/26/2019	
2/27/2019	<0.005
3/28/2019	
3/29/2019	
4/1/2019	<0.005
6/12/2019	
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	0.0019 (J)
10/8/2019	
2/10/2020	
2/11/2020	<0.005
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	<0.005
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	<0.005
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	<0.005
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	<0.005
9/1/2021	
2/8/2022	
2/9/2022	<0.005
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	<0.005
2/7/2023	
2/8/2023	<0.005
2/9/2023	
8/15/2023	
8/16/2023	<0.005
2/20/2024	<0.005
2/21/2024	
2/23/2024	
8/20/2024	<0.005
8/22/2024	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50	PZ-54D
6/8/2016							<0.005		
8/1/2016							<0.005		
9/2/2016			<0.005						
9/20/2016							<0.005		
11/8/2016							<0.005		
11/14/2016			0.0035						
1/17/2017							<0.005		
2/28/2017			<0.005						
3/8/2017							<0.005		
5/2/2017							0.0011 (J)		
5/9/2017			<0.005						
7/7/2017							<0.005		
7/13/2017			<0.005						
9/22/2017			<0.005						
9/29/2017			<0.005						
10/6/2017			<0.005						
10/12/2017		0.0019 (J)							
11/21/2017		0.0017 (J)							
1/11/2018		0.001 (J)							
2/20/2018		<0.005							
3/30/2018			<0.005				<0.005		
4/3/2018		<0.005							
6/29/2018		<0.005							
8/6/2018		<0.005							
9/24/2018		<0.005							
3/5/2019							<0.005		
3/6/2019			<0.005						
3/25/2020	0.0012 (J)		0.00074 (J)						
3/26/2020							0.00094 (J)		
9/23/2020							<0.005		
9/24/2020	0.00061 (J)								
9/25/2020		<0.005							
10/7/2020			0.0013 (J)						
2/9/2021		<0.005					0.0011 (J)		
2/10/2021	0.0006 (J)		0.00094 (J)						
3/3/2021							<0.005		
3/4/2021	0.0007 (J)	<0.005	<0.005						
8/25/2021		<0.005							
9/1/2021	<0.005						<0.005		
9/3/2021			<0.005	<0.005					
2/10/2022	<0.005	<0.005				<0.005	<0.005		
2/11/2022			<0.005	<0.005	0.0011 (J)				
8/31/2022	<0.005								
9/1/2022		<0.005	<0.005	<0.005	<0.005	<0.005			
2/8/2023		<0.005		<0.005	<0.005				
2/9/2023	0.0016 (J)		<0.005			<0.005			
2/10/2023							<0.005		
8/16/2023	<0.005		<0.005	<0.005		<0.005	<0.005		
8/17/2023		<0.005			<0.005			<0.005	
12/20/2023								<0.005	
2/21/2024		<0.005		<0.005	<0.005				
2/22/2024						<0.005		<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50	PZ-54D
2/23/2024	<0.005		<0.005				<0.005		
6/10/2024								<0.005	
6/12/2024									0.011
8/21/2024		<0.005		<0.005	<0.005				
8/22/2024	<0.005		<0.005			<0.005	<0.005		
8/23/2024								<0.005	
11/7/2024									<0.005
11/26/2024								0.00041 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							<0.005	0.00061 (J)	
6/7/2016						<0.005			<0.005
7/27/2016						<0.005	<0.005	0.0004 (J)	<0.005
7/28/2016									
9/16/2016						<0.005		0.0008 (J)	
9/19/2016							<0.005		<0.005
11/2/2016									<0.005
11/3/2016						<0.005	<0.005	<0.005	
1/11/2017						<0.005	<0.005	<0.005	
1/13/2017									<0.005
3/1/2017							<0.005	<0.005	
3/2/2017						<0.005			
3/6/2017									<0.005
4/26/2017							<0.005	<0.005	<0.005
5/2/2017						<0.005			
6/28/2017							<0.005	<0.005	
6/29/2017						<0.005			<0.005
3/28/2018						<0.005	<0.005	<0.005	
3/29/2018									<0.005
6/5/2018									
6/6/2018									<0.005
6/7/2018							<0.005		
6/11/2018						<0.005		<0.005	
9/25/2018						<0.005	<0.005	<0.005	<0.005
10/16/2018	0.032								
3/5/2019						<0.005		<0.005	<0.005
3/6/2019							<0.005		
4/2/2019						<0.005			
4/3/2019							<0.005	<0.005	<0.005
9/24/2019									
9/25/2019						<0.005			<0.005
9/26/2019	0.015						<0.005	<0.005	
1/3/2020	<0.005								
2/11/2020						<0.005	<0.005	<0.005	
2/12/2020									<0.005
3/24/2020						<0.005	<0.005	<0.005	<0.005
3/25/2020	<0.005								
9/23/2020		0.0025 (J)		0.00052 (J)		<0.005	<0.005	<0.005	
9/24/2020	0.01				0.00077 (J)				<0.005
2/9/2021	0.03	0.001 (J)		0.00063 (J)	<0.005		<0.005	<0.005	<0.005
3/3/2021	0.018	0.00082 (J)		0.001 (J)		<0.005	<0.005	<0.005	<0.005
3/4/2021					<0.005				
8/25/2021				0.00041 (J)					
8/26/2021					<0.005			<0.005	
8/27/2021						<0.005	<0.005		<0.005
9/1/2021	0.022	0.00093 (J)							
2/9/2022						<0.005	<0.005	<0.005	<0.005
2/10/2022	0.011	0.00052 (J)	0.16	0.00044 (J)	<0.005				
8/30/2022						<0.005	<0.005	<0.005	
8/31/2022	0.0041 (J)								<0.005
9/1/2022		0.0068	0.058	0.00048 (J)	<0.005				
2/7/2023						<0.005	<0.005	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
2/8/2023		<0.005		0.00085 (J)	<0.005				
2/9/2023	0.0045 (J)		0.066						
8/15/2023						<0.005	<0.005	<0.005	<0.005
8/16/2023	0.0027 (J)		0.14	<0.005	<0.005				
8/17/2023		0.0053							
2/20/2024						<0.005	<0.005		<0.005
2/21/2024			0.051						
2/22/2024		0.00044 (J)		<0.005	<0.005				
2/23/2024	0.0044 (J)							<0.005	
8/20/2024						<0.005	<0.005		<0.005
8/21/2024		0.0023 (J)						<0.005	
8/22/2024	0.0018 (J)		0.035						
8/23/2024				<0.005	<0.005				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	0.0056
7/27/2016	
7/28/2016	0.0032 (J)
9/16/2016	
9/19/2016	0.0047 (J)
11/2/2016	
11/3/2016	0.013
1/11/2017	
1/13/2017	0.011
3/1/2017	
3/2/2017	
3/6/2017	0.011
4/26/2017	0.009 (J)
5/2/2017	
6/28/2017	
6/29/2017	0.0093 (J)
3/28/2018	
3/29/2018	<0.005
6/5/2018	0.0041 (J)
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	0.0044 (J)
10/16/2018	
3/5/2019	0.0039 (J)
3/6/2019	
4/2/2019	0.0039 (J)
4/3/2019	
9/24/2019	0.0032 (J)
9/25/2019	
9/26/2019	
1/3/2020	
2/11/2020	
2/12/2020	0.0081
3/24/2020	0.0061
3/25/2020	
9/23/2020	
9/24/2020	0.0079
2/9/2021	0.009
3/3/2021	
3/4/2021	0.0065
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	0.0068
2/9/2022	0.0078
2/10/2022	
8/30/2022	0.0066
8/31/2022	
9/1/2022	
2/7/2023	0.014

Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
2/8/2023	
2/9/2023	
8/15/2023	0.011
8/16/2023	
8/17/2023	
2/20/2024	0.02
2/21/2024	
2/22/2024	
2/23/2024	
8/20/2024	0.02
8/21/2024	
8/22/2024	
8/23/2024	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			0.00082 (J)	<0.005	<0.005				
6/7/2016						<0.005			
7/26/2016			0.0012 (J)	<0.005	<0.005				
7/28/2016						<0.005			
8/30/2016									0.0025 (J)
8/31/2016									
9/14/2016			0.0006 (J)	<0.005	<0.005				
9/20/2016						<0.005			
11/2/2016			<0.005	<0.005					
11/4/2016					<0.005				
11/8/2016						<0.005			
11/16/2016									0.002 (J)
1/12/2017				<0.005	<0.005				
1/13/2017			0.0029 (J)						
1/16/2017						<0.005			
2/24/2017									
2/27/2017									0.0021 (J)
3/6/2017			0.0006 (J)						
3/7/2017				<0.005	<0.005				
3/9/2017						<0.005			
5/1/2017			<0.005	<0.005					
5/2/2017					<0.005	<0.005			
5/10/2017									0.0021 (J)
6/27/2017				<0.005	<0.005				
6/29/2017			0.0005 (J)						
7/10/2017						<0.005			
7/11/2017									0.0014 (J)
10/11/2017	<0.005								
10/12/2017		<0.005					<0.005	0.0011 (J)	0.0017 (J)
11/20/2017	<0.005	<0.005					<0.005		
11/21/2017								0.0003 (J)	
1/10/2018		<0.005							
1/11/2018	<0.005							0.0003 (J)	
1/12/2018							<0.005		
2/19/2018		<0.005						<0.005	
2/20/2018	<0.005						<0.005		
3/29/2018			<0.005	<0.005	<0.005				
3/30/2018						<0.005			
4/3/2018	<0.005	<0.005					<0.005	<0.005	
4/4/2018									<0.005
6/6/2018				<0.005					
6/7/2018			0.00058 (J)		<0.005				
6/12/2018						<0.005			
6/27/2018								0.00069 (J)	
6/28/2018	<0.005	<0.005					<0.005		
8/7/2018	<0.005	<0.005					<0.005	<0.005	
9/20/2018									0.003 (J)
9/24/2018	<0.005	<0.005					<0.005	<0.005	
9/26/2018			<0.005	<0.005	<0.005				
9/27/2018						<0.005			
3/4/2019			<0.005	<0.005	<0.005				
3/6/2019						<0.005			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
4/3/2019			0.00083 (J)	<0.005	<0.005				
4/4/2019						<0.005			
8/21/2019	0.00034 (J)	<0.005							
8/22/2019							<0.005	<0.005	0.0019 (J)
9/24/2019				<0.005	<0.005				
9/25/2019			<0.005						
9/27/2019						<0.005			
10/9/2019	<0.005	<0.005					<0.005	<0.005	0.0019 (J)
2/12/2020	0.00034 (J)	<0.005	<0.005	0.00037 (J)	<0.005				
3/24/2020		<0.005		0.00035 (J)	<0.005				
3/25/2020	0.00034 (J)		0.00056 (J)				<0.005	<0.005	0.0018 (J)
3/26/2020						<0.005			
9/22/2020			<0.005	<0.005	<0.005				
9/24/2020	0.00053 (J)	<0.005				<0.005			0.0017 (J)
9/25/2020							<0.005	<0.005	
2/8/2021				<0.005	<0.005				
2/9/2021			<0.005			<0.005	<0.005		
2/10/2021	0.00098 (J)	<0.005						<0.005	0.0019 (J)
3/2/2021				<0.005	<0.005				
3/3/2021			<0.005						
3/4/2021	0.00071 (J)	<0.005				<0.005	<0.005	<0.005	0.0018 (J)
8/25/2021						<0.005			0.0014 (J)
8/26/2021	0.0011 (J)		0.00042 (J)	<0.005	<0.005		<0.005	<0.005	
9/3/2021		<0.005							
9/27/2021									
2/8/2022	0.0012 (J)	<0.005						<0.005	
2/10/2022				<0.005	<0.005	<0.005	<0.005		0.0017 (J)
2/11/2022			<0.005						
8/30/2022				<0.005	<0.005				
8/31/2022	0.00085 (J)	<0.005	<0.005						
9/1/2022						<0.005	<0.005	<0.005	0.0015 (J)
2/7/2023	0.00066 (J)			<0.005					
2/8/2023		<0.005				<0.005	<0.005	<0.005	0.0018 (J)
2/9/2023			<0.005		<0.005				
8/15/2023	0.00072 (J)	<0.005	<0.005	<0.005	<0.005				
8/16/2023						<0.005	<0.005	<0.005	0.0014 (J)
2/20/2024	0.00073 (J)	<0.005	<0.005	<0.005	<0.005				
2/21/2024						<0.005			
2/22/2024							<0.005	<0.005	0.0023 (J)
8/20/2024			<0.005	<0.005	<0.005				
8/21/2024	0.00048 (J)	<0.005				<0.005			
8/22/2024									0.0017 (J)
8/23/2024							<0.005	<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	<0.005
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	<0.005
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	<0.005
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	<0.005
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	<0.005
10/11/2017	
10/12/2017	0.0006 (J)
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	<0.005
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	0.0034 (J)
9/24/2018	
9/26/2018	
9/27/2018	
3/4/2019	
3/6/2019	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
4/3/2019	
4/4/2019	
8/21/2019	0.0026 (J)
8/22/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	0.0023 (J)
2/12/2020	
3/24/2020	
3/25/2020	0.0016 (J)
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	0.0018 (J)
2/8/2021	
2/9/2021	0.0017 (J)
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	0.0015 (J)
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	<0.005
2/8/2022	0.00045 (J)
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	0.0005 (J)
2/7/2023	
2/8/2023	0.00049 (J)
2/9/2023	
8/15/2023	
8/16/2023	0.00046 (J)
2/20/2024	
2/21/2024	
2/22/2024	0.00038 (J)
8/20/2024	
8/21/2024	
8/22/2024	0.00057 (J)
8/23/2024	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/1/2007			0.0067						
9/11/2007			<0.005						
3/20/2008			<0.005						
8/27/2008			<0.005						
3/3/2009			<0.005						
11/18/2009			<0.005						
3/3/2010			0.0027						
9/8/2010			0.007						
3/10/2011			<0.005						
9/8/2011			<0.005						
3/5/2012			0.0032						
9/10/2012			<0.005						
2/6/2013			<0.005						
8/12/2013			0.0045						
2/5/2014			<0.005						
8/5/2014			0.0027						
2/4/2015			0.0016						
8/3/2015			0.002						
2/16/2016			0.0027						
6/1/2016					<0.005	0.00082 (J)			
6/2/2016				<0.005				0.035	<0.005
7/25/2016						0.0008 (J)		0.0312	
7/26/2016				<0.005	<0.005				<0.005
8/30/2016		0.0073 (J)							
8/31/2016			0.0053 (J)						
9/1/2016	<0.005								
9/13/2016					<0.005	0.0009 (J)			
9/14/2016							<0.005		
9/15/2016				<0.005					<0.005
9/19/2016								0.0275	
11/1/2016					<0.005			0.0255	<0.005
11/2/2016				<0.005					
11/4/2016						0.0025 (J)	<0.005		
11/14/2016		0.0115							
11/15/2016	0.0006 (J)								
11/28/2016			0.0036 (J)						
12/15/2016							<0.005		
1/10/2017				<0.005					
1/11/2017					<0.005				<0.005
1/16/2017						0.0027 (J)	<0.005	0.0245	
2/21/2017								0.0272	
2/22/2017			0.0049 (J)						
2/24/2017		0.0106							
2/27/2017	0.0008 (J)								
3/1/2017									
3/2/2017					<0.005	0.0022 (J)			<0.005
3/3/2017							<0.005		
3/8/2017				<0.005					
4/26/2017				<0.005				0.0244	<0.005
4/27/2017					<0.005	0.0018 (J)			
4/28/2017							<0.005		
5/8/2017		0.0099 (J)	0.0059 (J)						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/9/2017	<0.005								
5/26/2017							<0.005		
6/27/2017					<0.005	0.0023 (J)			
6/28/2017							<0.005		<0.005
6/30/2017				<0.005				0.0233	
7/11/2017		0.0096 (J)							
7/13/2017	0.0005 (J)								
7/17/2017			0.0046 (J)						
10/10/2017		0.0036 (J)							
10/11/2017	0.0006 (J)								
10/16/2017			0.0034 (J)						
2/19/2018			<0.005						
3/27/2018				<0.005		<0.005		0.023	
3/28/2018							<0.005		<0.005
3/29/2018					<0.005				
4/2/2018		<0.005							
4/4/2018	<0.005								
6/5/2018					<0.005				
6/6/2018						<0.005			
6/7/2018							<0.005		<0.005
6/8/2018				<0.005					
6/11/2018								0.023	
8/6/2018			0.003 (J)						
9/19/2018		0.0036 (J)							
9/20/2018	<0.005								
10/1/2018				<0.005	<0.005	0.00059 (J)	<0.005		<0.005
10/2/2018								0.022	
2/25/2019			0.001 (J)						
2/26/2019				<0.005				0.021	
2/27/2019					<0.005	0.00064 (J)	<0.005		<0.005
3/28/2019					<0.005	0.00091 (J)			
3/29/2019				<0.005			<0.005		
4/1/2019								0.022	<0.005
6/12/2019			0.003 (J)						
8/19/2019			0.0035 (J)						
8/20/2019		0.00092 (J)							
9/24/2019					<0.005	0.0013 (J)	<0.005		
9/25/2019				<0.005				0.016	<0.005
9/26/2019	<0.005								
10/8/2019		0.0014 (J)	0.0039 (J)						
2/10/2020					<0.005	0.0016 (J)			
2/11/2020							<0.005		
2/12/2020				<0.005				0.014	<0.005
3/17/2020		0.0017 (J)	0.003 (J)						
3/18/2020				<0.005		0.00087 (J)			
3/19/2020					<0.005		<0.005	0.014	<0.005
3/25/2020	<0.005								
8/26/2020			0.2 (O)						
8/27/2020		0.0011 (J)							
9/22/2020		0.00097 (J)	0.16 (O)						
9/23/2020					<0.005	0.0013 (J)	<0.005		<0.005
9/24/2020	<0.005							0.0064	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
9/25/2020				<0.005					
2/9/2021	<0.005								
2/10/2021				<0.005			<0.005		<0.005
2/11/2021								0.0078	
2/12/2021					0.00086 (J)	0.0028 (J)			
3/1/2021		0.001 (J)						0.0061	
3/2/2021			0.21 (O)	<0.005					
3/3/2021					<0.005	0.003 (J)	<0.005		<0.005
3/4/2021	<0.005								
8/19/2021		0.00099 (J)		<0.005	0.00055 (J)	0.0017 (J)		0.0052	<0.005
8/20/2021			0.074 (O)						
8/27/2021							<0.005		
9/1/2021	<0.005								
2/8/2022	<0.005	0.0013 (J)	0.072 (o)						
2/9/2022					0.00072 (J)	0.0023 (J)	<0.005		<0.005
2/10/2022				<0.005					
2/11/2022								0.0038 (J)	
8/30/2022			0.075 (o)		<0.005		<0.005		
8/31/2022	<0.005	0.00096 (J)		<0.005		0.00085 (J)		0.004 (J)	<0.005
2/7/2023			0.034		0.00097 (J)	0.0048 (J)	<0.005		
2/8/2023		0.0011 (J)		<0.005				0.0031 (J)	<0.005
2/9/2023	<0.005								
8/15/2023		0.00072 (J)	0.031	<0.005	<0.005	0.00072 (J)	<0.005		<0.005
8/16/2023	<0.005							0.0028 (J)	
2/20/2024		0.0011 (J)	0.023		0.00055 (J)	0.0018 (J)	<0.005	0.0029 (J)	<0.005
2/21/2024	<0.005								
2/23/2024				<0.005					
8/20/2024		0.00034 (J)		<0.005	<0.005	0.00033 (J)	<0.005	0.0023 (J)	<0.005
8/22/2024	<0.005								

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/1/2007	
9/11/2007	
3/20/2008	
8/27/2008	
3/3/2009	
11/18/2009	
3/3/2010	
9/8/2010	
3/10/2011	
9/8/2011	
3/5/2012	
9/10/2012	
2/6/2013	
8/12/2013	
2/5/2014	
8/5/2014	
2/4/2015	
8/3/2015	
2/16/2016	
6/1/2016	<0.005
6/2/2016	
7/25/2016	<0.005
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	<0.005
9/15/2016	
9/19/2016	
11/1/2016	<0.005
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	<0.005
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	<0.005
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	<0.005
4/27/2017	
4/28/2017	
5/8/2017	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	<0.005
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	<0.005
3/29/2018	
4/2/2018	
4/4/2018	
6/5/2018	
6/6/2018	
6/7/2018	
6/8/2018	<0.005
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	<0.005
10/2/2018	
2/25/2019	
2/26/2019	
2/27/2019	<0.005
3/28/2019	
3/29/2019	
4/1/2019	<0.005
6/12/2019	
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	<0.005
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	<0.005
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	<0.005
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	<0.005
9/24/2020	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
9/25/2020	
2/9/2021	
2/10/2021	<0.005
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	<0.005
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	<0.005
9/1/2021	
2/8/2022	
2/9/2022	<0.005
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	<0.005
2/7/2023	
2/8/2023	<0.005
2/9/2023	
8/15/2023	
8/16/2023	<0.005
2/20/2024	<0.005
2/21/2024	
2/23/2024	
8/20/2024	<0.005
8/22/2024	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50	PZ-54D
6/8/2016							<0.005		
8/1/2016							<0.005		
9/2/2016			0.0006 (J)						
9/20/2016							<0.005		
11/8/2016							<0.005		
11/14/2016			<0.005						
1/17/2017							<0.005		
2/28/2017			<0.005						
3/8/2017							<0.005		
5/2/2017							<0.005		
5/9/2017			<0.005						
7/7/2017							<0.005		
7/13/2017			<0.005						
9/22/2017			<0.005						
9/29/2017			<0.005						
10/6/2017			<0.005						
10/12/2017		0.0078 (J)							
11/21/2017		0.0097 (J)							
1/11/2018		0.0131							
2/20/2018		0.0162							
3/30/2018			<0.005				<0.005		
4/3/2018		0.015							
6/12/2018							<0.005		
6/13/2018			<0.005						
6/29/2018		0.013							
8/6/2018		0.0053 (J)							
9/24/2018		0.0071 (J)							
9/26/2018			<0.005				<0.005		
10/16/2018	<0.005								
3/5/2019							<0.005		
3/6/2019			<0.005						
4/4/2019			<0.005				<0.005		
9/26/2019	<0.005		0.00048 (J)				<0.005		
3/25/2020	0.0059		0.00038 (J)						
3/26/2020							<0.005		
9/23/2020							<0.005		
9/24/2020	<0.005								
9/25/2020		0.0023 (J)							
10/7/2020			0.00086 (J)						
2/9/2021		0.0023 (J)					<0.005		
2/10/2021	<0.005		0.00038 (J)						
3/3/2021							<0.005		
3/4/2021	<0.005	0.003 (J)	<0.005						
8/25/2021		0.0068							
9/1/2021	<0.005						<0.005		
9/3/2021			<0.005	<0.005					
2/10/2022	<0.005	0.0036 (J)				0.033	<0.005		
2/11/2022			<0.005	<0.005	0.0011 (J)				
8/31/2022	<0.005								
9/1/2022		0.0025 (J)	<0.005	<0.005	0.0016 (J)	0.018			
2/8/2023		0.0022 (J)		<0.005	0.0026 (J)				
2/9/2023	<0.005		<0.005			0.0071			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50	PZ-54D
2/10/2023							<0.005		
8/16/2023	<0.005		<0.005	<0.005		0.0056	<0.005		
8/17/2023		0.0027 (J)			0.0031 (J)			0.0086	
12/20/2023								0.0052	
2/21/2024		0.0017 (J)		<0.005	0.0029 (J)				
2/22/2024						0.0051		0.0063	
2/23/2024	<0.005		<0.005				<0.005		
6/10/2024								0.0055	
6/12/2024									0.0033 (J)
8/21/2024		0.0037 (J)		<0.005	0.0024 (J)				
8/22/2024	<0.005		<0.005			0.0048 (J)	<0.005		
8/23/2024								0.006	
11/7/2024									0.004 (J)
11/26/2024								0.0075	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							0.0804 (U)	0.301 (U)	
6/7/2016						0.158 (U)			0.0191 (U)
7/27/2016						0.0354 (U)	0.206 (U)	0.196 (U)	0.541 (U)
7/28/2016									
9/16/2016						1.04		0.915 (U)	
9/19/2016							1.58		0.826 (U)
11/2/2016									0.791 (U)
11/3/2016						0.314 (U)	0.342 (U)	0.928 (U)	
1/11/2017						0.34 (U)	0.365 (U)	0.502 (U)	
1/13/2017									0.296 (U)
3/1/2017							0.395 (U)	0.202 (U)	
3/2/2017						0.746 (U)			
3/6/2017									0.518 (U)
4/26/2017							0.507 (U)	0.264 (U)	0.282 (U)
5/2/2017						0.111 (U)			
6/28/2017							0.892	0.636 (U)	
6/29/2017						0.576 (U)			1.12
3/28/2018						0.438 (U)	0.92 (U)	0.56 (U)	
3/29/2018									1.73
6/5/2018									
6/6/2018									0.694 (U)
6/7/2018							0.668 (U)		
6/11/2018						0.901 (U)		0.649 (U)	
9/25/2018						0.68 (U)	0.141 (U)	0.574 (U)	0.772 (U)
10/16/2018	0.384 (U)								
3/5/2019						0.272 (U)		0.474 (U)	0.84 (U)
3/6/2019							0.714 (U)		
4/2/2019						0.847 (U)			
4/3/2019							0.385 (U)	0.429 (U)	1.01
9/24/2019									
9/25/2019						0.412 (U)			1.18 (U)
9/26/2019							0.386 (U)	0.222 (U)	
2/11/2020						0.461 (U)	1.48	0.597 (U)	
2/12/2020									1.11 (U)
3/24/2020						0.534 (U)	0.632 (U)	0.262 (U)	1.88
3/25/2020	0.525 (U)								
9/23/2020		0.0813 (U)		1.2 (U)		0.466 (U)	0.887 (U)	0.43 (U)	
9/24/2020	0.547 (U)				0.668 (U)				0.611 (U)
2/9/2021	0.866 (U)	0.492 (U)		0.659 (U)	1.07 (U)	0.529 (U)	0.314 (U)	0.259 (U)	0.284 (U)
3/3/2021	0.377 (U)	0.563 (U)		1.07		0.59 (U)	0.565 (U)	0.352 (U)	0.133 (U)
3/4/2021					1.46				
8/25/2021				0.0991 (U)					
8/26/2021					0.724 (U)			0.686 (U)	
8/27/2021						0.9 (U)	0.761 (U)		0.779 (U)
9/1/2021	0.676 (U)	0.761 (U)							
2/9/2022						0.133 (U)	0.571 (U)	0.0618 (U)	0.504 (U)
2/10/2022	0.233 (U)	0 (U)	0.988 (U)	0.702 (U)	1.25 (U)				
8/30/2022						1.08	1.01	0.611 (U)	
8/31/2022	0.313 (U)								0.184 (U)
9/1/2022		0.959 (U)	0.975 (U)	0.381 (U)	0.811 (U)				
2/7/2023						0.367 (U)	0.485 (U)	0.656 (U)	0.794 (U)
2/8/2023		0.0994 (U)		0.239 (U)	0.502 (U)				

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
2/9/2023	0.595 (U)		2.19						
8/15/2023						0.0388 (U)	0.655 (U)	0.347 (U)	0.165 (U)
8/16/2023	0.575 (U)		2.77	0.431 (U)	0.858 (U)				
8/17/2023		0.686 (U)							
2/20/2024						0.0387 (U)	0.068 (U)		0.165 (U)
2/21/2024			0.973 (U)						
2/22/2024		0.463 (U)		0.196 (U)	0.606 (U)				
2/23/2024	0.566 (U)							0.318 (U)	
8/20/2024						0.554 (U)	0.223 (U)		0.371 (U)
8/21/2024		0.465 (U)						0.684 (U)	
8/22/2024	0.386 (U)		1.47						
8/23/2024				0.445 (U)	0.826 (U)				

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	0.347
7/27/2016	
7/28/2016	0.815 (U)
9/16/2016	
9/19/2016	0.862 (U)
11/2/2016	
11/3/2016	0.797 (U)
1/11/2017	
1/13/2017	0.72 (U)
3/1/2017	
3/2/2017	
3/6/2017	0.518 (U)
4/26/2017	1.13 (U)
5/2/2017	
6/28/2017	
6/29/2017	0.841 (U)
3/28/2018	
3/29/2018	1.91
6/5/2018	1.39
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	1.62
10/16/2018	
3/5/2019	0.985 (U)
3/6/2019	
4/2/2019	1.42
4/3/2019	
9/24/2019	1.35
9/25/2019	
9/26/2019	
2/11/2020	
2/12/2020	1.61
3/24/2020	1.24 (U)
3/25/2020	
9/23/2020	
9/24/2020	1.8
2/9/2021	1.24
3/3/2021	1.2
3/4/2021	
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	1.86
2/9/2022	1.94
2/10/2022	
8/30/2022	1.27
8/31/2022	
9/1/2022	
2/7/2023	1.53
2/8/2023	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
2/9/2023	
8/15/2023	1.68
8/16/2023	
8/17/2023	
2/20/2024	1.19
2/21/2024	
2/22/2024	
2/23/2024	
8/20/2024	0.545 (U)
8/21/2024	
8/22/2024	
8/23/2024	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			0.721	5.11	0.614				
6/7/2016						0.303 (U)			
7/26/2016			1.26	6.92	1.47				
7/28/2016						0.386 (U)			
8/30/2016									2.99
8/31/2016									
9/14/2016			0.901 (U)	3.96	1.27				
9/20/2016						1.47			
11/2/2016			1.09 (U)	4.53					
11/4/2016					0.434 (U)				
11/8/2016						0.22 (U)			
11/16/2016									4.01
1/12/2017				4.43	0.202 (U)				
1/13/2017			1.19						
1/16/2017						0.147 (U)			
2/24/2017									
2/27/2017									2.5
3/6/2017			0.669 (U)						
3/7/2017				4.8	0.0674 (U)				
3/9/2017						0.0892 (U)			
5/1/2017			0.803 (U)	4.16					
5/2/2017					0.444 (U)	0.149 (U)			
5/10/2017									2.55
6/27/2017				2.8	0.77 (U)				
6/29/2017			1.35						
7/10/2017						0.815 (U)			
7/11/2017									3.94
10/11/2017	0.586 (U)								
10/12/2017		1.49					1.24	0.641 (U)	3.57
11/20/2017	0.816 (U)	0.918 (U)					0.342 (U)		
11/21/2017								2.01	
1/10/2018		1.05							
1/11/2018	0.841 (U)							0.919 (U)	
1/12/2018							1.04		
2/19/2018		2.05						1.82	
2/20/2018	1.58						1.6 (U)		
3/29/2018			0.703 (U)	3.42	0.648 (U)				
3/30/2018						0.659 (U)			
4/3/2018	0.385 (U)	0.68 (U)					0.726 (U)	0.911 (U)	
4/4/2018									1.9
6/6/2018				3.99					
6/7/2018			0.628 (U)		0.745 (U)				
6/12/2018						1.03 (U)			
6/27/2018								0.429 (U)	
6/28/2018	0.283 (U)	1.28					1.06 (U)		
8/7/2018	0.332 (U)	1.16					1.21	0.579 (U)	
9/20/2018									1.94
9/24/2018	0.767 (U)	0.965 (U)					1.52	1.39	
9/26/2018			0.756 (U)	2.73	0.377 (U)				
9/27/2018						1.06 (U)			
3/4/2019			1.21 (U)	4.43	1 (U)				
3/6/2019						0.736 (U)			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
4/3/2019			1.07 (U)	4.79	0.43 (U)				
4/4/2019						0.474 (U)			
8/21/2019	1.01 (U)	1.24 (U)							
8/22/2019							1.97	2.03	1.59
9/24/2019				4.06	0.699 (U)				
9/25/2019			1.86						
9/27/2019						0.684 (U)			
10/8/2019	1.02 (U)	0.866 (U)					0.751 (U)	0.609 (U)	0.995 (U)
2/12/2020	0.45 (U)	1.83	1.25	4.02	0.913 (U)				
3/24/2020		1.27 (U)		3.52					
3/25/2020	0.377 (U)		0.766 (U)				0.321 (U)	0.568 (U)	1.17 (U)
3/26/2020						0.281 (U)			
9/22/2020			0.795 (U)	2.98	0.428 (U)				
9/24/2020	0.568 (U)	0.634 (U)				0.788 (U)			0.751 (U)
9/25/2020							0.246 (U)	0.769 (U)	
2/8/2021				2.89	0.613 (U)				
2/9/2021			0.626 (U)			0.464 (U)	0.626 (U)		
2/10/2021	0.518 (U)	0.783 (U)						0.548 (U)	0.612 (U)
3/2/2021				1.67	0.579 (U)				
3/3/2021			1						
3/4/2021	0.636 (U)	0.818 (U)				0.771 (U)	0.816 (U)	1.23	1.02
8/25/2021						0.624 (U)			0.978 (U)
8/26/2021	0.674 (U)		1.17 (U)	4.68	0.798 (U)		0.427 (U)	0.356 (U)	
9/3/2021		0.971 (U)							
9/27/2021									
2/8/2022	0.834	0.534 (U)						0.594 (U)	
2/10/2022				3.33	0.375 (U)	0.197 (U)	0.791 (U)		0.307 (U)
2/11/2022			0.996						
8/30/2022				5.34	0.72 (U)				
8/31/2022	0.937	0.513 (U)	0.962						
9/1/2022						1.23 (U)	0.52 (U)	0.0906 (U)	0.596 (U)
2/7/2023	1.41			3.99					
2/8/2023		1.56				0.4 (U)	0.361 (U)	0.852 (U)	0.817
2/9/2023			1.12		0.0815 (U)				
8/15/2023	0.608 (U)	0.325 (U)	1.14	3.44	0.846 (U)				
8/16/2023						0.502 (U)	0.617 (U)	1.23	1.08 (U)
2/20/2024	0.701 (U)	0.437 (U)	1.1 (U)	2.8	0.63 (U)				
2/21/2024						0.345 (U)			
2/22/2024							0.416 (U)	0.752 (U)	1.05 (U)
8/20/2024			1.18	3.02	0.695 (U)				
8/21/2024	1.52	0.265 (U)				0.285 (U)			
8/22/2024									0.134 (U)
8/23/2024							0.22 (U)	1.01 (U)	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	0.926 (U)
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	0.773 (U)
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	0.661 (U)
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	1.27
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	1.02
10/11/2017	
10/12/2017	1.58
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	1.71
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	2.8
9/24/2018	
9/26/2018	
9/27/2018	
3/4/2019	
3/6/2019	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
4/3/2019	
4/4/2019	
8/21/2019	3.16
8/22/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/8/2019	3.65
2/12/2020	
3/24/2020	
3/25/2020	3.04
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	4.75
2/8/2021	
2/9/2021	6.38
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	6.02
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	1.54
2/8/2022	3.11
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	4.16
2/7/2023	
2/8/2023	3.73
2/9/2023	
8/15/2023	
8/16/2023	4.92
2/20/2024	
2/21/2024	
2/22/2024	4.56
8/20/2024	
8/21/2024	
8/22/2024	4.45
8/23/2024	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/1/2016					0.321 (U)	0.42			
6/2/2016				0.329 (U)				0.0652 (U)	2.51
7/25/2016						1.83		3.01	
7/26/2016				1.51	0.707 (U)				3.82
8/30/2016		1.09							
8/31/2016			1.2						
9/1/2016	1.2								
9/13/2016					1.22	0.841			
9/14/2016							0.98 (U)		
9/15/2016				1.04 (U)					4.24
9/19/2016								0.871 (U)	
11/1/2016					0.805 (U)			0.307 (U)	3.92
11/2/2016				0.496 (U)					
11/4/2016						0.166 (U)	0.277 (U)		
11/15/2016	0.645 (U)								
11/28/2016			0.264 (U)						
12/15/2016		1 (U)					0.071 (U)		
1/10/2017				0.376 (U)					
1/11/2017					0.705 (U)				2.52
1/16/2017						0	0.44 (U)	0.284 (U)	
2/21/2017								0.503 (U)	
2/22/2017			1.06 (U)						
2/24/2017		0.504 (U)							
2/27/2017	0.244 (U)								
3/1/2017									
3/2/2017					0.251 (U)	0.504 (U)			3.13
3/3/2017							0.448 (U)		
3/8/2017				0.0745 (U)					
4/26/2017				0.282 (U)				0.204 (U)	2.35
4/27/2017					1.08	0.593 (U)			
4/28/2017							0.548 (U)		
5/8/2017		0.455 (U)	0.187 (U)						
5/9/2017	0.519 (U)								
5/26/2017							0 (U)		
6/27/2017					1.02 (U)	0.657 (U)			
6/28/2017							0.608 (U)		2.6
6/30/2017				0.994				0.738 (U)	
7/11/2017		0.471 (U)							
7/13/2017	0.5 (U)								
7/17/2017			1.42						
10/10/2017		0.649 (U)							
10/11/2017	1.41								
10/16/2017			1.17						
2/19/2018			1.58 (D)						
3/27/2018				0.189 (U)		0.39 (U)		0.31 (U)	
3/28/2018							0.412 (U)		3
3/29/2018					0.503 (U)				
4/2/2018		0.512 (U)							
4/4/2018	0.442 (U)								
6/5/2018					0.771 (U)				
6/6/2018						2.8			
6/7/2018							0.73 (U)		2.79

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/8/2018				0.218 (U)					
6/11/2018								0.608 (U)	
8/6/2018			0.196 (U)						
9/19/2018		0.789 (U)							
9/20/2018	1.14 (U)								
10/1/2018				1.24	0.783 (U)	1.06 (U)	0.756 (U)		3.14
10/2/2018								0.97 (U)	
2/26/2019				0.202 (U)				0.524 (U)	
2/27/2019					1.21 (U)	0.637 (U)	0.635 (U)		3.79
3/28/2019					1.13 (U)	0.125 (U)			
3/29/2019				0 (U)			0.224 (U)		
4/1/2019								1.02 (U)	4.33
8/19/2019			1.39						
8/20/2019		2.44							
9/24/2019					1.22 (U)	0.949 (U)	0.429 (U)		
9/25/2019				0.707 (U)				1.02 (U)	4.2
9/26/2019	1.16 (U)								
10/8/2019		1.72	1.32 (U)						
2/10/2020					1.41	1.25 (U)			
2/11/2020							0.817 (U)		3.87
2/12/2020				1.07 (U)				0.301 (U)	
3/17/2020		1.22 (U)	1 (U)						
3/18/2020				0.207 (U)		0.458 (U)			
3/19/2020					1.1		0.715 (U)	1	3.96
3/25/2020	1.2 (U)								
8/26/2020			1.75						
8/27/2020		1.26 (U)							
9/22/2020		1.06 (U)	0.688 (U)						
9/23/2020					1.35 (U)	0.00884 (U)	0.565 (U)		4.14
9/24/2020	1.57 (U)							0.684 (U)	
9/25/2020				0.603 (U)					
2/9/2021	0.137 (U)								
2/10/2021				0.353 (U)			1.04 (U)		3.65
2/11/2021								0.678 (U)	
2/12/2021					0.366 (U)	0.458 (U)			
3/1/2021		1.2						0.412 (U)	
3/2/2021			0.948 (U)	0.71 (U)					
3/3/2021					0.492 (U)	0.105 (U)	0.459 (U)		3.58
3/4/2021	0.579 (U)								
8/19/2021		1.07 (U)		0.786 (U)	1.17 (U)	0.0732 (U)		0.234 (U)	3.53
8/20/2021			0.528 (U)						
8/27/2021							0.409 (U)		
9/1/2021	0.686 (U)								
2/8/2022	0.201 (U)	0.4 (U)	0.462 (U)						
2/9/2022					1.19	0.422 (U)	0.894 (U)		3.28
2/10/2022				0 (U)				0.268 (U)	
8/30/2022			1.52		0.827		0.699 (U)		
8/31/2022	0.823 (U)	0.714 (U)		0.421 (U)		0.49 (U)		0.506 (U)	2.12
2/7/2023			1		0.92 (U)	0.661 (U)	0.536 (U)		
2/8/2023		0.375 (U)		0.83 (U)				0.417 (U)	2.74
2/9/2023	0.667 (U)								
8/15/2023		0.947 (U)	0.833 (U)	0.652 (U)	0.935 (U)	0.726 (U)	0.611 (U)		2.79

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
8/16/2023	0.982 (U)							0.895 (U)	
2/20/2024		0.939 (U)	0.978 (U)		0.274 (U)	0.798 (U)	0.784 (U)	0.375 (U)	2.56
2/21/2024	0.595 (U)								
2/23/2024				0.736 (U)					
8/20/2024		0.873 (U)		0.667 (U)	0.46 (U)	0.65 (U)	0.0912 (U)	0.748 (U)	3.09
8/22/2024	0.852								

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/1/2016	0.896
6/2/2016	
7/25/2016	2.28
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	0.821 (U)
9/15/2016	
9/19/2016	
11/1/2016	0.585 (U)
11/2/2016	
11/4/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	1.22
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	0.877 (U)
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	0.672 (U)
4/27/2017	
4/28/2017	
5/8/2017	
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	1.07 (U)
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	0.65 (U)
3/29/2018	
4/2/2018	
4/4/2018	
6/5/2018	
6/6/2018	
6/7/2018	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/8/2018	1.89
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	1.58
10/2/2018	
2/26/2019	
2/27/2019	3.67
3/28/2019	
3/29/2019	
4/1/2019	2.28
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	1.6
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	1.85
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	2.2
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	1.14 (U)
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	2.46
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	2.03
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	1.34
9/1/2021	
2/8/2022	
2/9/2022	1.91
2/10/2022	
8/30/2022	
8/31/2022	1.33
2/7/2023	
2/8/2023	1.18
2/9/2023	
8/15/2023	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
8/16/2023	1.87
2/20/2024	1.09 (U)
2/21/2024	
2/23/2024	
8/20/2024	0.921 (U)
8/22/2024	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50	PZ-54D
6/8/2016							1.06		
8/1/2016							0.467 (U)		
9/2/2016			0.873 (U)						
9/20/2016							0.853 (U)		
9/22/2016			0.667 (U)						
9/29/2016			1.63						
10/6/2016			0.641 (U)						
11/8/2016							0.433 (U)		
11/14/2016			0.0451 (U)						
1/17/2017							0.0759 (U)		
2/28/2017			1.34 (U)						
3/8/2017							0.479 (U)		
5/2/2017							0.506 (U)		
5/9/2017			0.309 (U)						
7/7/2017							0.713 (U)		
7/13/2017			0.618 (U)						
10/12/2017		1.83							
11/21/2017		1.33							
1/11/2018		1.53							
2/20/2018		2.75							
3/30/2018			0.721 (U)				0.409 (U)		
4/3/2018		1.47							
6/12/2018							0.728 (U)		
6/13/2018			1.04 (U)						
6/29/2018		1.69							
8/6/2018		1.69							
9/24/2018		2.26							
9/26/2018			0.604 (U)				0.981		
10/16/2018	0.363 (U)								
3/5/2019							0.837 (U)		
3/6/2019			0.919 (U)						
4/4/2019			1.05 (U)						
4/9/2019							0.502 (U)		
9/26/2019			0.979 (U)				0.964 (U)		
3/25/2020	0.197 (U)		1.22 (U)						
3/26/2020							0.511 (U)		
9/23/2020							0.786 (U)		
9/24/2020	1.07 (U)								
9/25/2020		1.68 (U)							
10/7/2020			1.58						
2/9/2021		1.52					0.678 (U)		
2/10/2021	0.546 (U)		0.466 (U)						
3/3/2021							0.415 (U)		
3/4/2021	0.397 (U)	1.49	0.0671 (U)						
8/25/2021		1.41							
9/1/2021	0.696 (U)						0.444 (U)		
9/3/2021			0.622 (U)	3.18					
11/4/2021					0.721 (U)				
2/10/2022	1.25 (U)	0.81 (U)				0.964 (U)	0.846 (U)		
2/11/2022			0.395 (U)	0.815 (U)	1.52				
8/31/2022	0.326 (U)								
9/1/2022		0.463 (U)	0.189 (U)	2.54	0.225 (U)	0.389 (U)			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50	PZ-54D
2/8/2023		0.742 (U)		2.37	0.218 (U)				
2/9/2023	0.718 (U)		0.326 (U)			0.467 (U)			
2/10/2023							0.137 (U)		
8/16/2023	0.643 (U)		0.319 (U)	2.05		0.924 (U)	0.889 (U)		
8/17/2023		1.9			1.88			1.09 (U)	
12/20/2023								0.477 (U)	
2/21/2024		0.789 (U)		1.78	0.689 (U)				
2/22/2024						0.894 (U)		0.871 (U)	
2/23/2024	0.824 (U)		0.536 (U)				0.311 (U)		
6/10/2024								0.828 (U)	
6/12/2024									4.88
8/21/2024		0.763 (U)		3.19	0.998 (U)				
8/22/2024	0.858 (U)		0.936 (U)			0.966	0.103 (U)		
8/23/2024								0.433 (U)	
11/7/2024									0.391 (U)
11/26/2024								0.398 (U)	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							<0.1	<0.1	
6/7/2016						<0.1			<0.1
7/27/2016						<0.1	<0.1	<0.1	<0.1
7/28/2016									
9/16/2016						<0.1		<0.1	
9/19/2016							<0.1		<0.1
11/2/2016									<0.1
11/3/2016						<0.1	<0.1	<0.1	
1/11/2017						<0.1	<0.1	<0.1	
1/13/2017									<0.1
3/1/2017							<0.1	<0.1	
3/2/2017						<0.1			
3/6/2017									<0.1
4/26/2017							<0.1	<0.1	<0.1
5/2/2017						<0.1			
6/28/2017							<0.1	<0.1	
6/29/2017						<0.1			<0.1
10/3/2017									
10/4/2017						<0.1		<0.1	<0.1
10/5/2017							<0.1		
3/28/2018						<0.1	<0.1	<0.1	
3/29/2018									<0.1
6/5/2018									
6/6/2018									<0.1
6/7/2018							<0.1		
6/11/2018						<0.1		<0.1	
9/25/2018						<0.1	<0.1	<0.1	<0.1
10/16/2018	<0.1								
3/5/2019						<0.1		<0.1	<0.1
3/6/2019							<0.1		
4/2/2019						<0.1			
4/3/2019							<0.1	<0.1	<0.1
9/24/2019									
9/25/2019						<0.1			<0.1
9/26/2019	<0.1						<0.1	<0.1	
2/11/2020						<0.1	<0.1	<0.1	
2/12/2020									<0.1
3/24/2020						<0.1	<0.1	<0.1	<0.1
3/25/2020	<0.1								
9/23/2020		<0.1		<0.1		<0.1	<0.1	<0.1	
9/24/2020	<0.1				<0.1				<0.1
2/9/2021	<0.1	<0.1		0.14	<0.1		<0.1	<0.1	<0.1
3/3/2021	<0.1	<0.1		0.14		<0.1	<0.1	<0.1	<0.1
3/4/2021					<0.1				
8/25/2021				<0.1					
8/26/2021					<0.1			<0.1	
8/27/2021						<0.1	<0.1		<0.1
9/1/2021	<0.1	<0.1							
2/9/2022						<0.1	<0.1	<0.1	<0.1
2/10/2022	<0.1	<0.1	<0.1	<0.1	<0.1				
8/30/2022						<0.1	<0.1	<0.1	
8/31/2022	<0.1								<0.1

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
9/1/2022		0.063 (J)	0.091 (J)	0.078 (J)	0.055 (J)				
2/7/2023						<0.1	<0.1	<0.1	<0.1
2/8/2023		0.061 (J)		0.079 (J)	0.05 (J)				
2/9/2023	<0.1		0.079 (J)						
8/15/2023						<0.1	<0.1	<0.1	<0.1
8/16/2023	<0.1		0.081 (J)	<0.1	<0.1				
8/17/2023		<0.1							
2/20/2024						<0.1	<0.1		<0.1
2/21/2024			0.066 (J)						
2/22/2024		0.05 (J)		0.061 (J)	<0.1				
2/23/2024	<0.1							<0.1	
8/20/2024						<0.1	<0.1		<0.1
8/21/2024		<0.1						0.051 (J)	
8/22/2024	<0.1		0.075 (J)						
8/23/2024				0.071 (J)	0.05 (J)				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	<0.3
7/27/2016	
7/28/2016	0.02 (J)
9/16/2016	
9/19/2016	0.02 (J)
11/2/2016	
11/3/2016	<0.3
1/11/2017	
1/13/2017	<0.3
3/1/2017	
3/2/2017	
3/6/2017	<0.3
4/26/2017	0.04 (J)
5/2/2017	
6/28/2017	
6/29/2017	<0.3
10/3/2017	<0.3
10/4/2017	
10/5/2017	
3/28/2018	
3/29/2018	<0.3
6/5/2018	0.13 (J)
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	0 (J)
10/16/2018	
3/5/2019	0.32
3/6/2019	
4/2/2019	0.12 (J)
4/3/2019	
9/24/2019	0.15 (J)
9/25/2019	
9/26/2019	
2/11/2020	
2/12/2020	0.1 (J)
3/24/2020	0.081 (J)
3/25/2020	
9/23/2020	
9/24/2020	0.079 (J)
2/9/2021	0.092 (J)
3/3/2021	
3/4/2021	0.091 (J)
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	0.11
2/9/2022	0.1
2/10/2022	
8/30/2022	0.1
8/31/2022	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
9/1/2022	
2/7/2023	0.1
2/8/2023	
2/9/2023	
8/15/2023	0.061 (J)
8/16/2023	
8/17/2023	
2/20/2024	0.083 (J)
2/21/2024	
2/22/2024	
2/23/2024	
8/20/2024	0.062 (J)
8/21/2024	
8/22/2024	
8/23/2024	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.1	0.11 (J)	<0.1				
6/7/2016						<0.1			
7/26/2016			<0.1	0.05 (J)	<0.1				
7/28/2016						0.03 (J)			
8/30/2016									0.02 (J)
8/31/2016									
9/14/2016			<0.1	0.04 (J)	<0.1				
9/20/2016						<0.1			
11/2/2016			<0.1	<0.1					
11/4/2016					<0.1				
11/8/2016						<0.1			
11/16/2016									0.07 (J)
1/12/2017				0.04 (J)	<0.1				
1/13/2017			<0.1						
1/16/2017						<0.1			
2/24/2017									
2/27/2017									0.06 (J)
3/6/2017			<0.1						
3/7/2017				<0.1	<0.1				
3/9/2017						<0.1			
5/1/2017			<0.1	<0.1					
5/2/2017					<0.1	<0.1			
5/10/2017									<0.1
6/27/2017				<0.1	<0.1				
6/29/2017			<0.1						
7/10/2017						<0.1			
7/11/2017									<0.1
10/3/2017				<0.1	<0.1				
10/5/2017			<0.1						
10/11/2017	<0.1					<0.1			
10/12/2017		<0.1					<0.1	<0.1	<0.1
11/20/2017	<0.1	<0.1					0.2 (J)		
11/21/2017								<0.1	
1/10/2018		<0.1							
1/11/2018	<0.1							<0.1	
1/12/2018							0.21 (J)		
2/19/2018		<0.1						<0.1	
2/20/2018	0.23						<0.1		
3/29/2018			<0.1	<0.1	<0.1				
3/30/2018						<0.1			
4/3/2018	<0.1	<0.1					0.41	<0.1	
4/4/2018									<0.1
6/6/2018				0.15 (J)					
6/7/2018			<0.1		<0.1				
6/12/2018						<0.1			
6/27/2018								<0.1	
6/28/2018	<0.1	<0.1					0.43		
8/7/2018	0.048 (J)	<0.1					<0.1	0.11 (J)	
9/20/2018									0.041 (J)
9/24/2018	<0.1	<0.1					0.034 (J)	<0.1	
9/26/2018			<0.1	<0.1	<0.1				
9/27/2018						<0.1			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
3/4/2019			<0.1	0.19 (J)	<0.1				
3/6/2019						<0.1			
3/26/2019		<0.1							
3/27/2019	<0.1						0.24 (J)		<0.1
3/28/2019								0.1 (J)	
4/3/2019			<0.1	0.047 (J)	<0.1				
4/4/2019						0.049 (J)			
8/21/2019	<0.1	<0.1							
8/22/2019							<0.1	<0.1	<0.1
9/24/2019				0.05 (J)	<0.1				
9/25/2019			<0.1						
9/27/2019						0.12 (J)			
10/9/2019	<0.1	<0.1					<0.1	<0.1	<0.1
2/12/2020	<0.1	<0.1	<0.1	<0.1	<0.1				
3/24/2020		<0.1		<0.1	<0.1				
3/25/2020	<0.1		<0.1				<0.1	<0.1	<0.1
3/26/2020						<0.1			
9/22/2020			<0.1	0.056 (J)	<0.1				
9/24/2020	<0.1	<0.1				<0.1			<0.1
9/25/2020							<0.1	<0.1	
2/8/2021				0.055 (J)	<0.1				
2/9/2021			<0.1			<0.1	<0.1		
2/10/2021	<0.1	<0.1						<0.1	<0.1
3/2/2021				<0.1	<0.1				
3/3/2021			<0.1						
3/4/2021	<0.1	<0.1				<0.1	<0.1	<0.1	<0.1
8/25/2021						<0.1			<0.1
8/26/2021	0.063 (J)		<0.1	0.061 (J)	<0.1		<0.1	<0.1	
9/3/2021		<0.1							
9/27/2021									
2/8/2022	0.052 (J)	<0.1						<0.1	
2/10/2022				0.055 (J)	<0.1	<0.1	<0.1		<0.1
2/11/2022			<0.1						
8/30/2022				0.085 (J)	<0.1				
8/31/2022	0.065 (J)	0.05 (J)	0.061 (J)						
9/1/2022						0.057 (J)	<0.1	<0.1	0.053 (J)
2/7/2023	0.076 (J)			0.082 (J)					
2/8/2023		<0.1				<0.1	<0.1	<0.1	0.08 (J)
2/9/2023			0.067 (J)		<0.1				
8/15/2023	<0.1	<0.1	<0.1	<0.1	<0.1				
8/16/2023						<0.1	<0.1	<0.1	<0.1
2/20/2024	0.063 (J)	<0.1	0.059 (J)	0.076 (J)	<0.1				
2/21/2024						<0.1			
2/22/2024							<0.1	<0.1	<0.1
8/20/2024			<0.1	0.058 (J)	<0.1				
8/21/2024	0.083 (J)	0.06 (J)				<0.1			
8/22/2024									<0.1
8/23/2024							<0.1	<0.1	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	0.12 (J)
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	0.2 (J)
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	0.21 (J)
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	0.04 (J)
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	0.2 (J)
10/3/2017	
10/5/2017	
10/11/2017	
10/12/2017	0.1 (J)
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	<0.1
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	<0.1
9/24/2018	
9/26/2018	
9/27/2018	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
3/4/2019	
3/6/2019	
3/26/2019	
3/27/2019	
3/28/2019	0.078 (J)
4/3/2019	
4/4/2019	
8/21/2019	0.062 (J)
8/22/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	<0.1
2/12/2020	
3/24/2020	
3/25/2020	0.073 (J)
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	<0.1
2/8/2021	
2/9/2021	0.058 (J)
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	0.063 (J)
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	0.1
2/8/2022	0.066 (J)
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	0.091 (J)
2/7/2023	
2/8/2023	0.11
2/9/2023	
8/15/2023	
8/16/2023	0.062 (J)
2/20/2024	
2/21/2024	
2/22/2024	0.091 (J)
8/20/2024	
8/21/2024	
8/22/2024	0.05 (J)
8/23/2024	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/1/2016					0.12 (J)	<0.1			
6/2/2016				<0.1				<0.1	0.62
7/25/2016						0.06 (J)		0.06 (J)	
7/26/2016				0.02 (J)	0.08 (J)				0.49
8/30/2016		0.09 (J)							
8/31/2016			0.14 (J)						
9/1/2016	0.09 (J)								
9/13/2016					0.11 (J)	<0.1			
9/14/2016							0.08 (J)		
9/15/2016				<0.1					0.54
9/19/2016								<0.1	
11/1/2016					<0.3			<0.1	0.68
11/2/2016				<0.1					
11/4/2016						<0.1	<0.3		
11/14/2016		0.18 (J)							
11/15/2016	0.16 (J)								
11/28/2016			0.12 (J)						
12/15/2016							0.06 (J)		
1/10/2017				<0.1					
1/11/2017					0.05 (J)				0.49
1/16/2017						<0.1	0.1 (J)	<0.1	
2/21/2017								<0.1	
2/22/2017			0.09 (J)						
2/24/2017		0.05 (J)							
2/27/2017	0.06 (J)								
3/1/2017									
3/2/2017					<0.3	<0.1			0.48
3/3/2017							<0.3		
3/8/2017				<0.1					
4/26/2017				<0.1				<0.1	0.48
4/27/2017					0.04 (J)	0.01 (J)			
4/28/2017							0.06 (J)		
5/8/2017		0.03 (J)	0.05 (J)						
5/9/2017	0.05 (J)								
5/26/2017							0.09 (J)		
6/27/2017					<0.3	<0.1			
6/28/2017							0.11 (J)		0.47
6/30/2017				<0.1				<0.1	
7/11/2017		0.07 (J)							
7/13/2017	<0.1								
7/17/2017			0.14 (J)						
10/3/2017					<0.3	<0.1	<0.3		
10/4/2017								<0.1	<0.47
10/5/2017				<0.1					
10/10/2017		<0.1							
10/11/2017	0.14 (J)								
10/16/2017			0.12 (J)						
2/19/2018			0.17						
3/27/2018				<0.1		<0.1		<0.1	
3/28/2018							0.31		0.56
3/29/2018					<0.3				
4/2/2018		<0.1							

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
4/4/2018	<0.1								
6/5/2018					0.055 (J)				
6/6/2018						<0.1			
6/7/2018							0.11 (J)		0.48
6/8/2018				<0.1					
6/11/2018								<0.1	
8/6/2018			0.087 (J)						
9/19/2018		<0.1							
9/20/2018	<0.1								
10/1/2018				<0.1	<0.3	<0.1	<0.3		0.44
10/2/2018								<0.1	
2/25/2019			0.14 (J)						
2/26/2019				<0.1				<0.1	
2/27/2019					0.052 (J)	<0.1	0.12 (J)		0.53
3/27/2019		0.081 (J)							
3/28/2019	<0.1				0.036 (J)	<0.1			
3/29/2019				<0.1			0.13 (J)		
4/1/2019								<0.1	0.45
6/12/2019			0.12 (J)						
8/19/2019			<0.3						
8/20/2019		<0.1							
9/24/2019					0.063 (J)	<0.1	0.081 (J)		
9/25/2019				<0.1				<0.1	0.46
9/26/2019	0.09 (J)								
10/8/2019		0.034 (J)	0.052 (J)						
2/10/2020					0.061 (J)	<0.1			
2/11/2020							0.075 (J)		
2/12/2020				<0.1				<0.1	0.4
3/17/2020		<0.1	0.053 (J)						
3/18/2020				<0.1		<0.1			
3/19/2020					0.064 (J)		0.093 (J)	<0.1	0.51
3/25/2020	<0.1								
8/26/2020			0.068 (J)						
8/27/2020		<0.1							
9/22/2020		<0.1	0.058 (J)						
9/23/2020					0.058 (J)	<0.1	0.08 (J)		0.47
9/24/2020	<0.1							<0.1	
9/25/2020				<0.1					
2/9/2021	<0.1								
2/10/2021				<0.1			0.094 (J)		0.43
2/11/2021								<0.1	
2/12/2021					0.068 (J)	<0.1			
3/1/2021		<0.1						<0.1	
3/2/2021			0.073 (J)	<0.1					
3/3/2021					0.078 (J)	<0.1	0.085 (J)		0.44
3/4/2021	<0.1								
8/19/2021		<0.1		<0.1	0.074 (J)	<0.1		<0.1	0.47
8/20/2021			0.06 (J)						
8/27/2021							0.12		
9/1/2021	<0.1								
2/8/2022	<0.1	<0.1	0.064 (J)						
2/9/2022					0.057 (J)	<0.1	0.094 (J)		0.43

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
2/10/2022				<0.1					
2/11/2022								<0.1	
8/30/2022			0.086 (J)		0.093 (J)		0.12		
8/31/2022	<0.1	0.065 (J)		0.053 (J)		0.065 (J)		0.06 (J)	0.42
2/7/2023			0.095 (J)		0.093 (J)	0.071 (J)	0.12		
2/8/2023		0.077 (J)		0.059 (J)				0.064 (J)	0.56
2/9/2023	<0.1								
8/15/2023		<0.1	0.065 (J)	<0.1	0.057 (J)	<0.1	0.081 (J)		0.42
8/16/2023	<0.1							<0.1	
2/20/2024		0.073 (J)	0.094 (J)		0.086 (J)	<0.1	0.1	0.051 (J)	0.45
2/21/2024	<0.1								
2/23/2024				<0.1					
8/20/2024		<0.1		<0.1	0.066 (J)	<0.1	0.085 (J)	<0.1	0.45
8/22/2024	<0.1								

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/1/2016	0.15 (J)
6/2/2016	
7/25/2016	0.14 (J)
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	0.18 (J)
9/15/2016	
9/19/2016	
11/1/2016	<0.1
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	0.09 (J)
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	<0.1
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	0.08 (J)
4/27/2017	
4/28/2017	
5/8/2017	
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	0.12 (J)
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/3/2017	
10/4/2017	<0.1
10/5/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	<0.1
3/29/2018	
4/2/2018	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
4/4/2018	
6/5/2018	
6/6/2018	
6/7/2018	
6/8/2018	0.2 (J)
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	<0.1
10/2/2018	
2/25/2019	
2/26/2019	
2/27/2019	0.13 (J)
3/27/2019	
3/28/2019	
3/29/2019	
4/1/2019	0.1 (J)
6/12/2019	
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	0.1 (J)
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	0.094 (J)
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	0.11 (J)
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	0.098 (J)
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	<0.1
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	0.1
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	0.12
9/1/2021	
2/8/2022	
2/9/2022	0.097 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	0.13
2/7/2023	
2/8/2023	0.16
2/9/2023	
8/15/2023	
8/16/2023	0.11
2/20/2024	0.12
2/21/2024	
2/23/2024	
8/20/2024	0.12
8/22/2024	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50	PZ-54D
6/8/2016							<0.1		
8/1/2016							<0.1		
9/2/2016			0.05 (J)						
9/20/2016							<0.1		
11/8/2016							<0.1		
11/14/2016			0.18 (J)						
1/17/2017							<0.1		
2/28/2017			0.09 (J)						
3/8/2017							<0.1		
5/2/2017							<0.1		
5/9/2017			0.009 (J)						
7/7/2017							<0.1		
7/13/2017			<0.1						
9/22/2017			0.09 (J)						
9/29/2017			<0.1						
10/5/2017							<0.1		
10/6/2017			<0.1						
10/11/2017			<0.1						
10/12/2017		<0.1							
11/21/2017		0.26 (J)							
1/11/2018		<0.1							
2/20/2018		0.45							
3/30/2018			<0.1				<0.1		
4/3/2018		0.31							
6/12/2018							<0.1		
6/13/2018			<0.1						
6/29/2018		<0.1							
8/6/2018		0.23 (J)							
9/24/2018		<0.1							
9/26/2018			<0.1				<0.1		
10/16/2018	<0.1								
3/5/2019							<0.1		
3/6/2019			<0.1						
4/4/2019			0.043 (J)				0.033 (J)		
9/26/2019	<0.1		0.094 (J)				0.098 (J)		
3/25/2020	<0.1		<0.1						
3/26/2020							<0.1		
9/23/2020							<0.1		
9/24/2020	<0.1								
9/25/2020		<0.1							
10/7/2020			<0.1						
2/9/2021		<0.1					<0.1		
2/10/2021	<0.1		<0.1						
3/3/2021							<0.1		
3/4/2021	<0.1	<0.1	<0.1						
8/25/2021		<0.1							
9/1/2021	<0.1						<0.1		
9/3/2021			<0.1	0.15					
2/10/2022	<0.1	<0.1				0.1	<0.1		
2/11/2022			<0.1	0.17	0.1				
8/31/2022	<0.1								
9/1/2022		<0.1	<0.1	0.35	0.11	0.13			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50	PZ-54D
2/8/2023		<0.1		0.2	0.07 (J)				
2/9/2023	<0.1		<0.1			0.13			
2/10/2023							0.051 (J)		
8/16/2023	<0.1		<0.1	0.23		0.097 (J)	<0.1		
8/17/2023		<0.1			0.059 (J)			0.12	
12/20/2023								0.14	
2/21/2024		<0.1		0.21	0.053 (J)				
2/22/2024						0.14		0.14	
2/23/2024	<0.1		<0.1				<0.1		
6/10/2024								0.11	
6/12/2024									0.39
8/21/2024		<0.1		0.25	<0.1				
8/22/2024	<0.1		<0.1			0.17	<0.1		
8/23/2024								0.085 (J)	
11/7/2024									0.09 (J)
11/26/2024								0.15	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							<0.001	<0.001	
6/7/2016						<0.001			<0.001
7/27/2016						<0.001	<0.001	<0.001	<0.001
7/28/2016									
9/16/2016						<0.001		<0.001	
9/19/2016							<0.001		<0.001
11/2/2016									0.0013 (J)
11/3/2016						<0.001	<0.001	<0.001	
1/11/2017						<0.001	<0.001	<0.001	
1/13/2017									<0.001
3/1/2017							<0.001	<0.001	
3/2/2017						8E-05 (J)			
3/6/2017									<0.001
4/26/2017							<0.001	<0.001	<0.001
5/2/2017						<0.001			
6/28/2017							<0.001	0.0001 (J)	
6/29/2017						8E-05 (J)			<0.001
3/28/2018						<0.001	<0.001	<0.001	
3/29/2018									<0.001
3/5/2019						<0.001		<0.001	<0.001
3/6/2019							<0.001		
4/2/2019						<0.001			
4/3/2019							<0.001	<0.001	<0.001
9/24/2019									
9/25/2019						<0.001			<0.001
9/26/2019	<0.001						<0.001	<0.001	
2/11/2020						<0.001	<0.001	<0.001	
2/12/2020									<0.001
3/24/2020						6.4E-05 (J)	7.1E-05 (J)	5.4E-05 (J)	0.00011 (J)
3/25/2020	<0.001								
9/23/2020		<0.001		0.00028 (J)		4.1E-05 (J)	6E-05 (J)	9.7E-05 (J)	
9/24/2020	<0.001				0.00011 (J)				9.2E-05 (J)
2/9/2021	0.00019 (J)	0.00011 (J)		0.00054 (J)	7.3E-05 (J)		5E-05 (J)	9.4E-05 (J)	6.3E-05 (J)
3/3/2021	<0.001	8E-05 (J)		9.6E-05 (J)		<0.001	<0.001	7.6E-05 (J)	4.5E-05 (J)
3/4/2021					4.1E-05 (J)				
8/25/2021				<0.001					
8/26/2021					<0.001			<0.001	
8/27/2021						<0.001	<0.001		<0.001
9/1/2021	<0.001	<0.001							
2/9/2022						<0.001	<0.001	<0.001	<0.001
2/10/2022	<0.001	<0.001	<0.001	<0.001	<0.001				
8/30/2022						<0.001	<0.001	<0.001	
8/31/2022	<0.001								<0.001
9/1/2022		<0.001	<0.001	<0.001	<0.001				
2/7/2023						<0.001	<0.001	<0.001	<0.001
2/8/2023		<0.001		<0.001	<0.001				
2/9/2023	<0.001		<0.001						
8/15/2023						<0.001	<0.001	<0.001	<0.001
8/16/2023	<0.001		<0.001	<0.001	<0.001				
8/17/2023		<0.001							
2/20/2024						<0.001	<0.001		<0.001
2/21/2024			<0.001						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
2/22/2024		<0.001		<0.001	<0.001				
2/23/2024	<0.001							<0.001	
8/20/2024						<0.001	<0.001		<0.001
8/21/2024		<0.001						<0.001	
8/22/2024	<0.001		<0.001						
8/23/2024				<0.001	<0.001				

Time Series

Constituent: Lead (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	<0.001
7/27/2016	
7/28/2016	<0.001
9/16/2016	
9/19/2016	<0.001
11/2/2016	
11/3/2016	<0.001
1/11/2017	
1/13/2017	<0.001
3/1/2017	
3/2/2017	
3/6/2017	<0.001
4/26/2017	<0.001
5/2/2017	
6/28/2017	
6/29/2017	<0.001
3/28/2018	
3/29/2018	<0.001
3/5/2019	<0.001
3/6/2019	
4/2/2019	<0.001
4/3/2019	
9/24/2019	<0.001
9/25/2019	
9/26/2019	
2/11/2020	
2/12/2020	<0.001
3/24/2020	<0.001
3/25/2020	
9/23/2020	
9/24/2020	4.6E-05 (J)
2/9/2021	<0.001
3/3/2021	
3/4/2021	<0.001
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	<0.001
2/9/2022	<0.001
2/10/2022	
8/30/2022	<0.001
8/31/2022	
9/1/2022	
2/7/2023	<0.001
2/8/2023	
2/9/2023	
8/15/2023	<0.001
8/16/2023	
8/17/2023	
2/20/2024	<0.001
2/21/2024	

Time Series

Constituent: Lead (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
2/22/2024	
2/23/2024	
8/20/2024	<0.001
8/21/2024	
8/22/2024	
8/23/2024	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.001	<0.001	<0.001				
6/7/2016						0.00044 (J)			
7/26/2016			<0.001	<0.001	<0.001				
7/28/2016						<0.001			
8/30/2016									<0.001
8/31/2016									
9/14/2016			<0.001	<0.001	<0.001				
9/20/2016						<0.001			
11/2/2016			<0.001	<0.001					
11/4/2016					<0.001				
11/8/2016						<0.001			
11/16/2016									0.0002 (J)
1/12/2017				<0.001	<0.001				
1/13/2017			<0.001						
1/16/2017						<0.001			
2/24/2017									
2/27/2017									<0.001
3/6/2017			<0.001						
3/7/2017				0.0001 (J)	7E-05 (J)				
3/9/2017						<0.001			
5/1/2017			<0.001	<0.001					
5/2/2017					<0.001	<0.001			
5/10/2017									9E-05 (J)
6/27/2017				<0.001	<0.001				
6/29/2017			<0.001						
7/10/2017						<0.001			
7/11/2017									<0.001
10/11/2017	0.0001 (J)								
10/12/2017		9E-05 (J)					0.0001 (J)	<0.001	<0.001
11/20/2017	<0.001	<0.001					0.0001 (J)		
11/21/2017								<0.001	
1/10/2018		<0.001							
1/11/2018	0.0002 (J)							7E-05 (J)	
1/12/2018							0.0001 (J)		
2/19/2018		<0.001						<0.001	
2/20/2018	<0.001						<0.001		
3/29/2018			<0.001	<0.001	<0.001				
3/30/2018						<0.001			
4/3/2018	<0.001	<0.001					<0.001	<0.001	
4/4/2018									<0.001
6/27/2018								0.0011 (J)	
6/28/2018	<0.001	<0.001					<0.001		
8/7/2018	<0.001	<0.001					<0.001	<0.001	
9/20/2018									<0.001
9/24/2018	<0.001	<0.001					<0.001	<0.001	
3/4/2019			<0.001	<0.001	<0.001				
3/6/2019						<0.001			
4/3/2019			<0.001	<0.001	<0.001				
4/4/2019						<0.001			
8/21/2019	<0.001	<0.001							
8/22/2019							<0.001	6.7E-05 (J)	<0.001
9/24/2019				<0.001	9E-05 (J)				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
9/25/2019			<0.001						
9/27/2019						0.00013 (J)			
10/9/2019	<0.001	<0.001					<0.001	0.00012 (J)	<0.001
2/12/2020	<0.001	<0.001	<0.001	<0.001	<0.001				
3/24/2020		<0.001		5.4E-05 (J)	6.8E-05 (J)				
3/25/2020	5.1E-05 (J)		<0.001				<0.001	<0.001	4.7E-05 (J)
3/26/2020						<0.001			
9/22/2020			<0.001	4.5E-05 (J)	4.2E-05 (J)				
9/24/2020	<0.001	3.8E-05 (J)				4.6E-05 (J)			<0.001
9/25/2020							<0.001	<0.001	
2/8/2021				0.00013 (J)	3.7E-05 (J)				
2/9/2021			<0.001			<0.001	<0.001		
2/10/2021	<0.001	<0.001						0.0002 (J)	5.4E-05 (J)
3/2/2021				5.1E-05 (J)	9.2E-05 (J)				
3/3/2021			<0.001						
3/4/2021	<0.001	<0.001				0.00021 (J)	<0.001	<0.001	<0.001
8/25/2021						<0.001			<0.001
8/26/2021	<0.001		<0.001	<0.001	<0.001		<0.001	<0.001	
9/3/2021		<0.001							
9/27/2021									
2/8/2022	<0.001	<0.001						<0.001	
2/10/2022				<0.001	<0.001	<0.001	<0.001		<0.001
2/11/2022			<0.001						
8/30/2022				<0.001	<0.001				
8/31/2022	<0.001	<0.001	<0.001						
9/1/2022						<0.001	<0.001	<0.001	<0.001
2/7/2023	<0.001			<0.001					
2/8/2023		<0.001				<0.001	<0.001	<0.001	<0.001
2/9/2023			<0.001		<0.001				
8/15/2023	<0.001	<0.001	<0.001	<0.001	<0.001				
8/16/2023						<0.001	<0.001	<0.001	<0.001
2/20/2024	<0.001	<0.001	<0.001	<0.001	<0.001				
2/21/2024						<0.001			
2/22/2024							<0.001	<0.001	<0.001
8/20/2024			<0.001	<0.001	<0.001				
8/21/2024	<0.001	<0.001				<0.001			
8/22/2024									<0.001
8/23/2024							<0.001	<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	<0.001
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	<0.001
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	<0.001
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	8E-05 (J)
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	<0.001
10/11/2017	
10/12/2017	<0.001
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	<0.001
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	<0.001
9/24/2018	
3/4/2019	
3/6/2019	
4/3/2019	
4/4/2019	
8/21/2019	<0.001
8/22/2019	
9/24/2019	

Time Series

Constituent: Lead (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
9/25/2019	
9/27/2019	
10/9/2019	<0.001
2/12/2020	
3/24/2020	
3/25/2020	7.5E-05 (J)
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	<0.001
2/8/2021	
2/9/2021	<0.001
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	<0.001
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	<0.001
2/8/2022	<0.001
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	<0.001
2/7/2023	
2/8/2023	<0.001
2/9/2023	
8/15/2023	
8/16/2023	<0.001
2/20/2024	
2/21/2024	
2/22/2024	<0.001
8/20/2024	
8/21/2024	
8/22/2024	<0.001
8/23/2024	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/1/2007			<0.001						
9/11/2007			<0.001						
3/20/2008			<0.001						
8/27/2008			<0.001						
3/3/2009			<0.001						
11/18/2009			<0.001						
3/3/2010			<0.001						
9/8/2010			<0.001						
3/10/2011			<0.001						
9/8/2011			<0.001						
3/5/2012			<0.001						
9/10/2012			<0.001						
2/6/2013			<0.001						
8/12/2013			<0.001						
2/5/2014			<0.001						
8/5/2014			<0.001						
2/4/2015			<0.001						
8/3/2015			<0.001						
2/16/2016			<0.001						
6/1/2016					0.00056 (J)	<0.001			
6/2/2016				<0.001				<0.001	0.00056 (J)
7/25/2016						<0.001		<0.001	
7/26/2016				<0.001	<0.001				0.0001 (J)
8/30/2016		<0.001							
8/31/2016			<0.001						
9/1/2016	<0.001								
9/13/2016					0.0001 (J)	<0.001			
9/14/2016							<0.001		
9/15/2016				<0.001					0.0002 (J)
9/19/2016								<0.001	
11/1/2016					<0.001			<0.001	<0.001
11/2/2016				<0.001					
11/4/2016						<0.001	<0.001		
11/14/2016		<0.001							
11/15/2016	<0.001								
11/28/2016			<0.001						
12/15/2016							<0.001		
1/10/2017				<0.001					
1/11/2017					<0.001				<0.001
1/16/2017						<0.001	<0.001	<0.001	
2/21/2017								<0.001	
2/22/2017			<0.001						
2/24/2017		<0.001							
2/27/2017	<0.001								
3/1/2017									
3/2/2017					0.0001 (J)	<0.001			0.0002 (J)
3/3/2017							<0.001		
3/8/2017				0.0001 (J)					
4/26/2017				<0.001				<0.001	<0.001
4/27/2017					<0.001	<0.001			
4/28/2017							<0.001		
5/8/2017		<0.001	<0.001						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/9/2017	<0.001								
5/26/2017							<0.001		
6/27/2017					<0.001	<0.001			
6/28/2017							<0.001		<0.001
6/30/2017				<0.001				<0.001	
7/11/2017		<0.001							
7/13/2017	<0.001								
7/17/2017			<0.001						
10/10/2017		<0.001							
10/11/2017	<0.001								
10/16/2017			<0.001						
2/19/2018			<0.001						
3/27/2018				<0.001		<0.001		<0.001	
3/28/2018							<0.001		<0.001
3/29/2018					<0.001				
4/2/2018		<0.001							
4/4/2018	<0.001								
8/6/2018			<0.001						
9/19/2018		<0.001							
9/20/2018	<0.001								
2/25/2019			<0.001						
2/26/2019				<0.001				<0.001	
2/27/2019					<0.001	<0.001	<0.001		<0.001
6/12/2019			<0.001						
8/19/2019			<0.001						
8/20/2019		<0.001							
9/26/2019	<0.001								
10/8/2019			<0.001						
2/10/2020					4.9E-05 (J)	<0.001			
2/11/2020							<0.001		
2/12/2020				<0.001				<0.001	<0.001
3/17/2020			<0.001						
3/18/2020				<0.001		<0.001			
3/19/2020					0.00012 (J)		<0.001	<0.001	0.00017 (J)
3/25/2020	5.9E-05 (J)								
8/26/2020			<0.001						
8/27/2020		<0.001							
9/22/2020		<0.001	0.0001 (J)						
9/23/2020					<0.001	0.00021 (J)	0.0011 (J)		<0.001
9/24/2020	<0.001							<0.001	
9/25/2020				<0.001					
2/9/2021	<0.001								
2/10/2021				4.8E-05 (J)			0.00015 (J)		<0.001
2/11/2021								4.6E-05 (J)	
2/12/2021					4.4E-05 (J)	0.00038 (J)			
3/1/2021		<0.001						<0.001	
3/2/2021			<0.001	<0.001					
3/3/2021					5.6E-05 (J)	<0.001	<0.001		<0.001
3/4/2021	<0.001								
8/19/2021		<0.001		<0.001	<0.001	<0.001		<0.001	<0.001
8/20/2021			<0.001						
8/27/2021							<0.001		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
9/1/2021	<0.001								
2/8/2022	<0.001	<0.001	<0.001						
2/9/2022					<0.001	<0.001	<0.001		<0.001
2/10/2022				<0.001					
2/11/2022								<0.001	
8/30/2022			<0.001		<0.001		<0.001		
8/31/2022	<0.001	<0.001		<0.001		<0.001		<0.001	<0.001
2/7/2023			<0.001		<0.001	<0.001	<0.001		
2/8/2023		<0.001		<0.001				<0.001	<0.001
2/9/2023	<0.001								
8/15/2023		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001
8/16/2023	<0.001							<0.001	
2/20/2024		<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
2/21/2024	<0.001								
2/23/2024				<0.001					
8/20/2024		<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/22/2024	<0.001								

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 1/2/2025 12:02 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/1/2007	
9/11/2007	
3/20/2008	
8/27/2008	
3/3/2009	
11/18/2009	
3/3/2010	
9/8/2010	
3/10/2011	
9/8/2011	
3/5/2012	
9/10/2012	
2/6/2013	
8/12/2013	
2/5/2014	
8/5/2014	
2/4/2015	
8/3/2015	
2/16/2016	
6/1/2016	<0.001
6/2/2016	
7/25/2016	<0.001
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	<0.001
9/15/2016	
9/19/2016	
11/1/2016	<0.001
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	<0.001
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	<0.001
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	<0.001
4/27/2017	
4/28/2017	
5/8/2017	

Time Series

Constituent: Lead (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	<0.001
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	<0.001
3/29/2018	
4/2/2018	
4/4/2018	
8/6/2018	
9/19/2018	
9/20/2018	
2/25/2019	
2/26/2019	
2/27/2019	<0.001
6/12/2019	
8/19/2019	
8/20/2019	
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	<0.001
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	<0.001
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	0.00015 (J)
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	<0.001
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	<0.001
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	<0.001

Time Series

Constituent: Lead (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
9/1/2021	
2/8/2022	
2/9/2022	<0.001
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	<0.001
2/7/2023	
2/8/2023	<0.001
2/9/2023	
8/15/2023	
8/16/2023	<0.001
2/20/2024	<0.001
2/21/2024	
2/23/2024	
8/20/2024	<0.001
8/22/2024	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50	PZ-54D
6/8/2016							<0.001		
8/1/2016							<0.001		
9/2/2016			0.0017 (J)						
9/20/2016							<0.001		
11/8/2016							<0.001		
11/14/2016			0.0002 (J)						
1/17/2017							<0.001		
2/28/2017			0.0003 (J)						
3/8/2017							<0.001		
5/2/2017							<0.001		
5/9/2017			0.0004 (J)						
7/7/2017							<0.001		
7/13/2017			0.0004 (J)						
9/22/2017			0.0003 (J)						
9/29/2017			0.0002 (J)						
10/6/2017			0.0002 (J)						
10/12/2017		0.0002 (J)							
11/21/2017		0.0002 (J)							
1/11/2018		0.0001 (J)							
2/20/2018		<0.001							
3/30/2018			<0.001				<0.001		
4/3/2018		<0.001							
6/29/2018		<0.001							
8/6/2018		<0.001							
9/24/2018		<0.001							
3/5/2019							<0.001		
3/6/2019			<0.001						
4/4/2019			0.00037 (J)				<0.001		
9/26/2019	<0.001		0.00023 (J)				<0.001		
3/25/2020	<0.001		0.0001 (J)						
3/26/2020							5.3E-05 (J)		
9/23/2020							<0.001		
9/24/2020	<0.001								
9/25/2020		8.5E-05 (J)							
10/7/2020			0.00077 (J)						
2/9/2021		8.8E-05 (J)					0.00036 (J)		
2/10/2021	8.7E-05 (J)		0.00051 (J)						
3/3/2021							<0.001		
3/4/2021	0.00015 (J)	<0.001	0.00025 (J)						
8/25/2021		<0.001							
9/1/2021	<0.001						<0.001		
9/3/2021			<0.001	<0.001					
2/10/2022	<0.001	<0.001				<0.001	<0.001		
2/11/2022			<0.001	<0.001	0.0031				
8/31/2022	<0.001								
9/1/2022		<0.001	<0.001	<0.001	<0.001	<0.001			
2/8/2023		<0.001		<0.001	<0.001				
2/9/2023	<0.001		<0.001			<0.001			
2/10/2023							<0.001		
8/16/2023	<0.001		<0.001	<0.001		<0.001	<0.001		
8/17/2023		<0.001			0.0014			0.0002 (J)	
12/20/2023								0.0003 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50	PZ-54D
2/21/2024		<0.001		<0.001	<0.001				
2/22/2024						<0.001		0.00021 (J)	
2/23/2024	<0.001		<0.001				0.00029 (J)		
6/10/2024								0.00042 (J)	
6/12/2024									0.047
8/21/2024		0.0002 (J)		<0.001	<0.001				
8/22/2024	0.0014		<0.001			0.00019 (J)	<0.001		
8/23/2024								0.00023 (J)	
11/7/2024									0.00063 (J)
11/26/2024								0.00033 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							0.0088	0.015	
6/7/2016						<0.03			<0.03
7/27/2016						<0.03	0.0087 (J)	0.0049 (J)	<0.03
7/28/2016									
9/16/2016						<0.03		0.0031 (J)	
9/19/2016							0.0043 (J)		<0.03
11/2/2016									<0.03
11/3/2016						<0.03	<0.03	0.0021 (J)	
1/11/2017						0.0035 (J)	0.0052 (J)	0.0025 (J)	
1/13/2017									<0.03
3/1/2017							0.0053 (J)	0.0029 (J)	
3/2/2017						<0.03			
3/6/2017									<0.03
4/26/2017							0.0041 (J)	0.0019 (J)	<0.03
5/2/2017						<0.03			
6/28/2017							0.0039 (J)	0.0016 (J)	
6/29/2017						<0.03			<0.03
3/28/2018						<0.03	0.0041 (J)	0.0024 (J)	
3/29/2018									<0.03
6/5/2018									
6/6/2018									<0.03
6/7/2018							0.0032 (J)		
6/11/2018						<0.03		0.0014 (J)	
9/25/2018						<0.03	0.0036 (J)	0.0016 (J)	<0.03
10/16/2018	0.0052 (J)								
3/5/2019						<0.03		0.0031 (J)	<0.03
3/6/2019							0.0033 (J)		
4/2/2019						<0.03			
4/3/2019							0.0035 (J)	0.0028 (J)	<0.03
9/24/2019									
9/25/2019						<0.03			<0.03
9/26/2019	<0.03						0.0032 (J)	0.0029 (J)	
2/11/2020						<0.03	0.0033 (J)	0.005 (J)	
2/12/2020									<0.03
3/24/2020						0.0034 (J)	0.0033 (J)	0.0035 (J)	<0.03
3/25/2020	0.0011 (J)								
9/23/2020		<0.03		0.03 (J)		<0.03	0.003 (J)	0.0022 (J)	
9/24/2020	0.011 (J)				0.013 (J)				<0.03
2/9/2021	0.021 (J)	<0.03		0.018 (J)	0.016 (J)		0.0031 (J)	0.0019 (J)	<0.03
3/3/2021	0.022 (J)	<0.03		0.02 (J)		<0.03	0.0034 (J)	0.0021 (J)	<0.03
3/4/2021					0.016 (J)				
8/25/2021				0.033					
8/26/2021					0.015 (J)			0.0019 (J)	
8/27/2021						<0.03	0.0032 (J)		<0.03
9/1/2021	0.013 (J)	<0.03							
11/17/2021			0.046 (o)						
12/9/2021			0.042 (R)						
2/9/2022						<0.03	0.0032 (J)	0.0015 (J)	0.00082 (J)
2/10/2022	0.014 (J)	<0.03	0.054	0.036	0.015 (J)				
8/30/2022						<0.03	0.0036 (J)	0.0014 (J)	
8/31/2022	0.021 (J)								<0.03
9/1/2022		<0.03	0.041	0.032	0.013 (J)				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
2/7/2023						<0.03	0.003 (J)	0.0012 (J)	<0.03
2/8/2023		<0.03		0.033	0.014 (J)				
2/9/2023	0.019 (J)		0.048						
8/15/2023						<0.03	<0.03	0.00077 (J)	<0.03
8/16/2023	0.016 (J)		0.04	0.033	0.014 (J)				
8/17/2023		<0.03							
2/20/2024						<0.03	0.0038 (J)		<0.03
2/21/2024			0.047						
2/22/2024		<0.03		0.036	0.014 (J)				
2/23/2024	0.017 (J)							<0.03	
8/20/2024						<0.03	0.0032 (J)		<0.03
8/21/2024		<0.03						0.0032 (J)	
8/22/2024	0.016 (J)		0.048						
8/23/2024				0.035	0.014 (J)				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	0.0055
7/27/2016	
7/28/2016	0.0045 (J)
9/16/2016	
9/19/2016	0.0054 (J)
11/2/2016	
11/3/2016	<0.03
1/11/2017	
1/13/2017	0.0062 (J)
3/1/2017	
3/2/2017	
3/6/2017	0.0059 (J)
4/26/2017	0.0054 (J)
5/2/2017	
6/28/2017	
6/29/2017	0.0047 (J)
3/28/2018	
3/29/2018	0.0062 (J)
6/5/2018	0.0061 (J)
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	0.0062 (J)
10/16/2018	
3/5/2019	0.0053 (J)
3/6/2019	
4/2/2019	0.0051 (J)
4/3/2019	
9/24/2019	0.0068 (J)
9/25/2019	
9/26/2019	
2/11/2020	
2/12/2020	0.0065 (J)
3/24/2020	0.0064 (J)
3/25/2020	
9/23/2020	
9/24/2020	0.0069 (J)
2/9/2021	0.006 (J)
3/3/2021	
3/4/2021	0.0062 (J)
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	0.0057 (J)
11/17/2021	
12/9/2021	
2/9/2022	0.0061 (J)
2/10/2022	
8/30/2022	0.0079 (J)
8/31/2022	
9/1/2022	

Time Series

Constituent: Lithium (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
2/7/2023	0.0059 (J)
2/8/2023	
2/9/2023	
8/15/2023	0.0062 (J)
8/16/2023	
8/17/2023	
2/20/2024	0.0062 (J)
2/21/2024	
2/22/2024	
2/23/2024	
8/20/2024	0.0057 (J)
8/21/2024	
8/22/2024	
8/23/2024	

Time Series

Constituent: Lithium (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			0.013	0.0049 (J)	<0.03				
6/7/2016						<0.03			
7/26/2016			0.0123 (J)	0.0063 (J)	0.0027 (J)				
7/28/2016						0.0019 (J)			
8/30/2016									0.0257 (J)
8/31/2016									
9/14/2016			0.0137 (J)	0.0058 (J)	0.0029 (J)				
9/20/2016						0.0021 (J)			
11/2/2016			0.0136 (J)	0.0053 (J)					
11/4/2016					<0.03				
11/8/2016						0.0024 (J)			
11/16/2016									0.0221 (J)
1/12/2017				0.0054 (J)	0.0032 (J)				
1/13/2017			0.0121 (J)						
1/16/2017						0.0022 (J)			
2/24/2017									
2/27/2017									0.0208 (J)
3/6/2017			0.0143 (J)						
3/7/2017				0.0056 (J)	0.0035 (J)				
3/9/2017						0.0025 (J)			
5/1/2017			0.0132 (J)	0.0031 (J)					
5/2/2017					0.0031 (J)	0.0019 (J)			
5/10/2017									0.0316 (J)
6/27/2017				0.0018 (J)	0.0029 (J)				
6/29/2017			0.0145 (J)						
7/10/2017						0.0018 (J)			
7/11/2017									0.0281 (J)
10/11/2017	0.0018 (J)								
10/12/2017		<0.03					0.0095 (J)	0.004 (J)	0.0331 (J)
11/20/2017	0.0018 (J)	<0.03					0.0083 (J)		
11/21/2017								0.0043 (J)	
1/10/2018		<0.03							
1/11/2018	0.0019 (J)							0.0044 (J)	
1/12/2018							0.0089 (J)		
2/19/2018		<0.03						<0.03	
2/20/2018	<0.03						0.0082 (J)		
3/29/2018			0.014 (J)	0.0058 (J)	0.0034 (J)				
3/30/2018						0.0039 (J)			
4/3/2018	0.0022 (J)	<0.03					0.0097 (J)	0.0047 (J)	
4/4/2018									0.037 (J)
6/6/2018				0.0068 (J)					
6/7/2018			0.013 (J)		0.0032 (J)				
6/12/2018						0.0017 (J)			
6/27/2018								0.0042 (J)	
6/28/2018	0.0026 (J)	<0.03					0.0093 (J)		
8/7/2018	0.0024 (J)	<0.03					0.0092 (J)	0.0038 (J)	
9/20/2018									0.049 (J)
9/24/2018	0.0022 (J)	<0.03					0.0083 (J)	0.0037 (J)	
9/26/2018			0.014 (J)	0.0065 (J)	0.0032 (J)				
9/27/2018						0.0017 (J)			
3/4/2019			0.015 (J)	0.0065 (J)	0.0032 (J)				
3/6/2019						0.0025 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
4/3/2019			0.014 (J)	0.007 (J)	0.0035 (J)				
4/4/2019						0.0018 (J)			
8/21/2019	0.0035 (J)	<0.03							
8/22/2019							0.0082 (J)	0.0035 (J)	0.047
9/24/2019				0.0065 (J)	0.0031 (J)				
9/25/2019			0.014 (J)						
9/27/2019						0.0017 (J)			
10/9/2019	0.0036 (J)	<0.03					0.0081 (J)	0.0032 (J)	0.037
2/12/2020	0.0041 (J)	<0.03	0.011 (J)	0.0066 (J)	0.0032 (J)				
3/24/2020		<0.03		0.0064 (J)	0.0033 (J)				
3/25/2020	0.0049 (J)		0.014 (J)				0.0081 (J)	0.0029 (J)	0.045
3/26/2020						0.0021 (J)			
9/22/2020			0.013 (J)	0.0066 (J)	0.0034 (J)				
9/24/2020	0.0054 (J)	<0.03				0.0035 (J)			0.05
9/25/2020							0.0069 (J)	0.0025 (J)	
2/8/2021				0.0063 (J)	0.0032 (J)				
2/9/2021			0.011 (J)			0.0026 (J)	0.0067 (J)		
2/10/2021	0.0071 (J)	<0.03						0.0021 (J)	0.058
3/2/2021				0.0018 (J)	0.0031 (J)				
3/3/2021			0.012 (J)						
3/4/2021	0.0084 (J)	<0.03				0.0026 (J)	0.0067 (J)	0.0021 (J)	0.059
8/25/2021						0.0026 (J)			0.053
8/26/2021	0.0082 (J)		0.0094 (J)	0.0075 (J)	0.0032 (J)		0.007 (J)	0.0021 (J)	
9/3/2021		<0.03							
9/27/2021									
2/8/2022	0.008 (J)	0.00076 (J)						0.0023 (J)	
2/10/2022				0.0076 (J)	0.0036 (J)	0.0029 (J)	0.0068 (J)		0.052
2/11/2022			0.012 (J)						
8/30/2022				0.0068 (J)	0.0035 (J)				
8/31/2022	0.0065 (J)	<0.03	0.013 (J)						
9/1/2022						0.0025 (J)	0.006 (J)	0.0019 (J)	0.054
2/7/2023	0.0065 (J)			0.0059 (J)					
2/8/2023		0.00074 (J)				0.0028 (J)	0.0058 (J)	0.0021 (J)	0.046
2/9/2023			0.014 (J)		0.0036 (J)				
8/15/2023	0.0064 (J)	<0.03	0.0083 (J)	0.0059 (J)	<0.03				
8/16/2023						0.0024 (J)	0.0058 (J)	0.0021 (J)	0.054
2/20/2024	0.0059 (J)	<0.03	0.014 (J)	0.0056 (J)	0.0033 (J)				
2/21/2024						0.0024 (J)			
2/22/2024							0.0058 (J)	0.0026 (J)	0.049
8/20/2024			0.011 (J)	0.0024 (J)	0.0031 (J)				
8/21/2024	0.0055 (J)	<0.03				0.0023 (J)			
8/22/2024									0.051
8/23/2024							0.0052 (J)	0.002 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	0.006 (J)
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	0.0095 (J)
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	0.0104 (J)
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	0.0123 (J)
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	0.0131 (J)
10/11/2017	
10/12/2017	0.013 (J)
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	0.016 (J)
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	0.019 (J)
9/24/2018	
9/26/2018	
9/27/2018	
3/4/2019	
3/6/2019	

Time Series

Constituent: Lithium (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
4/3/2019	
4/4/2019	
8/21/2019	0.015 (J)
8/22/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	0.018 (J)
2/12/2020	
3/24/2020	
3/25/2020	0.016 (J)
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	0.018 (J)
2/8/2021	
2/9/2021	0.024 (J)
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	0.025 (J)
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	0.0092 (J)
2/8/2022	0.016 (J)
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	0.014 (J)
2/7/2023	
2/8/2023	0.015 (J)
2/9/2023	
8/15/2023	
8/16/2023	0.015 (J)
2/20/2024	
2/21/2024	
2/22/2024	0.015 (J)
8/20/2024	
8/21/2024	
8/22/2024	0.015 (J)
8/23/2024	

Time Series

Constituent: Lithium (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/1/2016					0.015	<0.03			
6/2/2016				<0.03				<0.03	0.018
7/25/2016						0.002 (J)		<0.03	
7/26/2016				<0.03	0.0135 (J)				0.0221 (J)
8/30/2016		0.0061 (J)							
8/31/2016			<0.03						
9/1/2016	0.0034 (J)								
9/13/2016					0.0112 (J)	<0.03			
9/14/2016							0.004 (J)		
9/15/2016				<0.03					0.0197 (J)
9/19/2016								<0.03	
11/1/2016					0.0163 (J)			<0.03	0.0194 (J)
11/2/2016				<0.03					
11/4/2016						<0.03	<0.03		
11/14/2016		0.0064 (J)							
11/15/2016	0.0044 (J)								
11/28/2016			<0.03						
12/15/2016							0.0026 (J)		
1/10/2017				<0.03					
1/11/2017					0.0166 (J)				0.0177 (J)
1/16/2017						0.0023 (J)	0.0023 (J)	<0.03	
2/21/2017								<0.03	
2/22/2017			<0.03						
2/24/2017		0.0049 (J)							
2/27/2017	0.0036 (J)								
3/1/2017									
3/2/2017					0.0159 (J)	0.0025 (J)			0.0185 (J)
3/3/2017							0.0013 (J)		
3/8/2017				<0.03					
4/26/2017				<0.03				<0.03	0.0183 (J)
4/27/2017					0.0137 (J)	0.0027 (J)			
4/28/2017							0.0031 (J)		
5/8/2017		0.0053 (J)	0.0014 (J)						
5/9/2017	0.0038 (J)								
5/26/2017							0.0038 (J)		
6/27/2017					0.0094 (J)	0.0024 (J)			
6/28/2017							0.0026 (J)		0.0173 (J)
6/30/2017				<0.03				<0.03	
7/11/2017		0.0051 (J)							
7/13/2017	0.0036 (J)								
7/17/2017			<0.03						
10/10/2017		0.0043 (J)							
10/11/2017	0.0036 (J)								
10/16/2017			0.0016 (J)						
2/19/2018			<0.03						
3/27/2018				<0.03		0.0023 (J)		0.0011 (J)	
3/28/2018							0.0025 (J)		0.02 (J)
3/29/2018					0.0078 (J)				
4/2/2018		0.0045 (J)							
4/4/2018	0.0039 (J)								
6/5/2018					0.0079 (J)				
6/6/2018						0.0024 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/7/2018							0.0017 (J)		0.02 (J)
6/8/2018				<0.03					
6/11/2018								0.0012 (J)	
8/6/2018			<0.03						
9/19/2018		0.0043 (J)							
9/20/2018	0.0036 (J)								
10/1/2018				<0.03	0.0053 (J)	0.0023 (J)	<0.03		0.02 (J)
10/2/2018								<0.03	
2/26/2019				<0.03				0.0011 (J)	
2/27/2019					0.0093 (J)	0.0023 (J)	0.0011 (J)		0.021 (J)
3/28/2019					0.013 (J)	0.0022 (J)			
3/29/2019				<0.03			0.0016 (J)		
4/1/2019								0.001 (J)	0.021 (J)
8/19/2019			0.0019 (J)						
8/20/2019		0.0036 (J)							
9/24/2019					0.0046 (J)	0.0023 (J)	0.0011 (J)		
9/25/2019				<0.03				0.0011 (J)	0.02 (J)
9/26/2019	0.0036 (J)								
10/8/2019		0.0036 (J)	0.0015 (J)						
2/10/2020					0.011 (J)	0.0023 (J)			
2/11/2020							0.0012 (J)		
2/12/2020				<0.03				0.0013 (J)	0.019 (J)
3/17/2020		0.0046 (J)	0.0017 (J)						
3/18/2020				<0.03		0.0024 (J)			
3/19/2020					0.013 (J)		0.0022 (J)	0.0012 (J)	0.023 (J)
3/25/2020	0.0037 (J)								
8/26/2020			0.0032 (J)						
8/27/2020		0.0039 (J)							
9/22/2020		0.0036 (J)	0.0029 (J)						
9/23/2020					0.014 (J)	0.0024 (J)	0.0016 (J)		0.023 (J)
9/24/2020	0.0037 (J)							0.0011 (J)	
9/25/2020				<0.03					
2/9/2021	0.0038 (J)								
2/10/2021				<0.03			0.0039 (J)		0.023 (J)
2/11/2021								0.0012 (J)	
2/12/2021					0.01 (J)	0.0025 (J)			
3/1/2021		0.0037 (J)						0.0011 (J)	
3/2/2021			0.0033 (J)	<0.03					
3/3/2021					0.012 (J)	0.0025 (J)	0.0016 (J)		0.024 (J)
3/4/2021	0.0035 (J)								
8/19/2021		0.0038 (J)		<0.03	0.013 (J)	0.0023 (J)		0.0012 (J)	0.023 (J)
8/20/2021			0.0028 (J)						
8/27/2021							0.0058 (J)		
9/1/2021	0.0036 (J)								
2/8/2022	0.0036 (J)	0.0039 (J)	0.0031 (J)						
2/9/2022					0.013 (J)	0.0027 (J)	0.006 (J)		0.026 (J)
2/10/2022				<0.03					
2/11/2022								0.0014 (J)	
8/30/2022			0.0025 (J)		0.013 (J)		0.0044 (J)		
8/31/2022	0.0031 (J)	0.0037 (J)		<0.03		<0.03		0.0012 (J)	0.021 (J)
2/7/2023			0.0022 (J)		0.006 (J)	0.0029 (J)	0.0047 (J)		
2/8/2023		0.0037 (J)		<0.03				0.0011 (J)	0.023 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
2/9/2023	0.0033 (J)								
8/15/2023		0.004 (J)	<0.03	<0.03	0.0079 (J)	0.002 (J)	<0.03		0.023 (J)
8/16/2023	0.003 (J)							<0.03	
2/20/2024		0.0036 (J)	0.0024 (J)		0.0071 (J)	<0.03	0.0021 (J)	<0.03	0.021 (J)
2/21/2024	0.0029 (J)								
2/23/2024				<0.03					
8/20/2024		0.0036 (J)		<0.03	0.0037 (J)	0.0023 (J)	<0.03	<0.03	0.021 (J)
8/22/2024	0.0029 (J)								

Time Series

Constituent: Lithium (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/1/2016	0.01
6/2/2016	
7/25/2016	0.0132 (J)
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	0.012 (J)
9/15/2016	
9/19/2016	
11/1/2016	0.0115 (J)
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	0.0085 (J)
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	0.0114 (J)
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	0.0092 (J)
4/27/2017	
4/28/2017	
5/8/2017	
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	0.0085 (J)
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	0.013 (J)
3/29/2018	
4/2/2018	
4/4/2018	
6/5/2018	
6/6/2018	

Time Series

Constituent: Lithium (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/7/2018	
6/8/2018	0.012 (J)
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	0.011 (J)
10/2/2018	
2/26/2019	
2/27/2019	0.014 (J)
3/28/2019	
3/29/2019	
4/1/2019	0.013 (J)
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	0.01 (J)
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	0.013 (J)
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	0.014 (J)
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	0.013 (J)
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	0.015 (J)
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	0.017 (J)
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	0.026 (J)
9/1/2021	
2/8/2022	
2/9/2022	0.021 (J)
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	0.022 (J)
2/7/2023	
2/8/2023	0.018 (J)

Time Series

Constituent: Lithium (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
2/9/2023	
8/15/2023	
8/16/2023	0.025 (J)
2/20/2024	0.02 (J)
2/21/2024	
2/23/2024	
8/20/2024	0.017 (J)
8/22/2024	

Time Series

Constituent: Lithium (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50	PZ-54D
6/8/2016							<0.03		
8/1/2016							<0.03		
9/2/2016			0.0029 (J)						
9/20/2016							<0.03		
11/8/2016							<0.03		
11/14/2016			0.0044 (J)						
1/17/2017							<0.03		
2/28/2017			0.0038 (J)						
3/8/2017							<0.03		
5/2/2017							<0.03		
5/9/2017			0.0057 (J)						
7/7/2017							<0.03		
7/13/2017			0.007 (J)						
9/22/2017			0.0067 (J)						
9/29/2017			0.0064 (J)						
10/6/2017			0.0065 (J)						
10/12/2017		0.0271 (J)							
11/21/2017		0.0255 (J)							
1/11/2018		0.0271 (J)							
2/20/2018		<0.03							
3/30/2018			0.0061 (J)				<0.03		
4/3/2018		0.027 (J)							
6/12/2018							<0.03		
6/13/2018			0.0065 (J)						
6/29/2018		0.032 (J)							
8/6/2018		0.033 (J)							
9/24/2018		0.028 (J)							
9/26/2018			0.0063 (J)				<0.03		
10/16/2018	0.0011 (J)								
3/5/2019							<0.03		
3/6/2019			0.0057 (J)						
4/4/2019			0.0058 (J)				<0.03		
9/26/2019	<0.03		0.0041 (J)				<0.03		
3/25/2020	0.011 (J)		0.0032 (J)						
3/26/2020							<0.03		
9/23/2020							<0.03		
9/24/2020	0.001 (J)								
9/25/2020		0.028 (J)							
10/7/2020			0.0014 (J)						
2/9/2021		0.024 (J)					<0.03		
2/10/2021	0.0012 (J)		0.0011 (J)						
3/3/2021							<0.03		
3/4/2021	0.0015 (J)	0.028 (J)	<0.03						
8/25/2021		0.023 (J)							
9/1/2021	0.0019 (J)						<0.03		
9/3/2021			0.00086 (J)	0.013 (J)					
2/10/2022	0.0021 (J)	0.017 (J)				0.006 (J)	<0.03		
2/11/2022			0.00093 (J)	0.0087 (J)	0.015 (J)				
8/31/2022	0.0025 (J)								
9/1/2022		0.016 (J)	0.00089 (J)	0.0044 (J)	0.023 (J)	0.0051 (J)			
2/8/2023		0.013 (J)		0.0088 (J)	0.025 (J)				
2/9/2023	0.0026 (J)		0.001 (J)			0.0045 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50	PZ-54D
2/10/2023							<0.03		
8/16/2023	0.0026 (J)		0.0014 (J)	0.0095 (J)		0.0048 (J)	<0.03		
8/17/2023		0.016 (J)			0.029 (J)			0.0033 (J)	
12/20/2023								0.0035 (J)	
2/21/2024		0.015 (J)		0.009 (J)	0.027 (J)				
2/22/2024						0.005 (J)		0.0036 (J)	
2/23/2024	0.0032 (J)		0.0017 (J)				<0.03		
6/10/2024								0.0033 (J)	
6/12/2024									0.022 (J)
8/21/2024		0.017 (J)		0.0068 (J)	0.029 (J)				
8/22/2024	0.0028 (J)		0.002 (J)			0.0053 (J)	<0.03		
8/23/2024								0.0031 (J)	
11/7/2024									0.027 (J)
11/26/2024								0.0032 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							<0.0002	<0.0002	
6/7/2016						9.5E-05 (J)			9.6E-05 (J)
7/27/2016						<0.0002	<0.0002	<0.0002	<0.0002
7/28/2016									
9/16/2016						<0.0002		<0.0002	
9/19/2016							<0.0002		<0.0002
11/2/2016									<0.0002
11/3/2016						<0.0002	<0.0002	<0.0002	
1/11/2017						<0.0002	<0.0002	<0.0002	
1/13/2017									<0.0002
3/1/2017							<0.0002	<0.0002	
3/2/2017						<0.0002			
3/6/2017									<0.0002
4/26/2017							<0.0002	<0.0002	<0.0002
5/2/2017						<0.0002			
6/28/2017							<0.0002	<0.0002	
6/29/2017						<0.0002			<0.0002
3/28/2018						<0.0002	<0.0002	<0.0002	
3/29/2018									<0.0002
9/25/2018						<0.0002	<0.0002	<0.0002	<0.0002
3/5/2019						<0.0002		<0.0002	<0.0002
3/6/2019							<0.0002		
2/11/2020						<0.0002	<0.0002	<0.0002	
2/12/2020									<0.0002
9/23/2020		<0.0002		<0.0002					
9/24/2020	<0.0002				<0.0002				
2/9/2021	<0.0002	<0.0002		<0.0002	<0.0002		<0.0002	<0.0002	<0.0002
3/3/2021	<0.0002	<0.0002		<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
3/4/2021					<0.0002				
8/25/2021				<0.0002					
8/26/2021					<0.0002			<0.0002	
8/27/2021						<0.0002	<0.0002		<0.0002
9/1/2021	<0.0002	<0.0002							
2/9/2022						<0.0002	<0.0002	<0.0002	<0.0002
2/10/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002				
8/30/2022						<0.0002	<0.0002	<0.0002	
8/31/2022	<0.0002								<0.0002
9/1/2022		<0.0002	0.00016 (J)	<0.0002	<0.0002				
2/7/2023						0.00018 (J)	0.00013 (J)	0.00017 (J)	0.00015 (J)
2/8/2023		<0.0002		<0.0002	<0.0002				
2/9/2023	<0.0002		<0.0002						
8/15/2023						<0.0002	0.00014 (J)	0.00015 (J)	<0.0002
8/16/2023	<0.0002		<0.0002	<0.0002	<0.0002				
8/17/2023		<0.0002							
2/20/2024						<0.0002	<0.0002		<0.0002
2/21/2024			<0.0002						
2/22/2024		<0.0002		<0.0002	<0.0002				
2/23/2024	<0.0002							<0.0002	
8/20/2024						<0.0002	<0.0002		<0.0002
8/21/2024		<0.0002						<0.0002	
8/22/2024	0.00014 (J)		<0.0002						
8/23/2024				<0.0002	<0.0002				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	9.6E-05 (J)
7/27/2016	
7/28/2016	<0.0002
9/16/2016	
9/19/2016	<0.0002
11/2/2016	
11/3/2016	<0.0002
1/11/2017	
1/13/2017	<0.0002
3/1/2017	
3/2/2017	
3/6/2017	<0.0002
4/26/2017	<0.0002
5/2/2017	
6/28/2017	
6/29/2017	<0.0002
3/28/2018	
3/29/2018	<0.0002
9/25/2018	<0.0002
3/5/2019	<0.0002
3/6/2019	
2/11/2020	
2/12/2020	<0.0002
9/23/2020	
9/24/2020	
2/9/2021	<0.0002
3/3/2021	
3/4/2021	<0.0002
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	<0.0002
2/9/2022	<0.0002
2/10/2022	
8/30/2022	<0.0002
8/31/2022	
9/1/2022	
2/7/2023	0.00017 (J)
2/8/2023	
2/9/2023	
8/15/2023	<0.0002
8/16/2023	
8/17/2023	
2/20/2024	<0.0002
2/21/2024	
2/22/2024	
2/23/2024	
8/20/2024	<0.0002
8/21/2024	
8/22/2024	
8/23/2024	

Time Series

Constituent: Mercury (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.0002	<0.0002	<0.0002				
6/7/2016						9.8E-05 (J)			
7/26/2016			<0.0002	<0.0002	<0.0002				
7/28/2016						<0.0002			
8/30/2016									<0.0002
8/31/2016									
9/14/2016			<0.0002	<0.0002	<0.0002				
9/20/2016						<0.0002			
11/2/2016			<0.0002	<0.0002					
11/4/2016					<0.0002				
11/8/2016						<0.0002			
11/16/2016									<0.0002
1/12/2017				<0.0002	<0.0002				
1/13/2017			<0.0002						
1/16/2017						<0.0002			
2/24/2017									
2/27/2017									<0.0002
3/6/2017			<0.0002						
3/7/2017				<0.0002	<0.0002				
3/9/2017						<0.0002			
5/1/2017			<0.0002	<0.0002					
5/2/2017					<0.0002	<0.0002			
5/10/2017									<0.0002
6/27/2017				<0.0002	<0.0002				
6/29/2017			<0.0002						
7/10/2017						<0.0002			
7/11/2017									<0.0002
10/11/2017	<0.0002								
10/12/2017		<0.0002					<0.0002	<0.0002	<0.0002
11/20/2017	7E-05 (J)	8E-05 (J)					8E-05 (J)		
11/21/2017								6E-05 (J)	
1/10/2018		<0.0002							
1/11/2018	<0.0002							<0.0002	
1/12/2018							<0.0002		
2/19/2018		<0.0002						<0.0002	
2/20/2018	<0.0002						<0.0002		
3/29/2018			<0.0002	<0.0002	<0.0002				
3/30/2018						<0.0002			
4/3/2018	<0.0002	<0.0002					<0.0002	<0.0002	
4/4/2018									<0.0002
6/27/2018								<0.0002	
6/28/2018	<0.0002	3.6E-05 (J)					3.7E-05 (J)		
8/7/2018	<0.0002	<0.0002					<0.0002	<0.0002	
9/20/2018									4.8E-05 (J)
9/24/2018	<0.0002	<0.0002					<0.0002	<0.0002	
9/26/2018			<0.0002	<0.0002	<0.0002				
9/27/2018						<0.0002			
3/4/2019			<0.0002	<0.0002	<0.0002				
3/6/2019						<0.0002			
8/21/2019	<0.0002	<0.0002							
8/22/2019							<0.0002	<0.0002	<0.0002
2/12/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
2/8/2021				<0.0002	<0.0002				
2/9/2021			<0.0002			0.00015 (J)	<0.0002		
2/10/2021	<0.0002	<0.0002						<0.0002	<0.0002
3/2/2021				<0.0002	<0.0002				
3/3/2021			<0.0002						
3/4/2021	<0.0002	<0.0002				<0.0002	<0.0002	<0.0002	<0.0002
8/25/2021						<0.0002			<0.0002
8/26/2021	<0.0002		<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	
9/3/2021		0.00012 (J)							
9/27/2021									
2/8/2022	<0.0002	0.00013 (J)						<0.0002	
2/10/2022				<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
2/11/2022			<0.0002						
8/30/2022				<0.0002	<0.0002				
8/31/2022	<0.0002	0.00064	<0.0002						
9/1/2022						<0.0002	<0.0002	<0.0002	<0.0002
2/7/2023	<0.0002			<0.0002					
2/8/2023		<0.0002				<0.0002	<0.0002	<0.0002	<0.0002
2/9/2023			<0.0002		<0.0002				
8/15/2023	<0.0002	0.00037	0.00013 (J)	0.00015 (J)	0.00014 (J)				
8/16/2023						<0.0002	<0.0002	<0.0002	<0.0002
2/20/2024	<0.0002	0.00032	<0.0002	<0.0002	<0.0002				
2/21/2024						<0.0002			
2/22/2024							<0.0002	<0.0002	<0.0002
8/20/2024			<0.0002	<0.0002	<0.0002				
8/21/2024	<0.0002	0.00033				<0.0002			
8/22/2024									<0.0002
8/23/2024							<0.0002	<0.0002	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	<0.0002
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	<0.0002
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	<0.0002
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	<0.0002
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	<0.0002
10/11/2017	
10/12/2017	<0.0002
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	<0.0002
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	5.2E-05 (J)
9/24/2018	
9/26/2018	
9/27/2018	
3/4/2019	
3/6/2019	
8/21/2019	<0.0002
8/22/2019	
2/12/2020	

Time Series

Constituent: Mercury (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
2/8/2021	
2/9/2021	<0.0002
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	<0.0002
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	9E-05 (JB)
2/8/2022	<0.0002
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	<0.0002
2/7/2023	
2/8/2023	<0.0002
2/9/2023	
8/15/2023	
8/16/2023	<0.0002
2/20/2024	
2/21/2024	
2/22/2024	<0.0002
8/20/2024	
8/21/2024	
8/22/2024	<0.0002
8/23/2024	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/1/2007			<0.0002						
9/11/2007			<0.0002						
3/20/2008			<0.0002						
8/27/2008			<0.0002						
3/3/2009			<0.0002						
11/18/2009			<0.0002						
3/3/2010			<0.0002						
9/8/2010			<0.0002						
3/10/2011			<0.0002						
9/8/2011			<0.0002						
3/5/2012			<0.0002						
9/10/2012			<0.0002						
2/6/2013			<0.0002						
8/12/2013			<0.0002						
2/5/2014			<0.0002						
8/5/2014			<0.0002						
2/4/2015			<0.0002						
8/3/2015			<0.0002						
2/16/2016			1.36E-05 (J)						
6/1/2016					<0.0002	<0.0002			
6/2/2016				<0.0002				<0.0002	<0.0002
7/25/2016						<0.0002		<0.0002	
7/26/2016				<0.0002	<0.0002				<0.0002
8/30/2016		<0.0002							
8/31/2016			<0.0002						
9/1/2016	<0.0002								
9/13/2016					<0.0002	<0.0002			
9/14/2016							<0.0002		
9/15/2016				<0.0002					<0.0002
9/19/2016								<0.0002	
11/1/2016					<0.0002			<0.0002	<0.0002
11/2/2016				<0.0002					
11/4/2016						<0.0002	<0.0002		
11/14/2016		<0.0002							
11/15/2016	<0.0002								
11/28/2016			<0.0002						
12/15/2016							<0.0002		
1/10/2017				<0.0002					
1/11/2017					<0.0002				<0.0002
1/16/2017						<0.0002	<0.0002	<0.0002	
2/21/2017								<0.0002	
2/22/2017			<0.0002						
2/24/2017		<0.0002							
2/27/2017	<0.0002								
3/1/2017									
3/2/2017					<0.0002	<0.0002			<0.0002
3/3/2017							<0.0002		
3/8/2017				<0.0002					
4/26/2017				<0.0002				<0.0002	<0.0002
4/27/2017					<0.0002	<0.0002			
4/28/2017							<0.0002		
5/8/2017		<0.0002	<0.0002						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/9/2017	<0.0002								
5/26/2017							<0.0002		
6/27/2017					<0.0002	<0.0002			
6/28/2017							<0.0002		<0.0002
6/30/2017				<0.0002				<0.0002	
7/11/2017		<0.0002							
7/13/2017	<0.0002								
7/17/2017			<0.0002						
10/10/2017		<0.0002							
10/11/2017	<0.0002								
10/16/2017			<0.0002						
2/19/2018			<0.0002						
3/27/2018				<0.0002		<0.0002		<0.0002	
3/28/2018							<0.0002		<0.0002
3/29/2018					<0.0002				
4/2/2018		<0.0002							
4/4/2018	<0.0002								
8/6/2018			<0.0002						
9/19/2018		5.3E-05 (J)							
9/20/2018	6.1E-05 (J)								
2/25/2019			7.4E-05 (J)						
2/26/2019				6.1E-05 (J)				6.8E-05 (J)	
2/27/2019					5.1E-05 (J)	5.4E-05 (J)	<0.0002		6.2E-05 (J)
3/28/2019					4E-05 (J)	<0.0002			
3/29/2019				<0.0002			<0.0002		
4/1/2019								8.2E-05 (J)	9.6E-05 (J)
6/12/2019			<0.0002						
8/19/2019			<0.0002						
8/20/2019		<0.0002							
9/24/2019					<0.0002	<0.0002	<0.0002		
9/25/2019				<0.0002				<0.0002	<0.0002
10/8/2019			<0.0002						
2/10/2020					<0.0002	<0.0002			
2/11/2020							<0.0002		
2/12/2020				<0.0002				<0.0002	<0.0002
5/6/2020			<0.0002						
8/26/2020			<0.0002						
8/27/2020		<0.0002							
9/22/2020			<0.0002						
2/9/2021	0.00014 (J)								
2/10/2021				<0.0002			<0.0002		<0.0002
2/11/2021								<0.0002	
2/12/2021					<0.0002	<0.0002			
3/2/2021			<0.0002						
3/4/2021	<0.0002								
8/19/2021		<0.0002							
8/20/2021			<0.0002						
9/1/2021	<0.0002								
2/8/2022	<0.0002	<0.0002	<0.0002						
2/9/2022					<0.0002	<0.0002	<0.0002		<0.0002
2/10/2022				<0.0002					
2/11/2022								<0.0002	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
8/30/2022			<0.0002		<0.0002		<0.0002		
8/31/2022	<0.0002	<0.0002		<0.0002		<0.0002		<0.0002	<0.0002
2/7/2023			0.00013 (J)		<0.0002	<0.0002	<0.0002		
2/8/2023		<0.0002		<0.0002				<0.0002	<0.0002
2/9/2023	<0.0002								
8/15/2023		0.00014 (J)	<0.0002	0.00016 (J)	0.00015 (J)	0.00015 (J)	0.00015 (J)		0.00014 (J)
8/16/2023	<0.0002							<0.0002	
2/20/2024		<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/21/2024	<0.0002								
2/23/2024				<0.0002					
8/20/2024		<0.0002		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/22/2024	<0.0002								

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/1/2007	
9/11/2007	
3/20/2008	
8/27/2008	
3/3/2009	
11/18/2009	
3/3/2010	
9/8/2010	
3/10/2011	
9/8/2011	
3/5/2012	
9/10/2012	
2/6/2013	
8/12/2013	
2/5/2014	
8/5/2014	
2/4/2015	
8/3/2015	
2/16/2016	
6/1/2016	<0.0002
6/2/2016	
7/25/2016	<0.0002
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	<0.0002
9/15/2016	
9/19/2016	
11/1/2016	<0.0002
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	<0.0002
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	<0.0002
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	<0.0002
4/27/2017	
4/28/2017	
5/8/2017	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	<0.0002
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	<0.0002
3/29/2018	
4/2/2018	
4/4/2018	
8/6/2018	
9/19/2018	
9/20/2018	
2/25/2019	
2/26/2019	
2/27/2019	6.1E-05 (J)
3/28/2019	
3/29/2019	
4/1/2019	8.4E-05 (J)
6/12/2019	
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	<0.0002
10/8/2019	
2/10/2020	
2/11/2020	<0.0002
2/12/2020	
5/6/2020	
8/26/2020	
8/27/2020	
9/22/2020	
2/9/2021	
2/10/2021	<0.0002
2/11/2021	
2/12/2021	
3/2/2021	
3/4/2021	
8/19/2021	
8/20/2021	
9/1/2021	
2/8/2022	
2/9/2022	<0.0002
2/10/2022	
2/11/2022	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
8/30/2022	
8/31/2022	<0.0002
2/7/2023	
2/8/2023	<0.0002
2/9/2023	
8/15/2023	
8/16/2023	<0.0002
2/20/2024	<0.0002
2/21/2024	
2/23/2024	
8/20/2024	<0.0002
8/22/2024	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50	PZ-54D
6/8/2016							<0.0002		
8/1/2016							<0.0002		
9/2/2016			<0.0002						
9/20/2016							<0.0002		
11/8/2016							<0.0002		
11/14/2016			<0.0002						
1/17/2017							<0.0002		
2/28/2017			<0.0002						
3/8/2017							<0.0002		
5/2/2017							<0.0002		
5/9/2017			<0.0002						
7/7/2017							<0.0002		
7/13/2017			<0.0002						
9/22/2017			<0.0002						
9/29/2017			<0.0002						
10/6/2017			<0.0002						
10/12/2017		<0.0002							
11/21/2017		6E-05 (J)							
1/11/2018		<0.0002							
2/20/2018		<0.0002							
3/30/2018			<0.0002				<0.0002		
4/3/2018		<0.0002							
6/29/2018		<0.0002							
8/6/2018		<0.0002							
9/24/2018		<0.0002							
9/26/2018			<0.0002				<0.0002		
3/5/2019							<0.0002		
3/6/2019			<0.0002						
9/24/2020	<0.0002								
9/25/2020		<0.0002							
2/9/2021		<0.0002					<0.0002		
2/10/2021	<0.0002		<0.0002						
3/3/2021							<0.0002		
3/4/2021	<0.0002	<0.0002	<0.0002						
8/25/2021		<0.0002							
9/1/2021	<0.0002						<0.0002		
9/3/2021			<0.0002	<0.0002					
2/10/2022	<0.0002	<0.0002				<0.0002	<0.0002		
2/11/2022			<0.0002	<0.0002	<0.0002				
8/31/2022	<0.0002								
9/1/2022		0.00019 (J)	<0.0002	<0.0002	<0.0002	<0.0002			
2/8/2023		<0.0002		<0.0002	<0.0002				
2/9/2023	<0.0002		<0.0002			<0.0002			
2/10/2023							<0.0002		
8/16/2023	<0.0002		<0.0002	<0.0002		<0.0002	<0.0002		
8/17/2023		<0.0002			<0.0002			<0.0002	
12/20/2023								<0.0002	
2/21/2024		<0.0002		<0.0002	<0.0002				
2/22/2024						<0.0002		<0.0002	
2/23/2024	<0.0002		<0.0002				<0.0002		
6/10/2024								<0.0002	
6/12/2024									<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50	PZ-54D
8/21/2024		<0.0002		<0.0002	<0.0002				
8/22/2024	<0.0002		<0.0002			<0.0002	<0.0002		
8/23/2024								<0.0002	
11/7/2024									<0.0002
11/26/2024								<0.0002	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							<0.01	<0.01	
6/7/2016						<0.01			<0.01
7/27/2016						<0.01	<0.01	<0.01	<0.01
7/28/2016									
9/16/2016						<0.01		<0.01	
9/19/2016							<0.01		<0.01
11/2/2016									<0.01
11/3/2016						<0.01	<0.01	<0.01	
1/11/2017						<0.01	<0.01	<0.01	
1/13/2017									<0.01
3/1/2017							<0.01	<0.01	
3/2/2017						<0.01			
3/6/2017									<0.01
4/26/2017							<0.01	<0.01	<0.01
5/2/2017						<0.01			
6/28/2017							<0.01	<0.01	
6/29/2017						<0.01			<0.01
3/28/2018						<0.01	<0.01	<0.01	
3/29/2018									<0.01
3/5/2019						<0.01		<0.01	<0.01
3/6/2019							<0.01		
2/11/2020						<0.01	<0.01	<0.01	
2/12/2020									<0.01
3/24/2020						<0.01	<0.01	<0.01	<0.01
3/25/2020	<0.01								
9/23/2020		<0.01		0.0068 (J)		<0.01	<0.01	<0.01	
9/24/2020	0.0022 (J)				<0.01				<0.01
2/9/2021	0.0038 (J)	<0.01		0.0068 (J)	<0.01		<0.01	<0.01	<0.01
3/3/2021	0.0037 (J)	<0.01		0.0049 (J)		<0.01	<0.01	<0.01	<0.01
3/4/2021					<0.01				
8/25/2021				0.0081 (J)					
8/26/2021					<0.01			<0.01	
8/27/2021						<0.01	<0.01		<0.01
9/1/2021	0.0014 (J)	<0.01							
2/9/2022						<0.01	<0.01	<0.01	<0.01
2/10/2022	0.00089 (J)	<0.01	0.0036 (J)	0.0076 (J)	<0.01				
8/30/2022						<0.01	<0.01	<0.01	
8/31/2022	<0.01								<0.01
9/1/2022		<0.01	0.0057 (J)	0.0074 (J)	<0.01				
2/7/2023						<0.01	<0.01	<0.01	<0.01
2/8/2023		<0.01		0.0076 (J)	<0.01				
2/9/2023	<0.01		0.0067 (J)						
8/15/2023						<0.01	<0.01	<0.01	<0.01
8/16/2023	<0.01		0.0084 (J)	0.0074 (J)	<0.01				
8/17/2023		<0.01							
2/20/2024						<0.01	<0.01		<0.01
2/21/2024			0.0041 (J)						
2/22/2024		<0.01		0.0071 (J)	<0.01				
2/23/2024	<0.01							<0.01	
8/20/2024						<0.01	<0.01		<0.01
8/21/2024		0.0017 (J)						<0.01	
8/22/2024	<0.01		0.0047 (J)						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
8/23/2024				0.0074 (J)	<0.01				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	<0.01
7/27/2016	
7/28/2016	<0.01
9/16/2016	
9/19/2016	<0.01
11/2/2016	
11/3/2016	<0.01
1/11/2017	
1/13/2017	<0.01
3/1/2017	
3/2/2017	
3/6/2017	0.0007 (J)
4/26/2017	0.0008 (J)
5/2/2017	
6/28/2017	
6/29/2017	<0.01
3/28/2018	
3/29/2018	<0.01
3/5/2019	<0.01
3/6/2019	
2/11/2020	
2/12/2020	<0.01
3/24/2020	<0.01
3/25/2020	
9/23/2020	
9/24/2020	<0.01
2/9/2021	<0.01
3/3/2021	
3/4/2021	<0.01
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	<0.01
2/9/2022	<0.01
2/10/2022	
8/30/2022	<0.01
8/31/2022	
9/1/2022	
2/7/2023	<0.01
2/8/2023	
2/9/2023	
8/15/2023	<0.01
8/16/2023	
8/17/2023	
2/20/2024	<0.01
2/21/2024	
2/22/2024	
2/23/2024	
8/20/2024	<0.01
8/21/2024	
8/22/2024	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWA-21I (bg)

8/23/2024

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.01	0.0035 (J)	<0.01				
6/7/2016						<0.01			
7/26/2016			<0.01	0.0042 (J)	<0.01				
7/28/2016						<0.01			
8/30/2016									0.0019 (J)
8/31/2016									
9/14/2016			<0.01	0.0041 (J)	<0.01				
9/20/2016						<0.01			
11/2/2016			<0.01	0.0039 (J)					
11/4/2016					<0.01				
11/8/2016						<0.01			
11/16/2016									0.0027 (J)
1/12/2017				0.0041 (J)	<0.01				
1/13/2017			<0.01						
1/16/2017						<0.01			
2/24/2017									
2/27/2017									0.0031 (J)
3/6/2017			<0.01						
3/7/2017				0.0047 (J)	<0.01				
3/9/2017						<0.01			
5/1/2017			<0.01	0.0045 (J)					
5/2/2017					<0.01	<0.01			
5/10/2017									0.0017 (J)
6/27/2017				0.004 (J)	<0.01				
6/29/2017			<0.01						
7/10/2017						<0.01			
7/11/2017									0.0014 (J)
10/11/2017	0.0094 (J)								
10/12/2017		<0.01					<0.01	<0.01	<0.01
11/20/2017	0.0081 (J)	<0.01					<0.01		
11/21/2017								<0.01	
1/10/2018		<0.01							
1/11/2018	0.0074 (J)							<0.01	
1/12/2018							<0.01		
2/19/2018		<0.01						<0.01	
2/20/2018	<0.01						<0.01		
3/29/2018			<0.01	<0.01	<0.01				
3/30/2018						<0.01			
4/3/2018	0.006 (J)	<0.01					<0.01	<0.01	
4/4/2018									<0.01
6/27/2018								<0.01	
6/28/2018	0.005 (J)	<0.01					<0.01		
8/7/2018	0.0045 (J)	<0.01					<0.01	<0.01	
9/20/2018									<0.01
9/24/2018	0.0035 (J)	<0.01					<0.01	<0.01	
3/4/2019			<0.01	<0.01	<0.01				
3/6/2019						<0.01			
8/21/2019	0.0021 (J)	<0.01							
8/22/2019							<0.01	<0.01	<0.01
10/9/2019	0.0018 (J)	<0.01					<0.01	<0.01	<0.01
2/12/2020	0.0025 (J)	<0.01	<0.01	0.0011 (J)	<0.01				
3/24/2020		<0.01		0.0011 (J)	<0.01				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
3/25/2020	0.002 (J)		<0.01				<0.01	<0.01	<0.01
3/26/2020						<0.01			
9/22/2020			<0.01	0.00099 (J)	<0.01				
9/24/2020	0.0016 (J)	<0.01				<0.01			0.00091 (J)
9/25/2020							<0.01	<0.01	
2/8/2021				0.0011 (J)	<0.01				
2/9/2021			<0.01			<0.01	<0.01		
2/10/2021	0.0013 (J)	<0.01						<0.01	0.00094 (J)
3/2/2021				<0.01	<0.01				
3/3/2021			<0.01						
3/4/2021	0.0014 (J)	<0.01				<0.01	<0.01	<0.01	0.00085 (J)
8/25/2021						<0.01			0.00078 (J)
8/26/2021	0.0027 (J)		<0.01	0.001 (J)	<0.01		<0.01	<0.01	
9/3/2021		<0.01							
9/27/2021									
2/8/2022	0.0035 (J)	<0.01						<0.01	
2/10/2022				0.00096 (J)	<0.01	<0.01	<0.01		0.0008 (J)
2/11/2022			<0.01						
8/30/2022				0.00089 (J)	<0.01				
8/31/2022	0.0036 (J)	<0.01	<0.01						
9/1/2022						<0.01	<0.01	<0.01	0.00079 (J)
2/7/2023	0.0045 (J)			0.00095 (J)					
2/8/2023		<0.01				<0.01	<0.01	<0.01	0.00081 (J)
2/9/2023			<0.01		<0.01				
8/15/2023	0.0061 (J)	<0.01	<0.01	0.0009 (J)	<0.01				
8/16/2023						<0.01	<0.01	<0.01	0.00096 (J)
2/20/2024	0.0058 (J)	<0.01	<0.01	0.001 (J)	<0.01				
2/21/2024						<0.01			
2/22/2024							<0.01	<0.01	0.00075 (J)
8/20/2024			<0.01	0.00074 (J)	<0.01				
8/21/2024	0.0068 (J)	<0.01				0.0016 (J)			
8/22/2024									0.00071 (J)
8/23/2024							<0.01	0.0019 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	0.0022 (J)
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	<0.01
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	<0.01
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	<0.01
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	<0.01
10/11/2017	
10/12/2017	<0.01
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	<0.01
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	<0.01
9/24/2018	
3/4/2019	
3/6/2019	
8/21/2019	0.0012 (J)
8/22/2019	
10/9/2019	0.0012 (J)
2/12/2020	
3/24/2020	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
3/25/2020	0.0015 (J)
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	0.0011 (J)
2/8/2021	
2/9/2021	0.0012 (J)
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	0.0011 (J)
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	0.0062 (J)
2/8/2022	0.002 (J)
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	0.0014 (J)
2/7/2023	
2/8/2023	0.0016 (J)
2/9/2023	
8/15/2023	
8/16/2023	0.0019 (J)
2/20/2024	
2/21/2024	
2/22/2024	0.0016 (J)
8/20/2024	
8/21/2024	
8/22/2024	0.0013 (J)
8/23/2024	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/1/2016					0.014 (J)	0.012 (J)			
6/2/2016				<0.01				<0.01	0.0093 (J)
7/25/2016						0.0098 (J)		<0.01	
7/26/2016				<0.01	0.0132				0.0113
8/30/2016		<0.01							
8/31/2016			<0.01						
9/1/2016	<0.01								
9/13/2016					0.0127	0.01 (J)			
9/14/2016							0.0039 (J)		
9/15/2016				<0.01					0.0112
9/19/2016								<0.01	
11/1/2016					0.0092 (J)			<0.01	0.0099 (J)
11/2/2016				<0.01					
11/4/2016						0.01	0.0077 (J)		
11/14/2016		<0.01							
11/15/2016	<0.01								
11/28/2016			<0.01						
12/15/2016							0.0066 (J)		
1/10/2017				<0.01					
1/11/2017					0.0093 (J)				0.0093 (J)
1/16/2017						0.0086 (J)	0.0056 (J)	<0.01	
2/21/2017								<0.01	
2/22/2017			<0.01						
2/24/2017		<0.01							
2/27/2017	0.0007 (J)								
3/1/2017									
3/2/2017					0.0099 (J)	0.01			0.0103
3/3/2017							0.0049 (J)		
3/8/2017				<0.01					
4/26/2017				<0.01				<0.01	0.01
4/27/2017					0.0103	0.0101			
4/28/2017							0.004 (J)		
5/8/2017		<0.01	<0.01						
5/9/2017	<0.01								
5/26/2017							0.0029 (J)		
6/27/2017					0.0097 (J)	0.0093 (J)			
6/28/2017							0.0036 (J)		0.0102
6/30/2017				<0.01				<0.01	
7/11/2017		<0.01							
7/13/2017	<0.01								
7/17/2017			<0.01						
10/10/2017		<0.01							
10/11/2017	<0.01								
10/16/2017			<0.01						
2/19/2018			<0.01						
3/27/2018				<0.01		0.0074 (J)		<0.01	
3/28/2018							0.0038 (J)		0.011
3/29/2018					0.0076 (J)				
4/2/2018		<0.01							
4/4/2018	<0.01								
6/5/2018					0.0092 (J)				
6/6/2018						0.0073 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/7/2018							0.004 (J)		0.011
6/8/2018				<0.01					
6/11/2018								<0.01	
8/6/2018			<0.01						
9/19/2018		<0.01							
9/20/2018	<0.01								
10/1/2018				<0.01	0.0085 (J)	0.0076 (J)	0.0042 (J)		0.012
10/2/2018								<0.01	
2/26/2019				<0.01				<0.01	
2/27/2019					0.0087 (J)	0.0078 (J)	0.0041 (J)		0.011
3/28/2019					0.0092 (J)	0.0082 (J)			
3/29/2019				<0.01			0.0041 (J)		
4/1/2019								<0.01	0.012
8/19/2019			<0.01						
8/20/2019		<0.01							
9/24/2019					0.0072 (J)	0.0074 (J)	0.0054 (J)		
9/25/2019				<0.01				<0.01	0.012
10/8/2019		<0.01							
2/10/2020					0.0087 (J)	0.0062 (J)			
2/11/2020							0.0057 (J)		
2/12/2020				<0.01				<0.01	0.013
3/17/2020		<0.01							
3/18/2020				<0.01		0.0056 (J)			
3/19/2020					0.0088 (J)		0.0046 (J)	<0.01	0.013
3/25/2020	<0.01								
8/26/2020			<0.01						
8/27/2020		<0.01							
9/22/2020		<0.01							
9/23/2020					0.008 (J)	0.0059 (J)	0.0071 (J)		0.012
9/24/2020	<0.01							<0.01	
9/25/2020				<0.01					
2/9/2021	<0.01								
2/10/2021				<0.01			0.0041 (J)		0.014
2/11/2021								<0.01	
2/12/2021					0.008 (J)	0.0056 (J)			
3/1/2021		<0.01						<0.01	
3/2/2021				<0.01					
3/3/2021					0.0088 (J)	0.0049 (J)	0.0074 (J)		0.013
3/4/2021	<0.01								
8/19/2021		<0.01		<0.01	0.0083 (J)	0.005 (J)		<0.01	0.013
8/20/2021			<0.01						
8/27/2021							0.0048 (J)		
9/1/2021	<0.01								
2/8/2022	<0.01	<0.01	<0.01						
2/9/2022					0.0093 (J)	0.0055 (J)	0.0057 (J)		0.013
2/10/2022				<0.01					
2/11/2022								<0.01	
8/30/2022			<0.01		0.0094 (J)		0.0068 (J)		
8/31/2022	<0.01	<0.01		<0.01		0.0055 (J)		<0.01	0.011
2/7/2023			<0.01		<0.01	<0.01	0.0061 (J)		
2/8/2023		<0.01		<0.01				<0.01	0.012
2/9/2023	<0.01								

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
8/15/2023		<0.01	<0.01	<0.01	0.0098 (J)	0.0047 (J)	0.0071 (J)		0.012
8/16/2023	<0.01							<0.01	
2/20/2024		<0.01	<0.01		0.0098 (J)	0.03	0.0076 (J)	<0.01	0.013
2/21/2024	<0.01								
2/23/2024				<0.01					
8/20/2024		<0.01		<0.01	0.01	0.0039 (J)	0.011	<0.01	0.012
8/22/2024	<0.01								

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/1/2016	0.0055 (J)
6/2/2016	
7/25/2016	0.0037 (J)
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	0.0034 (J)
9/15/2016	
9/19/2016	
11/1/2016	0.0025 (J)
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	0.0033 (J)
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	0.0044 (J)
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	0.0075 (J)
4/27/2017	
4/28/2017	
5/8/2017	
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	0.008 (J)
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	0.0025 (J)
3/29/2018	
4/2/2018	
4/4/2018	
6/5/2018	
6/6/2018	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/7/2018	
6/8/2018	0.0041 (J)
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	0.0037 (J)
10/2/2018	
2/26/2019	
2/27/2019	0.0027 (J)
3/28/2019	
3/29/2019	
4/1/2019	0.0021 (J)
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	0.0087 (J)
10/8/2019	
2/10/2020	
2/11/2020	0.003 (J)
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	0.0043 (J)
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	0.01
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	0.0038 (J)
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	0.0036 (J)
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	0.0099 (J)
9/1/2021	
2/8/2022	
2/9/2022	0.0087 (J)
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	0.0068 (J)
2/7/2023	
2/8/2023	0.0065 (J)
2/9/2023	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
8/15/2023	
8/16/2023	0.012
2/20/2024	0.0089 (J)
2/21/2024	
2/23/2024	
8/20/2024	0.0058 (J)
8/22/2024	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50	PZ-54D
6/8/2016							<0.01		
8/1/2016							<0.01		
9/2/2016			0.0027 (J)						
9/20/2016							<0.01		
11/8/2016							<0.01		
11/14/2016			0.0071 (J)						
1/17/2017							<0.01		
2/28/2017			0.0038 (J)						
3/8/2017							<0.01		
5/2/2017							<0.01		
5/9/2017			0.0025 (J)						
7/7/2017							<0.01		
7/13/2017			0.0014 (J)						
9/22/2017			<0.01						
9/29/2017			<0.01						
10/6/2017			<0.01						
10/12/2017		0.0022 (J)							
11/21/2017		0.0016 (J)							
1/11/2018		0.0015 (J)							
2/20/2018		<0.01							
3/30/2018			<0.01				<0.01		
4/3/2018		<0.01							
6/29/2018		0.0021 (J)							
8/6/2018		<0.01							
9/24/2018		<0.01							
3/5/2019							<0.01		
3/6/2019			<0.01						
3/25/2020	0.0019 (J)		<0.01						
3/26/2020							<0.01		
9/23/2020							<0.01		
9/24/2020	<0.01								
9/25/2020		0.0016 (J)							
10/7/2020			0.0015 (J)						
2/9/2021		0.0016 (J)					<0.01		
2/10/2021	<0.01		<0.01						
3/3/2021							<0.01		
3/4/2021	<0.01	0.0024 (J)	<0.01						
8/25/2021		0.0011 (J)							
9/1/2021	<0.01						<0.01		
9/3/2021			<0.01	0.0018 (J)					
2/10/2022	<0.01	<0.01				<0.01	<0.01		
2/11/2022			<0.01	0.0037 (J)	0.011				
8/31/2022	<0.01								
9/1/2022		<0.01	<0.01	0.0059 (J)	0.0084 (J)	<0.01			
2/8/2023		<0.01		0.0024 (J)	0.005 (J)				
2/9/2023	<0.01		<0.01			<0.01			
2/10/2023							<0.01		
8/16/2023	<0.01		<0.01	0.004 (J)		<0.01	<0.01		
8/17/2023		<0.01			0.003 (J)			<0.01	
12/20/2023								<0.01	
2/21/2024		<0.01		0.004 (J)	0.0025 (J)				
2/22/2024						<0.01		<0.01	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50	PZ-54D
2/23/2024	<0.01		<0.01				<0.01		
6/10/2024								<0.01	
6/12/2024									0.064
8/21/2024		<0.01		0.008 (J)	0.0021 (J)				
8/22/2024	<0.01		<0.01			<0.01	<0.01		
8/23/2024								<0.01	
11/7/2024									0.017
11/26/2024								<0.01	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: pH (S.U.) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							6.17	5.71	
6/7/2016						5.62			5.77
7/27/2016						5.59	6.14	5.46	5.79
7/28/2016									
9/16/2016						5.58			
9/19/2016							6.04	5.59	5.73
11/2/2016									5.67
11/3/2016						5.59	5.97	5.39	
1/11/2017						5.59	6.05	5.48	
1/13/2017									5.79
3/1/2017							5.94	5.41	
3/2/2017						5.54			
3/6/2017									5.63
4/26/2017							5.99	5.4	5.66
5/2/2017						5.47			
6/28/2017							6	5.36	
6/29/2017						5.56			5.85
10/3/2017									
10/4/2017						5.57		5.32	5.83
10/5/2017							6.11		
3/28/2018						5.59	6.1	5.34	
3/29/2018									5.93
6/5/2018									
6/6/2018									5.86
6/7/2018							5.98		
6/11/2018						5.58		5.28	
9/25/2018						5.59	5.81	4.86	5.84
3/5/2019						5.48		5.26	6.07
3/6/2019							5.99		
4/2/2019						5.74			
4/3/2019							6.29	5.47	5.71
9/24/2019									
9/25/2019						5.49			5.86
9/26/2019							6.04	5.2	
1/3/2020	5.78								
1/15/2020		6.25			5.64				
1/16/2020			6.67	6.47					
2/11/2020			6.62		5.37	5.58	6.07	5.3	
2/12/2020									6
3/24/2020						5.57	5.98	5.33	5.86
3/25/2020	6.13								
9/23/2020		5.66		5.89		5.58 (D)	6.01 (D)	5.29 (D)	
9/24/2020	6				5.38				5.8 (D)
2/9/2021	6.42	5.81		6.96	5.34		6.12	5.43	5.86
3/3/2021	6.54	5.67		6.8		5.52	5.89	5.31	5.89
3/4/2021					5.32				
8/25/2021				6.79					
8/26/2021					5.35			4.4	
8/27/2021						5.27	5.4		5.57
9/1/2021	5.97	6.67							
9/3/2021			5.74						
2/9/2022						5.53	5.98	5.28	5.91

Time Series

Constituent: pH (S.U.) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
2/10/2022	5.8	5.64	5.93	6.1	5.22 (D)				
8/30/2022						4.68	5.82	5.18	
8/31/2022	5.64								5.38
9/1/2022		4.98	5.93	5.87	5.32				
2/7/2023						5.47	6	5.03	5.63
2/8/2023		5.95		6.19	5.67				
2/9/2023	5.73		5.89						
8/15/2023						5.54	5.82	5.2	7
8/16/2023	5.8		5.92	5.94	5.41				
8/17/2023		4.77							
2/20/2024						5.64	6.11		5.99
2/21/2024			5.65						
2/22/2024		5.42		5.99					
2/23/2024	5.5							5.3	
8/20/2024						5.45	5.74		6
8/21/2024		5.5						5.29	
8/22/2024	5.44		5.74						
8/23/2024				5.92	5.28				

Time Series

Constituent: pH (S.U.) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	6.1
7/27/2016	
7/28/2016	6.12
9/16/2016	
9/19/2016	6.12
11/2/2016	
11/3/2016	6.07
1/11/2017	
1/13/2017	6.41
3/1/2017	
3/2/2017	
3/6/2017	6.34
4/26/2017	6.32
5/2/2017	
6/28/2017	
6/29/2017	6.47
10/3/2017	6.56
10/4/2017	
10/5/2017	
3/28/2018	
3/29/2018	6.75
6/5/2018	6.09
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	6.67
3/5/2019	7.22
3/6/2019	
4/2/2019	6.94
4/3/2019	
9/24/2019	6.87
9/25/2019	
9/26/2019	
1/3/2020	
1/15/2020	
1/16/2020	
2/11/2020	
2/12/2020	7.13
3/24/2020	6.35
3/25/2020	
9/23/2020	
9/24/2020	6.7 (D)
2/9/2021	6.95
3/3/2021	
3/4/2021	6.8
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	6.65
9/3/2021	
2/9/2022	6.84

Time Series

Constituent: pH (S.U.) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
2/10/2022	
8/30/2022	6.58
8/31/2022	
9/1/2022	
2/7/2023	6.82
2/8/2023	
2/9/2023	
8/15/2023	6.84
8/16/2023	
8/17/2023	
2/20/2024	6.78
2/21/2024	
2/22/2024	
2/23/2024	
8/20/2024	6.6
8/21/2024	
8/22/2024	
8/23/2024	

Time Series

Constituent: pH (S.U.) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			6.36	7.67	5.75				
6/7/2016						5.57			
7/26/2016			6.22	7.66	5.72				
7/28/2016						5.6			
8/30/2016									5.64
8/31/2016									
9/14/2016			6.23	7.6	5.74				
9/20/2016						5.53			
11/2/2016			6.08	7.35					
11/4/2016					5.61				
11/8/2016						5.53			
11/16/2016									6.21
1/12/2017				7.49	5.71				
1/13/2017			6.19						
1/16/2017						5.59			
2/24/2017									
2/27/2017									6.09
3/6/2017			6.2						
3/7/2017				7.43	5.66				
3/9/2017						5.56			
5/1/2017			6.21	7.22					
5/2/2017					5.65	5.61			
5/10/2017									5.79
6/27/2017				7.32	5.7				
6/29/2017			6.21						
7/10/2017						5.68			
7/11/2017									5.45
10/3/2017				7.48	5.79				
10/5/2017			6.16						
10/11/2017	6.4					5.46			
10/12/2017		5.43					4.85	4.94	5.48
11/20/2017	6.33	5.1					4.87		
11/21/2017								4.69	
1/10/2018		4.97							
1/11/2018	6.29							4.73	
1/12/2018							4.78		
2/19/2018		5.6						4.96	
2/20/2018	7.22						5.1		
3/29/2018			6.09	7.02	5.63				
3/30/2018						5.73			
4/3/2018	6.87	5.84					4.76	5.31	
4/4/2018									5.93
6/6/2018				7.43					
6/7/2018			6.12		5.63				
6/12/2018						5.63			
6/27/2018								4.78	
6/28/2018	6.18	5.24					4.75		
8/7/2018	6.08	5.18					4.72	4.77	
9/20/2018									5.63
9/24/2018	5.81	5.14					4.67	4.78	
9/26/2018			5.84	7.13	5.63				
9/27/2018						5.47			

Time Series

Constituent: pH (S.U.) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
3/4/2019			6.18	7.46	5.75				
3/6/2019						5.84			
3/26/2019		5.3							
3/27/2019	5.84						4.79		5.57
3/28/2019								5	
4/3/2019			6.43	7.11	5.63				
4/4/2019						5.64			
8/21/2019	5.96	5.26							
8/22/2019							4.81	4.89	5.61
9/24/2019				6.93	5.6				
9/25/2019			6.2						
9/27/2019						5.77			
10/9/2019	5.81	5.22					4.8	4.86	5.5
2/12/2020	5.97	5.3	6.15	7.52	5.83				
3/24/2020		5.29		7.34	5.81				
3/25/2020	5.78		6.26				4.89	4.87	5.53
3/26/2020						5.69			
9/22/2020			5.8 (D)	7.19 (D)	5.99 (D)				
9/24/2020	5.7 (D)	5.43 (D)				5.51			5.55
9/25/2020							4.9	4.95	
2/8/2021					5.67				
2/9/2021			6.06			5.61	5.04		
2/10/2021	5.8	5.19						4.98	5.65
3/2/2021				7.15	5.63				
3/3/2021			6.21						
3/4/2021	5.54	5.23				5.44	5.01	4.69	5.59
8/25/2021						5.46			6.73
8/26/2021	6.91		5.82	7.16	5.51		4.54	6.77	
9/3/2021		4.75							
9/27/2021									
2/8/2022	5.78	5.26						5.07 (D)	
2/10/2022				6.99	5.14	5.51	4.85		5.57
2/11/2022			5.95						
8/30/2022				7.4	5				
8/31/2022	5.3	4.53	5.5						
9/1/2022						5.27	4.91	4.43	5.49
2/7/2023	5.49			6.64					
2/8/2023		5.71				5.33	5.16	4.69	5.48
2/9/2023			6.23		5.9				
8/15/2023	5.78	5	5.99	7.34	5.58				
8/16/2023						5.36	4.83	5.01	5.53
2/20/2024	5.97	5.32	6.21	7.56	5.78				
2/21/2024						5.43			
2/22/2024							5.03	4.84	5.61
8/20/2024			6.03	7.3	5.58				
8/21/2024	6	5.38				5.4			
8/22/2024									5.52
8/23/2024							5.11	5.18	

Time Series

Constituent: pH (S.U.) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	7.27
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	6.79
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	6.39
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	6.5
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	6.32
10/3/2017	
10/5/2017	
10/11/2017	
10/12/2017	5.97
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	6.41
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	5.69
9/24/2018	
9/26/2018	
9/27/2018	

Time Series

Constituent: pH (S.U.) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
3/4/2019	
3/6/2019	
3/26/2019	
3/27/2019	
3/28/2019	5.96
4/3/2019	
4/4/2019	
8/21/2019	5.84
8/22/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	5.78
2/12/2020	
3/24/2020	
3/25/2020	5.79
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	5.75
2/8/2021	
2/9/2021	5.86
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	5.88
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	6.08
2/8/2022	5.82 (D)
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	5.62
2/7/2023	
2/8/2023	5.4
2/9/2023	
8/15/2023	
8/16/2023	5.58
2/20/2024	
2/21/2024	
2/22/2024	5.81
8/20/2024	
8/21/2024	
8/22/2024	5.61
8/23/2024	

Time Series

Constituent: pH (S.U.) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
8/27/2008			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 (D)						
2/16/2016			5.64						
6/1/2016					7.46	6.33			
6/2/2016				5.46				5.75	7.84
7/25/2016						6.21		5.82	
7/26/2016				5.45	7.43				7.88
8/30/2016		5.75							
9/1/2016	5.78								
9/13/2016					7.44	6.16	7.41		
9/14/2016									
9/15/2016				5.45					7.74
9/19/2016								5.78 (D)	
11/1/2016					7.24			5.62	7.75
11/2/2016				5.41					
11/4/2016						6.29	7.12		
11/14/2016		5.59							
11/15/2016	5.81								
11/28/2016			6.23						
12/15/2016							7.24		
1/10/2017				5.37					
1/11/2017					7.3				7.66
1/16/2017						6.29	7.24	5.72	
2/21/2017								5.67	
2/22/2017			6.21						
2/24/2017		5.49							
2/27/2017	5.68								
3/1/2017									
3/2/2017					7.23	6.28			7.68
3/3/2017							7.22		
3/8/2017				5.41					
4/26/2017				5.02				5.56	7.45
4/27/2017					6.99	6.09			
4/28/2017							7.21		
5/8/2017		5.58	6.12						
5/9/2017	6.18								
5/26/2017							7.13		
6/27/2017					6.87	6.21			
6/28/2017							7.06		7.65
6/30/2017				5.39				5.72	
7/11/2017		5.58							
7/13/2017	5.6								

Time Series

Constituent: pH (S.U.) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
7/17/2017			6.03						
10/3/2017					6.81	5.98	6.99		
10/4/2017								5.87	7.49
10/5/2017				5.49					
10/10/2017		5.49							
10/11/2017	5.61								
10/16/2017			6.12						
2/19/2018			6.13						
3/27/2018				5.47		6.25		5.83	
3/28/2018							7.3		7.91
3/29/2018					7.38				
4/2/2018		6.3							
4/4/2018	5.98								
6/5/2018					7.16				
6/6/2018						6.17			
6/7/2018							7.29		7.69
6/8/2018				5.45					
6/11/2018								5.69	
8/6/2018			6.01						
9/19/2018		5.48							
9/20/2018	5.67								
10/1/2018				5.39	6.8	5.9	7.07		7.39
10/2/2018								5.39	
2/25/2019			6.51						
2/26/2019				5.46				5.77	
2/27/2019					6.84	5.8	7.27		7.55
3/27/2019		5.83							
3/28/2019	5.86				6.99	6.15			
3/29/2019				5.34			7.06		
4/1/2019								5.62	7.87
6/12/2019			6.3						
8/19/2019			6.23						
8/20/2019		5.58							
9/24/2019					7.07	6.23	7.01		
9/25/2019				5.19				5.69	7.64
9/26/2019	5.6								
10/8/2019		5.59	6.28						
2/10/2020					7.2	6.1			
2/11/2020							7.38		
2/12/2020				5.48				5.8	7.83
3/17/2020		5.57	6.14						
3/18/2020				5.38		6.19			
3/19/2020					7.03		7.22	6	7.65
3/25/2020	5.69								
5/6/2020			6.24						
8/26/2020			5.67						
8/27/2020		4.88							
9/22/2020		5.46	5.78						
9/23/2020					7.15	6.01	7.22		7.57
9/24/2020	5.62							5.67	
9/25/2020				5.44					
2/9/2021	5.79								

Time Series

Constituent: pH (S.U.) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
2/10/2021				5.35			7.29		7.81
2/11/2021								5.73	
2/12/2021					7.14	6.21			
3/1/2021		5.48						5.78	
3/2/2021			5.42	5.49					
3/3/2021					7.2	5.38	7.92		8.39
3/4/2021	5.88								
8/19/2021		5.5		7.32	6.32	6.38			5.34
8/20/2021			5.86						
8/27/2021							7.14		
9/1/2021	5.15								
2/8/2022	5.79 (D)	5.4	5.83						
2/9/2022					7.12	6.24	5.89		7.97
2/10/2022				4.5					
2/11/2022								5.59	
8/30/2022			5.39		7.2		7.04		
8/31/2022	5.34	5.32		5.15		5.64		5.87	7.65
2/7/2023			5.94		7.86	6.53	6.94		
2/8/2023		5.22		5.39				6.43	7.88
2/9/2023	5.61								
8/15/2023		5.69	5.3	5.03	6.98	5.88	6.96		7.69
8/16/2023	5.04							5.55	
2/20/2024		5.62	6.07		7.06	6.42	7.23	5.81	7.81
2/21/2024	5.29								
2/23/2024				5.39					
8/20/2024		5.48		5.49	7.18	5.77	6.91	6.07	7.59
8/22/2024	5.72								

Time Series

Constituent: pH (S.U.) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
8/27/2008	
3/3/2009	
11/18/2009	
3/3/2010	
3/10/2011	
9/8/2011	
3/5/2012	
9/10/2012	
2/6/2013	
8/12/2013	
2/5/2014	
8/3/2015	
2/16/2016	
6/1/2016	7.72
6/2/2016	
7/25/2016	7.74
7/26/2016	
8/30/2016	
9/1/2016	
9/13/2016	
9/14/2016	7.65
9/15/2016	
9/19/2016	
11/1/2016	7.7
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	7.53
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	7.42
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	7.4
4/27/2017	
4/28/2017	
5/8/2017	
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	7.5
6/30/2017	
7/11/2017	
7/13/2017	

Time Series

Constituent: pH (S.U.) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
7/17/2017	
10/3/2017	
10/4/2017	7.45
10/5/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	7.74
3/29/2018	
4/2/2018	
4/4/2018	
6/5/2018	
6/6/2018	
6/7/2018	
6/8/2018	7.64
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	7.47
10/2/2018	
2/25/2019	
2/26/2019	
2/27/2019	7.54
3/27/2019	
3/28/2019	
3/29/2019	
4/1/2019	7.74
6/12/2019	
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	7.47
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	7.09
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	7.31
3/25/2020	
5/6/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	7.37
9/24/2020	
9/25/2020	
2/9/2021	

Time Series

Constituent: pH (S.U.) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
2/10/2021	7.58
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	
3/3/2021	8.23
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	7.39
9/1/2021	
2/8/2022	
2/9/2022	7.66
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	7.49
2/7/2023	
2/8/2023	7.73
2/9/2023	
8/15/2023	
8/16/2023	7.39
2/20/2024	7.59
2/21/2024	
2/23/2024	
8/20/2024	7.45
8/22/2024	

Time Series

Constituent: pH (S.U.) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50	PZ-54D
6/8/2016							5.65		
8/1/2016							5.47		
9/2/2016			5.84						
9/20/2016							5.61		
11/8/2016							5.55		
11/14/2016			6.28						
1/17/2017							5.53		
2/28/2017			5.99						
3/8/2017							5.62		
5/2/2017							5.46		
5/9/2017			6.3						
7/7/2017							5.81		
7/13/2017			5.57						
9/22/2017			5.5						
9/29/2017			5.58						
10/5/2017							5.45		
10/6/2017			5.51						
10/11/2017			5.47						
10/12/2017		5.57							
11/21/2017		5.49							
1/11/2018		5.87							
2/20/2018		5.9							
3/30/2018			5.51				5.64		
4/3/2018		5.66							
6/12/2018							5.64		
6/13/2018			5.5						
6/29/2018		5.49							
8/6/2018		5.52							
9/24/2018		5.37							
9/26/2018			5.53				5.61		
3/5/2019							5.72		
3/6/2019			5.21						
4/4/2019			5.74				5.66		
9/26/2019			5.51				5.52		
3/25/2020	5.65		5.49						
3/26/2020							5.51		
9/23/2020							5.64		
9/24/2020	5.52								
9/25/2020		5.46							
10/7/2020			5.86						
2/9/2021		5.42					5.69		
2/10/2021	5.53		6.31						
3/3/2021							5.7		
3/4/2021	5.64	5.51	5.67						
8/25/2021		5.48							
9/1/2021	6.82						5.22		
9/3/2021			5.06	7.44					
2/10/2022	5.35	4.93 (D)				4.46	4.66		
2/11/2022			5.58	7.84	6.4				
8/31/2022	5.28								
9/1/2022		4.98	5.18	8.06	6.2	4.74			
2/8/2023		5.15		7.95	6.12				

Time Series

Constituent: pH (S.U.) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50	PZ-54D
2/9/2023	5.5		5.67			5.14			
2/10/2023							5.67		
8/16/2023	5.34		5.36	8.05		4.68	5.89		
8/17/2023		5.13			5.6			5	
12/20/2023								4.63	
2/21/2024		5.12		8.17	5.98				
2/22/2024						4.9		5	
2/23/2024	5.24		5.2				5.62		
6/10/2024								4.63	7.02
8/21/2024		5.24		7.97	6.17				
8/22/2024	5.13		4.82			4.81	5.16		
8/23/2024								4.97	
11/7/2024									5.71
11/26/2024								5.03	

Time Series

Constituent: Selenium (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							<0.005	<0.005	
6/7/2016						0.001 (J)			<0.005
7/27/2016						0.0012 (J)	<0.005	<0.005	<0.005
7/28/2016									
9/16/2016						0.0015 (J)		<0.005	
9/19/2016							<0.005		<0.005
11/2/2016									<0.005
11/3/2016						0.0015 (J)	<0.005	<0.005	
1/11/2017						0.0014 (J)	<0.005	<0.005	
1/13/2017									<0.005
3/1/2017							<0.005	<0.005	
3/2/2017						0.0017 (J)			
3/6/2017									<0.005
4/26/2017							<0.005	<0.005	<0.005
5/2/2017						<0.005			
6/28/2017							<0.005	<0.005	
6/29/2017						<0.005			<0.005
3/28/2018						<0.005	<0.005	<0.005	
3/29/2018									<0.005
6/5/2018									
6/6/2018									<0.005
6/7/2018							<0.005		
6/11/2018						<0.005		<0.005	
9/25/2018						<0.005	<0.005	<0.005	<0.005
10/16/2018	0.0019 (J)								
3/5/2019						<0.005		<0.005	<0.005
3/6/2019							<0.005		
4/2/2019						<0.005			
4/3/2019							<0.005	<0.005	<0.005
9/24/2019									
9/25/2019						<0.005			<0.005
9/26/2019	<0.005						<0.005	<0.005	
1/15/2020		<0.005			0.045				
1/16/2020			<0.005	0.0018 (J)					
2/11/2020						<0.005	<0.005	<0.005	
2/12/2020									<0.005
3/24/2020						<0.005	<0.005	<0.005	<0.005
3/25/2020	<0.005								
9/23/2020		<0.005		0.016		<0.005	<0.005	<0.005	
9/24/2020	<0.005				0.026				<0.005
2/9/2021	<0.005	<0.005		<0.005	0.06		<0.005	<0.005	<0.005
3/3/2021	<0.005	<0.005		<0.005		<0.005	<0.005	<0.005	<0.005
3/4/2021					0.061				
8/25/2021				0.019					
8/26/2021					0.055			<0.005	
8/27/2021						<0.005	<0.005		<0.005
9/1/2021	0.0027 (J)	<0.005							
2/9/2022						<0.005	<0.005	<0.005	<0.005
2/10/2022	0.0034 (J)	<0.005	<0.005	0.019	0.057				
8/30/2022						<0.005	<0.005	<0.005	
8/31/2022	0.0041 (J)								<0.005
9/1/2022		<0.005	<0.005	0.023	0.048				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
2/7/2023						<0.005	<0.005	<0.005	<0.005
2/8/2023		<0.005		0.017	0.052				
2/9/2023	0.0051		<0.005						
8/15/2023						<0.005	<0.005	<0.005	<0.005
8/16/2023	0.0046 (J)		0.0075	0.019	0.054				
8/17/2023		<0.005							
2/20/2024						<0.005	<0.005		<0.005
2/21/2024			0.023						
2/22/2024		<0.005		0.015	0.053				
2/23/2024	0.0056							<0.005	
8/20/2024						<0.005	<0.005		<0.005
8/21/2024		0.0012 (J)						<0.005	
8/22/2024	0.0079		0.028						
8/23/2024				0.014	0.054				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	0.00048 (J)
7/27/2016	
7/28/2016	<0.005
9/16/2016	
9/19/2016	0.0014 (J)
11/2/2016	
11/3/2016	<0.005
1/11/2017	
1/13/2017	<0.005
3/1/2017	
3/2/2017	
3/6/2017	<0.005
4/26/2017	<0.005
5/2/2017	
6/28/2017	
6/29/2017	<0.005
3/28/2018	
3/29/2018	<0.005
6/5/2018	<0.005
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	<0.005
10/16/2018	
3/5/2019	<0.005
3/6/2019	
4/2/2019	<0.005
4/3/2019	
9/24/2019	<0.005
9/25/2019	
9/26/2019	
1/15/2020	
1/16/2020	
2/11/2020	
2/12/2020	<0.005
3/24/2020	<0.005
3/25/2020	
9/23/2020	
9/24/2020	<0.005
2/9/2021	<0.005
3/3/2021	
3/4/2021	<0.005
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	<0.005
2/9/2022	<0.005
2/10/2022	
8/30/2022	<0.005
8/31/2022	
9/1/2022	

Time Series

Constituent: Selenium (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
2/7/2023	<0.005
2/8/2023	
2/9/2023	
8/15/2023	<0.005
8/16/2023	
8/17/2023	
2/20/2024	<0.005
2/21/2024	
2/22/2024	
2/23/2024	
8/20/2024	<0.005
8/21/2024	
8/22/2024	
8/23/2024	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.005	<0.005	<0.005				
6/7/2016						0.037			
7/26/2016			0.0009 (J)	<0.005	0.0009 (J)				
7/28/2016						0.0385			
8/30/2016									0.0711
8/31/2016									
9/14/2016			<0.005	<0.005	<0.005				
9/20/2016						0.0464			
11/2/2016			<0.005	<0.005					
11/4/2016					<0.005				
11/8/2016						0.0521			
11/16/2016									0.0313
1/12/2017				<0.005	<0.005				
1/13/2017			<0.005						
1/16/2017						0.0469			
2/24/2017									
2/27/2017									0.0316
3/6/2017			<0.005						
3/7/2017				<0.005	<0.005				
3/9/2017						0.0437			
5/1/2017			<0.005	<0.005					
5/2/2017					<0.005	0.0395			
5/10/2017									0.053
6/27/2017				<0.005	<0.005				
6/29/2017			<0.005						
7/10/2017						0.0386			
7/11/2017									0.0697
10/11/2017	<0.005								
10/12/2017		<0.005					0.265	0.0191	0.0594
11/20/2017	<0.005	0.0042 (J)					0.246		
11/21/2017								0.0687	
1/10/2018		0.0043 (J)							
1/11/2018	<0.005							0.069	
1/12/2018							0.249		
2/19/2018		<0.005						0.071	
2/20/2018	<0.005						0.253		
3/29/2018			<0.005	<0.005	<0.005				
3/30/2018						0.028			
4/3/2018	<0.005	<0.005					0.23	0.067	
4/4/2018									0.055
6/6/2018				<0.005					
6/7/2018			<0.005		<0.005				
6/12/2018						0.026			
6/27/2018								0.066	
6/28/2018	<0.005	0.0032 (J)					0.23		
8/7/2018	<0.005	0.0031 (J)					0.2	0.061	
9/20/2018									0.041
9/24/2018	0.0015 (J)	0.0026 (J)					0.2	0.061	
9/26/2018			<0.005	<0.005	<0.005				
9/27/2018						0.023			
3/4/2019			<0.005	<0.005	<0.005				
3/6/2019						0.019			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
4/3/2019			<0.005	<0.005	<0.005				
4/4/2019						0.017			
8/21/2019	<0.005	0.0024 (J)							
8/22/2019							0.14	0.058	0.047
9/24/2019				<0.005	<0.005				
9/25/2019			<0.005						
9/27/2019						0.018			
10/9/2019	<0.005	0.0026 (J)					0.12	0.052	0.042
2/12/2020	<0.005	0.002 (J)	<0.005	<0.005	<0.005				
3/24/2020		0.002 (J)		<0.005	<0.005				
3/25/2020	<0.005		<0.005				0.099	0.057	0.046
3/26/2020						0.024			
9/22/2020			<0.005	<0.005	<0.005				
9/24/2020	<0.005	0.0016 (J)				0.031			0.046
9/25/2020							0.076	0.046	
2/8/2021				<0.005	<0.005				
2/9/2021			<0.005			0.032	0.073		
2/10/2021	<0.005	<0.005						0.033	0.043
3/2/2021				<0.005	<0.005				
3/3/2021			0.0019 (J)						
3/4/2021	<0.005	<0.005				0.037	0.076	0.037	0.048
8/25/2021						0.032			0.043
8/26/2021	<0.005		<0.005	<0.005	<0.005		0.06	0.027	
9/3/2021		<0.005							
9/27/2021									
2/8/2022	<0.005	0.0014 (J)						0.031	
2/10/2022				<0.005	<0.005	0.039	0.064		0.044
2/11/2022			<0.005						
8/30/2022				<0.005	<0.005				
8/31/2022	<0.005	<0.005	<0.005						
9/1/2022						0.036	0.055	0.027	0.035
2/7/2023	<0.005			<0.005					
2/8/2023		<0.005				0.035	0.056	0.027	0.041
2/9/2023			<0.005		<0.005				
8/15/2023	<0.005	<0.005	<0.005	<0.005	<0.005				
8/16/2023						0.03	0.053	0.023	0.019
2/20/2024	<0.005	<0.005	<0.005	<0.005	<0.005				
2/21/2024						0.031			
2/22/2024							0.048	0.021	0.037
8/20/2024			<0.005	<0.005	<0.005				
8/21/2024	<0.005	<0.005				0.03			
8/22/2024									0.038
8/23/2024							0.045	0.021	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	<0.005
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	<0.005
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	<0.005
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	<0.005
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	<0.005
10/11/2017	
10/12/2017	<0.005
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	<0.005
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	<0.005
9/24/2018	
9/26/2018	
9/27/2018	
3/4/2019	
3/6/2019	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
4/3/2019	
4/4/2019	
8/21/2019	<0.005
8/22/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	<0.005
2/12/2020	
3/24/2020	
3/25/2020	<0.005
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	<0.005
2/8/2021	
2/9/2021	<0.005
2/10/2021	
3/2/2021	
3/3/2021	
3/4/2021	<0.005
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	<0.005
2/8/2022	<0.005
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	<0.005
2/7/2023	
2/8/2023	<0.005
2/9/2023	
8/15/2023	
8/16/2023	<0.005
2/20/2024	
2/21/2024	
2/22/2024	<0.005
8/20/2024	
8/21/2024	
8/22/2024	<0.005
8/23/2024	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/1/2007			<0.005						
9/11/2007			<0.005						
3/20/2008			<0.005						
8/27/2008			<0.005						
3/3/2009			<0.005						
11/18/2009			<0.005						
3/3/2010			<0.005						
9/8/2010			<0.005						
3/10/2011			<0.005						
9/8/2011			<0.005						
3/5/2012			<0.005						
9/10/2012			<0.005						
2/6/2013			<0.005						
8/12/2013			<0.005						
2/5/2014			<0.005						
8/5/2014			<0.005						
2/4/2015			<0.005						
8/3/2015			<0.005						
2/16/2016			<0.005						
6/1/2016					<0.005	<0.005			
6/2/2016				0.0011 (J)				<0.005	<0.005
7/25/2016						<0.005		<0.005	
7/26/2016				0.0016 (J)	<0.005				<0.005
8/30/2016		0.0017 (J)							
8/31/2016			<0.005						
9/1/2016	0.0086 (J)								
9/13/2016					<0.005	<0.005			
9/14/2016							<0.005		
9/15/2016				0.0014 (J)					<0.005
9/19/2016								<0.005	
11/1/2016					<0.005			<0.005	<0.005
11/2/2016				<0.005					
11/4/2016						<0.005	<0.005		
11/14/2016		<0.005							
11/15/2016	0.0056 (J)								
11/28/2016			<0.005						
12/15/2016							<0.005		
1/10/2017				0.0012 (J)					
1/11/2017					<0.005				<0.005
1/16/2017						<0.005	<0.005	<0.005	
2/21/2017								<0.005	
2/22/2017			<0.005						
2/24/2017		0.0011 (J)							
2/27/2017	0.0098 (J)								
3/1/2017									
3/2/2017					<0.005	<0.005			<0.005
3/3/2017							<0.005		
3/8/2017				<0.005					
4/26/2017				<0.005				<0.005	<0.005
4/27/2017					<0.005	<0.005			
4/28/2017							<0.005		
5/8/2017		<0.005	<0.005						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/9/2017	0.0076 (J)								
5/26/2017							<0.005		
6/27/2017					<0.005	<0.005			
6/28/2017							<0.005		<0.005
6/30/2017				<0.005				<0.005	
7/11/2017		<0.005							
7/13/2017	0.0093 (J)								
7/17/2017			<0.005						
10/10/2017		<0.005							
10/11/2017	0.0089 (J)								
10/16/2017			<0.005						
2/19/2018			<0.005						
3/27/2018				<0.005		<0.005		<0.005	
3/28/2018							<0.005		<0.005
3/29/2018					<0.005				
4/2/2018		<0.005							
4/4/2018	<0.01								
8/6/2018			<0.005						
9/19/2018		<0.005							
9/20/2018	0.0081 (J)								
2/25/2019			<0.005						
2/26/2019				<0.005				<0.005	
2/27/2019					<0.005	<0.005	<0.005		<0.005
3/28/2019					<0.005	<0.005			
3/29/2019				0.0019 (J)			<0.005		
4/1/2019								<0.005	<0.005
6/12/2019			<0.005						
8/19/2019			<0.005						
8/20/2019		<0.005							
9/24/2019					<0.005	<0.005	<0.005		
9/25/2019				<0.005				<0.005	<0.005
9/26/2019	0.0077 (J)								
10/8/2019			<0.005						
2/10/2020					<0.005	<0.005			
2/11/2020							<0.005		
2/12/2020				<0.005				<0.005	<0.005
3/17/2020			<0.005						
3/18/2020				<0.005		<0.005			
3/19/2020					<0.005		<0.005	<0.005	<0.005
3/25/2020	0.0085 (J)								
8/26/2020			<0.005						
8/27/2020		<0.005							
9/22/2020			<0.005						
9/23/2020					<0.005	<0.005	<0.005		<0.005
9/24/2020	0.0091 (J)							<0.005	
9/25/2020				<0.005					
2/9/2021	0.0079 (J)								
2/10/2021				<0.005			<0.005		<0.005
2/11/2021								<0.005	
2/12/2021					<0.005	<0.005			
3/1/2021								<0.005	
3/2/2021			<0.005	<0.005					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
3/3/2021					<0.005	<0.005	<0.005		<0.005
3/4/2021	0.0058								
8/19/2021		<0.005		<0.005	<0.005	<0.005		<0.005	<0.005
8/20/2021			<0.005						
8/27/2021							<0.005		
9/1/2021	0.0066								
2/8/2022	0.0075	<0.005	<0.005						
2/9/2022					<0.005	<0.005	<0.005		<0.005
2/10/2022				0.0014 (J)					
2/11/2022								<0.005	
8/30/2022			<0.005		<0.005		<0.005		
8/31/2022	0.0062	<0.005		<0.005		<0.005		<0.005	<0.005
2/7/2023			<0.005		<0.005	<0.005	<0.005		
2/8/2023		<0.005		<0.005				<0.005	<0.005
2/9/2023	0.0054								
8/15/2023		<0.005	<0.005	0.0014 (J)	<0.005	<0.005	<0.005		<0.005
8/16/2023	0.0062							<0.005	
2/20/2024		<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005
2/21/2024	0.0055								
2/23/2024				0.001 (J)					
8/20/2024		<0.005		0.0012 (J)	<0.005	<0.005	<0.005	<0.005	<0.005
8/22/2024	0.0056								

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/1/2007	
9/11/2007	
3/20/2008	
8/27/2008	
3/3/2009	
11/18/2009	
3/3/2010	
9/8/2010	
3/10/2011	
9/8/2011	
3/5/2012	
9/10/2012	
2/6/2013	
8/12/2013	
2/5/2014	
8/5/2014	
2/4/2015	
8/3/2015	
2/16/2016	
6/1/2016	<0.005
6/2/2016	
7/25/2016	<0.005
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	<0.005
9/15/2016	
9/19/2016	
11/1/2016	<0.005
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	<0.005
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	<0.005
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	<0.005
4/27/2017	
4/28/2017	
5/8/2017	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	<0.005
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	<0.005
3/29/2018	
4/2/2018	
4/4/2018	
8/6/2018	
9/19/2018	
9/20/2018	
2/25/2019	
2/26/2019	
2/27/2019	<0.005
3/28/2019	
3/29/2019	
4/1/2019	<0.005
6/12/2019	
8/19/2019	
8/20/2019	
9/24/2019	
9/25/2019	<0.005
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	<0.005
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	<0.005
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	<0.005
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	<0.005
2/11/2021	
2/12/2021	
3/1/2021	
3/2/2021	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
3/3/2021	<0.005
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	<0.005
9/1/2021	
2/8/2022	
2/9/2022	<0.005
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	<0.005
2/7/2023	
2/8/2023	<0.005
2/9/2023	
8/15/2023	
8/16/2023	<0.005
2/20/2024	<0.005
2/21/2024	
2/23/2024	
8/20/2024	<0.005
8/22/2024	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50	PZ-54D
6/8/2016							<0.005		
8/1/2016							<0.005		
9/2/2016			0.0012 (J)						
9/20/2016							<0.005		
11/8/2016							<0.005		
11/14/2016			<0.005						
1/17/2017							<0.005		
2/28/2017			0.0017 (J)						
3/8/2017							<0.005		
5/2/2017							<0.005		
5/9/2017			0.0018 (J)						
7/7/2017							<0.005		
7/13/2017			0.0031 (J)						
9/22/2017			0.0024 (J)						
9/29/2017			0.002 (J)						
10/6/2017			<0.005						
10/12/2017		0.234							
11/21/2017		0.225							
1/11/2018		0.168							
2/20/2018		0.315							
3/30/2018			<0.005				<0.005		
4/3/2018		0.28							
6/12/2018							<0.005		
6/13/2018			0.0024 (J)						
6/29/2018		0.26							
8/6/2018		0.21							
9/24/2018		0.33							
9/26/2018			0.0037 (J)				<0.005		
10/16/2018	<0.005								
3/5/2019							<0.005		
3/6/2019			0.0033 (J)						
4/4/2019			0.0029 (J)				<0.005		
9/26/2019	<0.005		0.0019 (J)				<0.005		
3/25/2020	<0.005		0.0024 (J)						
3/26/2020							<0.005		
9/23/2020							<0.005		
9/24/2020	<0.005								
9/25/2020		0.32							
10/7/2020			<0.005						
2/9/2021		0.28					<0.005		
2/10/2021	<0.005		<0.005						
3/3/2021							<0.005		
3/4/2021	<0.005	0.27	<0.005						
8/25/2021		0.2							
9/1/2021	0.0016 (J)						<0.005		
9/3/2021			<0.005	<0.005					
2/10/2022	0.003 (J)	0.2				0.029	<0.005		
2/11/2022			<0.005	<0.005	0.0025 (J)				
8/31/2022	0.0033 (J)								
9/1/2022		0.17	<0.005	<0.005	0.0041 (J)	0.026			
2/8/2023		0.16		<0.005	0.0057				
2/9/2023	0.0041 (J)		0.0027 (J)			0.028			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50	PZ-54D
2/10/2023							<0.005		
8/16/2023	0.0039 (J)		0.0032 (J)	<0.005		0.024	<0.005		
8/17/2023		0.15			0.011			0.0018 (J)	
12/20/2023								0.0015 (J)	
2/21/2024		0.13		<0.005	0.0099				
2/22/2024						0.024		<0.005	
2/23/2024	0.0035 (J)		0.005 (J)				<0.005		
6/10/2024								0.0012 (J)	
6/12/2024									0.0056
8/21/2024		0.12		<0.005	0.01				
8/22/2024	0.0038 (J)		0.0054			0.022	<0.005		
8/23/2024								0.0015 (J)	
11/7/2024									<0.005
11/26/2024								0.0022 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							1.2	1.8	
6/7/2016						4.4			<1
7/27/2016						4.7	1.7	1.9	0.08 (J)
7/28/2016									
9/16/2016						4.8		1.7	
9/19/2016							1.8		0.08 (J)
11/2/2016									0.1 (J)
11/3/2016						5.3	0.69 (J)	1.9	
1/11/2017						5.2	<1	1.7	
1/13/2017									<1
3/1/2017							1.8	<1.5	
3/2/2017						5			
3/6/2017									<1
4/26/2017							1.6	1.9	<1
5/2/2017						5			
6/28/2017							<1	<1.5	
6/29/2017						5.2			<1
10/3/2017									
10/4/2017						5.3		1.7	<1
10/5/2017							1.6		
6/5/2018									
6/6/2018									0.049 (J)
6/7/2018							0.68 (J)		
6/11/2018						5.2		0.95 (J)	
9/25/2018						6.1	1	1.5	0.13 (J)
10/16/2018	83.7								
4/2/2019						5.1			
4/3/2019							0.82 (J)	1.3	0.12 (J)
9/24/2019									
9/25/2019						5.5			<1
9/26/2019	46.6						0.64 (J)	1	
3/24/2020						5.4	<1	0.99 (J)	<1
3/25/2020	11.7								
9/23/2020		9.1		152		5.1	0.53 (J)	1.1	
9/24/2020	13.1				438				<1
3/3/2021	16.9	7.9		91.7		5.2	<1	1	<1
3/4/2021					340				
8/25/2021				164					
8/26/2021					338			1.2	
8/27/2021						5.3	0.59 (J)		<1
9/1/2021	94.7	8.3							
2/9/2022						4.8	0.51 (J)	1.1	<1
2/10/2022	120	7.1	305	160	276				
8/30/2022						4.7	0.78 (J)	1.3	
8/31/2022	173								<1
9/1/2022		6.6	324	179	354				
2/7/2023						4.9	0.78 (J)	1.2	<1
2/8/2023		6.7		192	368				
2/9/2023	209		419						
8/15/2023						4.6	0.51 (J)	0.88 (J)	<1
8/16/2023	151		240	177	343				
8/17/2023		6.6							

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
2/20/2024						4.6	<1		<1
2/21/2024			386						
2/22/2024		6.2		208	369				
2/23/2024	237							0.79 (J)	
8/20/2024						4.6	0.74 (J)		<1
8/21/2024		7.3						1.1	
8/22/2024	279		371						
8/23/2024				193	367				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	5.2
7/27/2016	
7/28/2016	5.1
9/16/2016	
9/19/2016	4.8
11/2/2016	
11/3/2016	5
1/11/2017	
1/13/2017	4.3
3/1/2017	
3/2/2017	
3/6/2017	4.5
4/26/2017	4.9
5/2/2017	
6/28/2017	
6/29/2017	5.5
10/3/2017	5.8
10/4/2017	
10/5/2017	
6/5/2018	6.1
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	7
10/16/2018	
4/2/2019	3.8
4/3/2019	
9/24/2019	1
9/25/2019	
9/26/2019	
3/24/2020	3
3/25/2020	
9/23/2020	
9/24/2020	3.6
3/3/2021	
3/4/2021	4.5
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	5
2/9/2022	3.9
2/10/2022	
8/30/2022	3.2
8/31/2022	
9/1/2022	
2/7/2023	3.8
2/8/2023	
2/9/2023	
8/15/2023	4.1
8/16/2023	
8/17/2023	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
2/20/2024	3.8
2/21/2024	
2/22/2024	
2/23/2024	
8/20/2024	4
8/21/2024	
8/22/2024	
8/23/2024	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			8	20	1.9				
6/7/2016						56			
7/26/2016			7.7	20	1.8				
7/28/2016						57			
8/30/2016									980
8/31/2016									
9/14/2016			7.5	19	1.8				
9/20/2016						68			
11/2/2016			8.2	20					
11/4/2016					2				
11/8/2016						79			
11/16/2016									940
1/12/2017				19	1.9				
1/13/2017			8.1						
1/16/2017						72			
2/24/2017									
2/27/2017									940
3/6/2017			8						
3/7/2017				20	2.1				
3/9/2017						69			
5/1/2017			8.4	20					
5/2/2017					2	60			
5/10/2017									1200
6/27/2017				18	2.1				
6/29/2017			9.2						
7/10/2017						57			
7/11/2017									1300
10/3/2017				16	2.3				
10/5/2017			9.6						
10/11/2017	20					52			
10/12/2017		17					940	400	1100
11/20/2017	24	71					980		
11/21/2017								430	
1/10/2018		66							
1/11/2018	23							390	
1/12/2018							880		
2/19/2018		57.2						414	
2/20/2018	20.6						905		
4/3/2018	24.5	49.4					872	406	
4/4/2018									1020
6/6/2018				8.3					
6/7/2018			8.5		2				
6/12/2018						41.4			
6/27/2018								357	
6/28/2018	22	43.8					869		
8/7/2018	20.7	40.5					879	346	
9/20/2018									810
9/24/2018	21.2	39.7					872	358	
9/26/2018			10.2	7.9	2.3				
9/27/2018						39.6			
3/26/2019		34.3							
3/27/2019	17.7						851		831

Time Series

Constituent: Sulfate (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
3/28/2019								258	
4/3/2019			8.5	7	2.1				
4/4/2019						27.9			
9/24/2019				5.5	2.4				
9/25/2019			8.5						
9/27/2019						30.3			
10/9/2019	15	27.9					708	263	725
3/24/2020		25.2		5.9	2.1				
3/25/2020	14.3		8.8				483	214	642
3/26/2020						36.5			
9/22/2020			8.2	5.5	2.1				
9/24/2020	11.7	22.9				52.5			579
9/25/2020							414	175	
3/2/2021				2.6	2.3				
3/3/2021			7.8						
3/4/2021	12	21.5				61.7 (M1)	356	117	537
8/25/2021						68			500
8/26/2021	19.2		8.5	6	2.4		328	117	
9/3/2021		21.3							
9/27/2021									
2/8/2022	14.6	17.9						109	
2/10/2022				4.9	2.4	78.7	290		485
2/11/2022			7.7						
8/30/2022				5.7	2.4				
8/31/2022	10.9	17.9	8						
9/1/2022						79	282	117	502
2/7/2023	9.7			5.2					
2/8/2023		17.5				78	251	119	494
2/9/2023			8.9		2.9				
8/15/2023	7.6	16.4	7.5	4.8	2.2				
8/16/2023						69.3	227	104	451
2/20/2024	8.6	17.2	8.5	5.1	2.5				
2/21/2024						81			
2/22/2024							210	109	487
8/20/2024			8.7	4.3	2.6				
8/21/2024	6.6	18.2				89.3			
8/22/2024									432
8/23/2024							186	97.8	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	34
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	240
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	89
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	100
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	110
10/3/2017	
10/5/2017	
10/11/2017	
10/12/2017	120
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
4/3/2018	
4/4/2018	160
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	247
9/24/2018	
9/26/2018	
9/27/2018	
3/26/2019	
3/27/2019	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
3/28/2019	181
4/3/2019	
4/4/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	279
3/24/2020	
3/25/2020	164
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	281
3/2/2021	
3/3/2021	
3/4/2021	328
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	56.5
2/8/2022	133
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	169
2/7/2023	
2/8/2023	164
2/9/2023	
8/15/2023	
8/16/2023	151
2/20/2024	
2/21/2024	
2/22/2024	147
8/20/2024	
8/21/2024	
8/22/2024	181
8/23/2024	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/1/2016					5	4.2			
6/2/2016				6.6				1.3	5.8
7/25/2016						3.7		1.2	
7/26/2016				6.1	5.4				6.7
8/30/2016		160							
8/31/2016			29						
9/1/2016	95								
9/13/2016					2.9	5.2			
9/14/2016							9.4		
9/15/2016				6.1					6
9/19/2016								1.2	
11/1/2016					3.9			1.3	4.9
11/2/2016				6.3					
11/4/2016						5	13		
11/14/2016		150							
11/15/2016	94								
11/28/2016			36						
12/15/2016							1.8		
1/10/2017				5.9					
1/11/2017					3.7				4.5
1/16/2017						7.9	11	<1.5	
2/21/2017								1.4	
2/22/2017			43						
2/24/2017		120							
2/27/2017	84								
3/1/2017									
3/2/2017					4.6	7.4			4.4
3/3/2017							8.8		
3/8/2017				7					
4/26/2017				7				1.4	5.1
4/27/2017					5.2	7.4			
4/28/2017							10		
5/8/2017		120	60						
5/9/2017	91								
5/26/2017							12		
6/27/2017					5.9	6.4			
6/28/2017							11		5.4
6/30/2017				6.5				<1.5	
7/11/2017		110							
7/13/2017	88								
7/17/2017			63						
10/3/2017					6.6	5.9	7.9		
10/4/2017								1.4	6.2
10/5/2017				7.9					
10/10/2017		93							
10/11/2017	86								
10/16/2017			62						
2/19/2018			64.6						
4/2/2018		88.8							
4/4/2018	76.5								
6/5/2018					6.4				
6/6/2018						4.4			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/7/2018							8.8		6.7
6/8/2018				6.4					
6/11/2018								1.1	
8/6/2018			42.1						
9/19/2018		75							
9/20/2018	84.1								
10/1/2018				6.8	5.6	4	9.1		7.1
10/2/2018								1	
2/25/2019			42.1						
3/27/2019		65.9							
3/28/2019	82.8				8	4.3			
3/29/2019				7.3			9		
4/1/2019								0.96 (J)	7.2
6/12/2019			83.4						
9/24/2019					5.3	4.3	9.1		
9/25/2019				6.6				0.81 (J)	7
9/26/2019	80								
10/8/2019		52.3	128						
3/17/2020		71.6	98.6						
3/18/2020				8.1		5.3			
3/19/2020					10		12.4	1.6	9
3/25/2020	76.1								
9/22/2020		51.5	145						
9/23/2020					8.1	3.4	11.8		6.9
9/24/2020	77							0.69 (J)	
9/25/2020				6.1					
3/1/2021		51.6						0.88 (J)	
3/2/2021			156	6					
3/3/2021					9	4.4	10.6		7
3/4/2021	75.1								
8/19/2021		52.6		6.7	8.9	4.9		1	7.5
8/20/2021			121						
8/27/2021							16.7		
9/1/2021	79.8								
2/8/2022	73.9	50.9	107						
2/9/2022					9.3	5.1	18		7.2
2/10/2022				6.2					
2/11/2022								2.8	
8/30/2022			101		10.2		20.1		
8/31/2022	71	48		5.8		4.8		1.1	6.9
2/7/2023			82.4		10.6	6.6	17.8		
2/8/2023		50.5		6.1				0.96 (J)	7.5
2/9/2023	71.1								
8/15/2023		47.7	74.2	6	9.6	4.6	17.2		6.8
8/16/2023	63.8							0.9 (J)	
2/20/2024		51	75		9.7	4.3	23.1	0.69 (J)	7
2/21/2024	65.4								
2/23/2024				7.1					
8/20/2024		53.9		7.6	12.2	4.9	21.3	0.74 (J)	7.7
8/22/2024	66.4								

Time Series

Constituent: Sulfate (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/1/2016	12
6/2/2016	
7/25/2016	8.4
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	8.6
9/15/2016	
9/19/2016	
11/1/2016	8.9
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	8.6
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	9.3
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	11
4/27/2017	
4/28/2017	
5/8/2017	
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	12
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/3/2017	
10/4/2017	12
10/5/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
4/2/2018	
4/4/2018	
6/5/2018	
6/6/2018	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/7/2018	
6/8/2018	9.6
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	9.1
10/2/2018	
2/25/2019	
3/27/2019	
3/28/2019	
3/29/2019	
4/1/2019	8.5
6/12/2019	
9/24/2019	
9/25/2019	13.8
9/26/2019	
10/8/2019	
3/17/2020	
3/18/2020	
3/19/2020	12.9
3/25/2020	
9/22/2020	
9/23/2020	16.8
9/24/2020	
9/25/2020	
3/1/2021	
3/2/2021	
3/3/2021	9.6
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	18.2
9/1/2021	
2/8/2022	
2/9/2022	16
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	13.9
2/7/2023	
2/8/2023	14.7
2/9/2023	
8/15/2023	
8/16/2023	20.3
2/20/2024	13.8
2/21/2024	
2/23/2024	
8/20/2024	13.7
8/22/2024	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50	PZ-54D
6/8/2016							<1		
8/1/2016							1.1		
9/2/2016			72						
9/20/2016							0.38 (J)		
11/8/2016							0.39 (J)		
11/14/2016			110						
1/17/2017							<1		
2/28/2017			110						
3/8/2017							0.29 (J)		
5/2/2017							0.29 (J)		
5/9/2017			130						
7/7/2017							0.37 (J)		
7/13/2017			140						
9/22/2017			160						
9/29/2017			160						
10/5/2017							<1		
10/6/2017			160						
10/11/2017			150						
10/12/2017		650							
11/21/2017		700							
1/11/2018		590							
2/20/2018		677							
4/3/2018		615							
6/12/2018							0.35 (J)		
6/13/2018			144						
6/29/2018		634							
8/6/2018		623							
9/24/2018		674							
9/26/2018			160				0.28 (J)		
10/16/2018	34.2								
4/4/2019			119				0.29 (J)		
9/26/2019	14.3		84.8				0.23 (J)		
3/25/2020	36.1		58.8						
3/26/2020							<1		
9/23/2020							<1		
9/24/2020	7.2								
9/25/2020		563							
10/7/2020			18.2						
3/3/2021							<1		
3/4/2021	8.8	485	6.3						
8/25/2021		472							
9/1/2021	38.7						<1		
9/3/2021			13.8	153					
2/10/2022	42.6	452				306	<1		
2/11/2022			16.4	115	209				
8/31/2022	67.9								
9/1/2022		490	28.2	381	280	346			
2/8/2023		449		177	279				
2/9/2023	84.6		50.8			370			
2/10/2023							0.5 (J)		
8/16/2023	107		93.9	210		309	<1		
8/17/2023		459			289			1140	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50	PZ-54D
12/20/2023								1180	
2/21/2024		462		222	309				
2/22/2024						309		1170	
2/23/2024	148		156				<1		
6/10/2024								1130	
6/12/2024									177
8/21/2024		441		320	305				
8/22/2024	109		191			309	<1		
8/23/2024								1130	
11/7/2024									174
11/26/2024								1010	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							<0.001	<0.001	
6/7/2016						<0.001			<0.001
7/27/2016						<0.001	<0.001	<0.001	<0.001
7/28/2016									
9/16/2016						<0.001		<0.001	
9/19/2016							<0.001		<0.001
11/2/2016									<0.001
11/3/2016						<0.001	<0.001	<0.001	
1/11/2017						<0.001	<0.001	<0.001	
1/13/2017									<0.001
3/1/2017							<0.001	<0.001	
3/2/2017						<0.001			
3/6/2017									<0.001
4/26/2017							<0.001	<0.001	<0.001
5/2/2017						<0.001			
6/28/2017							<0.001	<0.001	
6/29/2017						<0.001			<0.001
3/28/2018						<0.001	<0.001	<0.001	
3/29/2018									<0.001
9/25/2018									
3/5/2019						<0.001		<0.001	<0.001
3/6/2019							<0.001		
4/2/2019						<0.001			
4/3/2019							<0.001	<0.001	<0.001
9/24/2019									
9/25/2019						<0.001			<0.001
9/26/2019	<0.001						<0.001	<0.001	
2/11/2020						<0.001	<0.001	<0.001	
2/12/2020									<0.001
3/24/2020						<0.001	<0.001	<0.001	<0.001
3/25/2020	<0.001								
9/23/2020		<0.001		<0.001		<0.001	<0.001	<0.001	
9/24/2020	<0.001				<0.001				<0.001
2/9/2021	<0.001	<0.001		<0.001	<0.001		<0.001	<0.001	<0.001
2/9/2022						<0.001	<0.001	<0.001	<0.001
2/10/2022	<0.001	<0.001	<0.001	<0.001	<0.001				
8/30/2022						<0.001	<0.001	<0.001	
8/31/2022	<0.001								<0.001
9/1/2022		<0.001	<0.001	<0.001	<0.001				
2/7/2023						<0.001	<0.001	<0.001	<0.001
2/8/2023		<0.001		<0.001	<0.001				
2/9/2023	<0.001		<0.001						
8/15/2023						<0.001	<0.001	<0.001	<0.001
8/16/2023	<0.001		<0.001	<0.001	<0.001				
8/17/2023		<0.001							
2/20/2024						<0.001	<0.001		<0.001
2/21/2024			<0.001						
2/22/2024		<0.001		<0.001	<0.001				
2/23/2024	<0.001							<0.001	
8/20/2024						<0.001	<0.001		<0.001
8/21/2024		<0.001						<0.001	
8/22/2024	<0.001		<0.001						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
8/23/2024				<0.001	<0.001				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	<0.001
7/27/2016	
7/28/2016	<0.001
9/16/2016	
9/19/2016	<0.001
11/2/2016	
11/3/2016	<0.001
1/11/2017	
1/13/2017	<0.001
3/1/2017	
3/2/2017	
3/6/2017	<0.001
4/26/2017	<0.001
5/2/2017	
6/28/2017	
6/29/2017	<0.001
3/28/2018	
3/29/2018	<0.001
9/25/2018	<0.001
3/5/2019	<0.001
3/6/2019	
4/2/2019	<0.001
4/3/2019	
9/24/2019	<0.001
9/25/2019	
9/26/2019	
2/11/2020	
2/12/2020	<0.001
3/24/2020	<0.001
3/25/2020	
9/23/2020	
9/24/2020	<0.001
2/9/2021	<0.001
2/9/2022	<0.001
2/10/2022	
8/30/2022	<0.001
8/31/2022	
9/1/2022	
2/7/2023	<0.001
2/8/2023	
2/9/2023	
8/15/2023	<0.001
8/16/2023	
8/17/2023	
2/20/2024	<0.001
2/21/2024	
2/22/2024	
2/23/2024	
8/20/2024	<0.001
8/21/2024	
8/22/2024	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

YGWA-21I (bg)

8/23/2024

Time Series

Constituent: Thallium (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			<0.001	<0.001	<0.001				
6/7/2016						<0.001			
7/26/2016			<0.001	<0.001	<0.001				
7/28/2016						<0.001			
8/30/2016									<0.001
8/31/2016									
9/14/2016			<0.001	<0.001	<0.001				
9/20/2016						<0.001			
11/2/2016			<0.001	<0.001					
11/4/2016					<0.001				
11/8/2016						<0.001			
11/16/2016									<0.001
1/12/2017				<0.001	<0.001				
1/13/2017			<0.001						
1/16/2017						<0.001			
2/24/2017									
2/27/2017									<0.001
3/6/2017			<0.001						
3/7/2017				<0.001	<0.001				
3/9/2017						<0.001			
5/1/2017			<0.001	<0.001					
5/2/2017					<0.001	<0.001			
5/10/2017									<0.001
6/27/2017				<0.001	<0.001				
6/29/2017			<0.001						
7/10/2017						<0.001			
7/11/2017									<0.001
10/11/2017	<0.001								
10/12/2017		<0.001					<0.001	<0.001	<0.001
11/20/2017	<0.001	<0.001					<0.001		
11/21/2017								<0.001	
1/10/2018		<0.001							
1/11/2018	<0.001							<0.001	
1/12/2018							<0.001		
2/19/2018		<0.001						<0.001	
2/20/2018	<0.001						<0.001		
3/29/2018			<0.001	<0.001	<0.001				
3/30/2018						<0.001			
4/3/2018	<0.001	<0.001					<0.001	<0.001	
4/4/2018									<0.001
6/27/2018								<0.001	
6/28/2018	<0.001	<0.001					<0.001		
8/7/2018	<0.001	<0.001					<0.001	<0.001	
9/20/2018									<0.001
9/24/2018	<0.001	<0.001					<0.001	<0.001	
3/4/2019			<0.001	<0.001	<0.001				
3/6/2019						<0.001			
4/3/2019			<0.001	<0.001	<0.001				
4/4/2019						<0.001			
8/21/2019	<0.001	<0.001							
8/22/2019							<0.001	<0.001	<0.001
9/24/2019				<0.001	<0.001				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
9/25/2019			<0.001						
9/27/2019						<0.001			
2/12/2020	<0.001	<0.001	<0.001	<0.001	<0.001				
3/24/2020		<0.001		<0.001	<0.001				
3/25/2020	<0.001		<0.001				<0.001	<0.001	<0.001
3/26/2020						<0.001			
9/22/2020			<0.001	<0.001	<0.001				
9/24/2020	<0.001	<0.001				<0.001			<0.001
9/25/2020							<0.001	<0.001	
2/8/2021				<0.001	<0.001				
2/9/2021			<0.001			<0.001	<0.001		
2/10/2021	<0.001	<0.001						<0.001	<0.001
2/8/2022	<0.001	<0.001						<0.001	
2/10/2022				<0.001	<0.001	<0.001	<0.001		<0.001
2/11/2022			<0.001						
8/30/2022				<0.001	<0.001				
8/31/2022	<0.001	<0.001	<0.001						
9/1/2022						<0.001	<0.001	<0.001	<0.001
2/7/2023	<0.001			<0.001					
2/8/2023		<0.001				<0.001	<0.001	<0.001	<0.001
2/9/2023			<0.001		<0.001				
8/15/2023	<0.001	<0.001	<0.001	<0.001	<0.001				
8/16/2023						<0.001	<0.001	<0.001	<0.001
2/20/2024	<0.001	<0.001	<0.001	<0.001	<0.001				
2/21/2024						<0.001			
2/22/2024							<0.001	<0.001	<0.001
8/20/2024			<0.001	<0.001	<0.001				
8/21/2024	<0.001	<0.001				<0.001			
8/22/2024									<0.001
8/23/2024							<0.001	<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	<0.001
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	<0.001
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	<0.001
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	<0.001
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	<0.001
10/11/2017	
10/12/2017	<0.001
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
3/29/2018	
3/30/2018	
4/3/2018	
4/4/2018	<0.001
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	<0.001
9/24/2018	
3/4/2019	
3/6/2019	
4/3/2019	
4/4/2019	
8/21/2019	<0.001
8/22/2019	
9/24/2019	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
9/25/2019	
9/27/2019	
2/12/2020	
3/24/2020	
3/25/2020	<0.001
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	<0.001
2/8/2021	
2/9/2021	<0.001
2/10/2021	
2/8/2022	<0.001
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	<0.001
2/7/2023	
2/8/2023	<0.001
2/9/2023	
8/15/2023	
8/16/2023	<0.001
2/20/2024	
2/21/2024	
2/22/2024	<0.001
8/20/2024	
8/21/2024	
8/22/2024	<0.001
8/23/2024	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/1/2007			<0.001						
9/11/2007			<0.001						
3/20/2008			<0.001						
8/27/2008			<0.001						
3/3/2009			<0.001						
11/18/2009			<0.001						
3/3/2010			<0.001						
9/8/2010			<0.001						
3/10/2011			<0.001						
9/8/2011			<0.001						
3/5/2012			<0.001						
9/10/2012			<0.001						
2/6/2013			<0.001						
8/12/2013			<0.001						
2/5/2014			<0.001						
8/5/2014			<0.001						
2/4/2015			<0.001						
2/16/2016			<0.001						
6/1/2016					<0.001	<0.001			
6/2/2016				<0.001				<0.001	<0.001
7/25/2016						<0.001		<0.001	
7/26/2016				<0.001	<0.001				0.0001 (J)
8/30/2016		<0.001							
8/31/2016			<0.001						
9/1/2016	<0.001								
9/13/2016					<0.001	<0.001			
9/14/2016							<0.001		
9/15/2016				<0.001					<0.001
9/19/2016								<0.001	
11/1/2016					<0.001			<0.001	<0.001
11/2/2016				<0.001					
11/4/2016						<0.001	<0.001		
11/14/2016		<0.001							
11/15/2016	<0.001								
11/28/2016			<0.001						
12/15/2016							<0.001		
1/10/2017				<0.001					
1/11/2017					<0.001				<0.001
1/16/2017						<0.001	<0.001	<0.001	
2/21/2017								<0.001	
2/22/2017			<0.001						
2/24/2017		<0.001							
2/27/2017	9E-05 (J)								
3/1/2017									
3/2/2017					<0.001	<0.001			<0.001
3/3/2017							<0.001		
3/8/2017				<0.001					
4/26/2017				<0.001				<0.001	<0.001
4/27/2017					<0.001	<0.001			
4/28/2017							<0.001		
5/8/2017		<0.001	6E-05 (J)						
5/9/2017	<0.001								

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
5/26/2017							<0.001		
6/27/2017					<0.001	<0.001			
6/28/2017							<0.001		<0.001
6/30/2017				<0.001				<0.001	
7/11/2017		<0.001							
7/13/2017	<0.001								
7/17/2017			6E-05 (J)						
10/10/2017		<0.001							
10/11/2017	<0.001								
10/16/2017			7E-05 (J)						
2/19/2018			<0.001						
3/27/2018				<0.001		<0.001		<0.001	
3/28/2018							<0.001		<0.001
3/29/2018					<0.001				
4/2/2018		<0.001							
4/4/2018	<0.001								
8/6/2018			<0.001						
9/19/2018		<0.001							
9/20/2018	<0.001								
2/25/2019			<0.001						
2/26/2019				<0.001				<0.001	
2/27/2019					<0.001	<0.001	<0.001		<0.001
6/12/2019			<0.001						
8/19/2019			5.5E-05 (J)						
8/20/2019		5.8E-05 (J)							
9/26/2019	<0.001								
10/8/2019		8.4E-05 (J)	<0.001						
2/10/2020					<0.001	5.5E-05 (J)			
2/11/2020							<0.001		
2/12/2020				8.9E-05 (J)				<0.001	<0.001
3/17/2020		<0.001	<0.001						
3/18/2020				<0.001		<0.001			
3/19/2020					<0.001		<0.001	<0.001	<0.001
3/25/2020	<0.001								
8/26/2020			<0.001						
8/27/2020		<0.001							
9/22/2020			<0.001						
9/23/2020					<0.001	<0.001	<0.001		<0.001
9/24/2020	<0.001							<0.001	
9/25/2020				<0.001					
2/9/2021	<0.001								
2/10/2021				<0.001			<0.001		<0.001
2/11/2021								<0.001	
2/12/2021					<0.001	<0.001			
3/2/2021			<0.001						
8/19/2021		<0.001							
8/20/2021			<0.001						
2/8/2022	<0.001	<0.001	<0.001						
2/9/2022					<0.001	<0.001	<0.001		<0.001
2/10/2022				<0.001					
2/11/2022								<0.001	
8/30/2022			<0.001		<0.001		<0.001		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
8/31/2022	<0.001	<0.001		<0.001		<0.001		<0.001	<0.001
2/7/2023			<0.001		<0.001	<0.001	<0.001		
2/8/2023		<0.001		<0.001				<0.001	<0.001
2/9/2023	<0.001								
8/15/2023		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001
8/16/2023	<0.001							<0.001	
2/20/2024		<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
2/21/2024	<0.001								
2/23/2024				<0.001					
8/20/2024		<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/22/2024	<0.001								

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/1/2007	
9/11/2007	
3/20/2008	
8/27/2008	
3/3/2009	
11/18/2009	
3/3/2010	
9/8/2010	
3/10/2011	
9/8/2011	
3/5/2012	
9/10/2012	
2/6/2013	
8/12/2013	
2/5/2014	
8/5/2014	
2/4/2015	
2/16/2016	
6/1/2016	<0.001
6/2/2016	
7/25/2016	<0.001
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	<0.001
9/15/2016	
9/19/2016	
11/1/2016	<0.001
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	<0.001
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	<0.001
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	<0.001
4/27/2017	
4/28/2017	
5/8/2017	
5/9/2017	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
5/26/2017	
6/27/2017	
6/28/2017	<0.001
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
3/27/2018	
3/28/2018	<0.001
3/29/2018	
4/2/2018	
4/4/2018	
8/6/2018	
9/19/2018	
9/20/2018	
2/25/2019	
2/26/2019	
2/27/2019	<0.001
6/12/2019	
8/19/2019	
8/20/2019	
9/26/2019	
10/8/2019	
2/10/2020	
2/11/2020	<0.001
2/12/2020	
3/17/2020	
3/18/2020	
3/19/2020	<0.001
3/25/2020	
8/26/2020	
8/27/2020	
9/22/2020	
9/23/2020	0.00016 (J)
9/24/2020	
9/25/2020	
2/9/2021	
2/10/2021	<0.001
2/11/2021	
2/12/2021	
3/2/2021	
8/19/2021	
8/20/2021	
2/8/2022	
2/9/2022	<0.001
2/10/2022	
2/11/2022	
8/30/2022	

Time Series

Constituent: Thallium (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
8/31/2022	<0.001
2/7/2023	
2/8/2023	<0.001
2/9/2023	
8/15/2023	
8/16/2023	<0.001
2/20/2024	<0.001
2/21/2024	
2/23/2024	
8/20/2024	<0.001
8/22/2024	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50	PZ-54D
6/8/2016							<0.001		
8/1/2016							<0.001		
9/2/2016			<0.001						
9/20/2016							<0.001		
11/8/2016							<0.001		
11/14/2016			<0.001						
1/17/2017							<0.001		
2/28/2017			<0.001						
3/8/2017							<0.001		
5/2/2017							<0.001		
5/9/2017			<0.001						
7/7/2017							<0.001		
7/13/2017			<0.001						
9/22/2017			<0.001						
9/29/2017			<0.001						
10/6/2017			<0.001						
10/12/2017		<0.001							
11/21/2017		<0.001							
1/11/2018		<0.001							
2/20/2018		<0.001							
3/30/2018			<0.001				<0.001		
4/3/2018		<0.001							
6/29/2018		<0.001							
8/6/2018		<0.001							
9/24/2018		<0.001							
3/5/2019							<0.001		
3/6/2019			<0.001						
4/4/2019			<0.001				<0.001		
9/26/2019	<0.001		<0.001				<0.001		
3/25/2020	<0.001		<0.001						
3/26/2020							<0.001		
9/23/2020							<0.001		
9/24/2020	<0.001								
9/25/2020		<0.001							
10/7/2020			<0.001						
2/9/2021		<0.001					<0.001		
2/10/2021	<0.001		<0.001						
2/10/2022	<0.001	<0.001				<0.001	<0.001		
2/11/2022			<0.001	<0.001	<0.001				
8/31/2022	<0.001								
9/1/2022		<0.001	<0.001	<0.001	<0.001	<0.001			
2/8/2023		<0.001		<0.001	<0.001				
2/9/2023	<0.001		<0.001			<0.001			
2/10/2023							<0.001		
8/16/2023	<0.001		<0.001	<0.001		<0.001	<0.001		
8/17/2023		<0.001			<0.001			<0.001	
12/20/2023								<0.001	
2/21/2024		<0.001		<0.001	<0.001				
2/22/2024						<0.001		<0.001	
2/23/2024	<0.001		<0.001				<0.001		
6/10/2024								<0.001	
6/12/2024									0.00038 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50	PZ-54D
8/21/2024		<0.001		<0.001	<0.001				
8/22/2024	<0.001		<0.001			<0.001	<0.001		
8/23/2024								<0.001	
11/7/2024									<0.001
11/26/2024								<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
6/6/2016							120	58	
6/7/2016						28			38
7/27/2016						74	94	35	74
7/28/2016									
9/16/2016						67		35	
9/19/2016							92		45
11/2/2016									53
11/3/2016						41	104	48	
1/11/2017						104	133	95	
1/13/2017									46
3/1/2017							119	79	
3/2/2017						77			
3/6/2017									164
4/26/2017							162	36	34
5/2/2017						142			
6/28/2017							98	45	
6/29/2017						53			68
10/3/2017									
10/4/2017						61		45	54
10/5/2017							104		
6/5/2018									
6/6/2018									79
6/7/2018							68		
6/11/2018						70		74	
9/25/2018						86	109	63	73
10/16/2018	209								
4/2/2019						72			
4/3/2019							89	63	57
9/24/2019									
9/25/2019						81			75
9/26/2019							126	72	
3/24/2020						71	91	59	76
3/25/2020	139								
9/23/2020		62		329		99	103	81	
9/24/2020	106				788				69
3/3/2021	121	40		245		57	95	37	53
3/4/2021					604				
8/25/2021				332					
8/26/2021					570			31	
8/27/2021						93	112		67
9/1/2021	219	60							
2/9/2022						81	103	60	72
2/10/2022	281	48	606	346	499				
8/30/2022						81	100	52	
8/31/2022	336								62
9/1/2022		52	632	358	662				
2/7/2023						78	96	55	89
2/8/2023		190		402	660				
2/9/2023	347		727						
8/15/2023						74	96	81	62
8/16/2023	363		587	416	716				
8/17/2023		55							

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)
2/20/2024						77	129		164
2/21/2024			753						
2/22/2024		55		424	681				
2/23/2024	454							52	
8/20/2024						86	128		75
8/21/2024		94						79	
8/22/2024	548		742						
8/23/2024				415	699				

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
6/6/2016	
6/7/2016	60
7/27/2016	
7/28/2016	81
9/16/2016	
9/19/2016	68
11/2/2016	
11/3/2016	61
1/11/2017	
1/13/2017	76
3/1/2017	
3/2/2017	
3/6/2017	167
4/26/2017	50
5/2/2017	
6/28/2017	
6/29/2017	94
10/3/2017	149
10/4/2017	
10/5/2017	
6/5/2018	109
6/6/2018	
6/7/2018	
6/11/2018	
9/25/2018	122
10/16/2018	
4/2/2019	134
4/3/2019	
9/24/2019	157
9/25/2019	
9/26/2019	
3/24/2020	117
3/25/2020	
9/23/2020	
9/24/2020	113
3/3/2021	
3/4/2021	110
8/25/2021	
8/26/2021	
8/27/2021	
9/1/2021	137
2/9/2022	131
2/10/2022	
8/30/2022	122
8/31/2022	
9/1/2022	
2/7/2023	163
2/8/2023	
2/9/2023	
8/15/2023	126
8/16/2023	
8/17/2023	

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-21I (bg)
2/20/2024	156
2/21/2024	
2/22/2024	
2/23/2024	
8/20/2024	143
8/21/2024	
8/22/2024	
8/23/2024	

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
6/2/2016			96	160	66				
6/7/2016						130			
7/26/2016			92	177	78				
7/28/2016						119			
8/30/2016									1650
8/31/2016									
9/14/2016			102	187	73				
9/20/2016						132			
11/2/2016			115	181					
11/4/2016					75				
11/8/2016						146			
11/16/2016									1420
1/12/2017				202	86				
1/13/2017			67						
1/16/2017						194			
2/24/2017									
2/27/2017									1640
3/6/2017			159						
3/7/2017				257	108				
3/9/2017						288			
5/1/2017			107	165					
5/2/2017					103	221			
5/10/2017									1630
6/27/2017				189	73				
6/29/2017			79						
7/10/2017						123			
7/11/2017									1800
10/3/2017				170	89				
10/5/2017			95						
10/11/2017	68					100			
10/12/2017		74					1360	636	1600
11/20/2017	139	179					1390		
11/21/2017								706	
1/10/2018		140							
1/11/2018	153							701	
1/12/2018							1400		
2/19/2018		119						630	
2/20/2018	87						1300		
4/3/2018	85	106					1390	660	
4/4/2018									1520
6/6/2018				151					
6/7/2018			90		142				
6/12/2018						115			
6/27/2018								575	
6/28/2018	88	112					1310		
8/7/2018	89	103					1340	574	
9/20/2018									1240
9/24/2018	82	107					1400	588	
9/26/2018			116	144	86				
9/27/2018						105			
3/26/2019		90							
3/27/2019	75						1190		1100

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWC-23S	YGWC-38	YGWC-41	YGWC-42
3/28/2019								372	
4/3/2019			111	142	83				
4/4/2019						85			
9/24/2019				129	79				
9/25/2019			117						
9/27/2019						96			
10/9/2019	119	98					1100	440	1170
3/24/2020		84		139	68				
3/25/2020	158		146				883	428	1200
3/26/2020						110			
9/22/2020			83	104	75				
9/24/2020	170	77				129			1060
9/25/2020							664	307	
3/2/2021				52	67				
3/3/2021			80						
3/4/2021	168	57				96	600	224	501
8/25/2021						141			886
8/26/2021	249		93	123	86		562	225	
9/3/2021		88							
9/27/2021									
2/8/2022	248	93						226	
2/10/2022				127	77	180	541		882
2/11/2022			102						
8/30/2022				148	86				
8/31/2022	242	92	92						
9/1/2022						191	499	205	934
2/7/2023	224			180					
2/8/2023		115				158	579	257	853
2/9/2023			124		59				
8/15/2023	225	83	99	219	76				
8/16/2023						170	460	266	904
2/20/2024	233	109	140	639 (o)	137				
2/21/2024						192			
2/22/2024							403	224	881
8/20/2024			128	212	108				
8/21/2024	235	94				193			
8/22/2024									830
8/23/2024							418	225	

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
6/2/2016	
6/7/2016	
7/26/2016	
7/28/2016	
8/30/2016	
8/31/2016	80
9/14/2016	
9/20/2016	
11/2/2016	
11/4/2016	
11/8/2016	
11/16/2016	112
1/12/2017	
1/13/2017	
1/16/2017	
2/24/2017	147
2/27/2017	
3/6/2017	
3/7/2017	
3/9/2017	
5/1/2017	
5/2/2017	
5/10/2017	203
6/27/2017	
6/29/2017	
7/10/2017	
7/11/2017	238
10/3/2017	
10/5/2017	
10/11/2017	
10/12/2017	287
11/20/2017	
11/21/2017	
1/10/2018	
1/11/2018	
1/12/2018	
2/19/2018	
2/20/2018	
4/3/2018	
4/4/2018	292
6/6/2018	
6/7/2018	
6/12/2018	
6/27/2018	
6/28/2018	
8/7/2018	
9/20/2018	434
9/24/2018	
9/26/2018	
9/27/2018	
3/26/2019	
3/27/2019	

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43
3/28/2019	323
4/3/2019	
4/4/2019	
9/24/2019	
9/25/2019	
9/27/2019	
10/9/2019	501
3/24/2020	
3/25/2020	352
3/26/2020	
9/22/2020	
9/24/2020	
9/25/2020	494
3/2/2021	
3/3/2021	
3/4/2021	592
8/25/2021	
8/26/2021	
9/3/2021	
9/27/2021	158
2/8/2022	294
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	
9/1/2022	366
2/7/2023	
2/8/2023	333
2/9/2023	
8/15/2023	
8/16/2023	356
2/20/2024	
2/21/2024	
2/22/2024	313
8/20/2024	
8/21/2024	
8/22/2024	412
8/23/2024	

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/1/2016					120	54			
6/2/2016				46				36	130
7/25/2016						48		50	
7/26/2016				54	94				141
8/30/2016		319							
8/31/2016			209						
9/1/2016	228								
9/13/2016					105	67			
9/14/2016							152		
9/15/2016				54					153
9/19/2016								35	
11/1/2016					44			<25	92
11/2/2016				71					
11/4/2016						60	148		
11/14/2016		280							
11/15/2016	211								
11/28/2016			102						
12/15/2016							191		
1/10/2017				45					
1/11/2017					107				159
1/16/2017						65	180	47	
2/21/2017								<25	
2/22/2017			164						
2/24/2017		162							
2/27/2017	382								
3/1/2017									
3/2/2017					98	61			117
3/3/2017							156		
3/8/2017				178					
4/26/2017				52				55	181
4/27/2017					116	31			
4/28/2017							130		
5/8/2017		194	145						
5/9/2017	154								
5/26/2017							223		
6/27/2017					89	42			
6/28/2017							166		169
6/30/2017				45				42	
7/11/2017		193							
7/13/2017	192								
7/17/2017			185						
10/3/2017					119	58	153		
10/4/2017								31	141
10/5/2017				40					
10/10/2017		175							
10/11/2017	177								
10/16/2017			218						
2/19/2018			173						
4/2/2018		192							
4/4/2018	174								
6/5/2018					127				
6/6/2018						96			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	YGWA-47 (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/7/2018							146		95
6/8/2018				114					
6/11/2018								59	
8/6/2018			158						
9/19/2018		186							
9/20/2018	186								
10/1/2018				50	117	60	155		165
10/2/2018								57	
2/25/2019			92						
3/27/2019		170							
3/28/2019	164				87	87			
3/29/2019				63			150		
4/1/2019								54	149
6/12/2019			226						
9/24/2019					124	54	146		
9/25/2019				64				51	157
9/26/2019	192								
10/8/2019		172	276						
3/17/2020		165	185						
3/18/2020				57		35			
3/19/2020					116		148	47	146
3/25/2020	130								
9/22/2020		141	281						
9/23/2020					108	15	161		157
9/24/2020	187							51	
9/25/2020				54					
3/1/2021		145						23	
3/2/2021			296	67					
3/3/2021					99	39	138		137
3/4/2021	145								
8/19/2021		134		54	105	44		50	144
8/20/2021			254						
8/27/2021							150		
9/1/2021	163								
2/8/2022	164	151	283						
2/9/2022					105	57	156		154
2/10/2022				56					
2/11/2022								66	
8/30/2022			244		116		153		
8/31/2022	207	116		51		46		33	141
2/7/2023			207		131	121	159		
2/8/2023		141		56				43	144
2/9/2023	145								
8/15/2023		186	230	69	121	65	157		231
8/16/2023	159							48	
2/20/2024		159	214		130	59	159	55	294
2/21/2024	173								
2/23/2024				64					
8/20/2024		155		81	140	67	184	69	164
8/22/2024	159								

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/1/2016	150
6/2/2016	
7/25/2016	135
7/26/2016	
8/30/2016	
8/31/2016	
9/1/2016	
9/13/2016	
9/14/2016	127
9/15/2016	
9/19/2016	
11/1/2016	75
11/2/2016	
11/4/2016	
11/14/2016	
11/15/2016	
11/28/2016	
12/15/2016	
1/10/2017	
1/11/2017	148
1/16/2017	
2/21/2017	
2/22/2017	
2/24/2017	
2/27/2017	
3/1/2017	182
3/2/2017	
3/3/2017	
3/8/2017	
4/26/2017	92
4/27/2017	
4/28/2017	
5/8/2017	
5/9/2017	
5/26/2017	
6/27/2017	
6/28/2017	126
6/30/2017	
7/11/2017	
7/13/2017	
7/17/2017	
10/3/2017	
10/4/2017	147
10/5/2017	
10/10/2017	
10/11/2017	
10/16/2017	
2/19/2018	
4/2/2018	
4/4/2018	
6/5/2018	
6/6/2018	

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)
6/7/2018	
6/8/2018	158
6/11/2018	
8/6/2018	
9/19/2018	
9/20/2018	
10/1/2018	138
10/2/2018	
2/25/2019	
3/27/2019	
3/28/2019	
3/29/2019	
4/1/2019	19 (J)
6/12/2019	
9/24/2019	
9/25/2019	159
9/26/2019	
10/8/2019	
3/17/2020	
3/18/2020	
3/19/2020	148
3/25/2020	
9/22/2020	
9/23/2020	155
9/24/2020	
9/25/2020	
3/1/2021	
3/2/2021	
3/3/2021	111
3/4/2021	
8/19/2021	
8/20/2021	
8/27/2021	155
9/1/2021	
2/8/2022	
2/9/2022	145
2/10/2022	
2/11/2022	
8/30/2022	
8/31/2022	137
2/7/2023	
2/8/2023	145
2/9/2023	
8/15/2023	
8/16/2023	148
2/20/2024	220
2/21/2024	
2/23/2024	
8/20/2024	179
8/22/2024	

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50	PZ-54D
6/8/2016							66		
8/1/2016							56		
9/2/2016			243						
9/20/2016							53		
11/8/2016							58		
11/14/2016			272						
1/17/2017							56		
2/28/2017			306						
3/8/2017							192		
5/2/2017							113		
5/9/2017			303						
7/7/2017							46		
7/13/2017			282						
9/22/2017			309						
9/29/2017			273						
10/5/2017							48		
10/6/2017			287						
10/11/2017			264						
10/12/2017		1060							
11/21/2017		1100							
1/11/2018		1020							
2/20/2018		1050							
4/3/2018		1080							
6/12/2018							79		
6/13/2018			292						
6/29/2018		979							
8/6/2018		1020							
9/24/2018		1090							
9/26/2018			277				59		
10/16/2018	123								
4/4/2019			240				63		
9/26/2019			198				81		
3/25/2020	84		164						
3/26/2020							67		
9/23/2020							87		
9/24/2020	100								
9/25/2020		878							
10/7/2020			137						
3/3/2021							70		
3/4/2021	59	856	69						
8/25/2021		876							
9/1/2021	128						96		
9/3/2021			89	374					
2/10/2022	130	798				574	78		
2/11/2022			81	382	456				
8/31/2022	173								
9/1/2022		908	108	916	544	622			
2/8/2023		822		477	542				
2/9/2023	196		116			582			
2/10/2023							66		
8/16/2023	256		234	505		612	68		
8/17/2023		938			600			2010	

Time Series

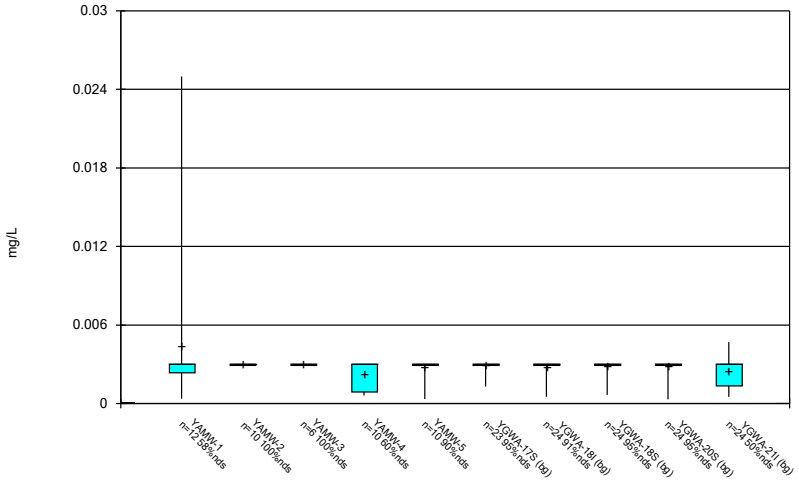
Constituent: Total Dissolved Solids (mg/L) Analysis Run 1/2/2025 12:03 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51	YGWC-24SB	YGWC-50	PZ-54D
12/20/2023								1930	
2/21/2024		834		548	557				
2/22/2024						556		1930	
2/23/2024	299		308				75		
6/10/2024								2030	
6/12/2024									775
8/21/2024		834		728	599				
8/22/2024	267		783			601	82		
8/23/2024								2050	
11/7/2024									643
11/26/2024								2010	

FIGURE B.

Box & Whiskers Plot



Constituent: Antimony Analysis Run 1/2/2025 12:08 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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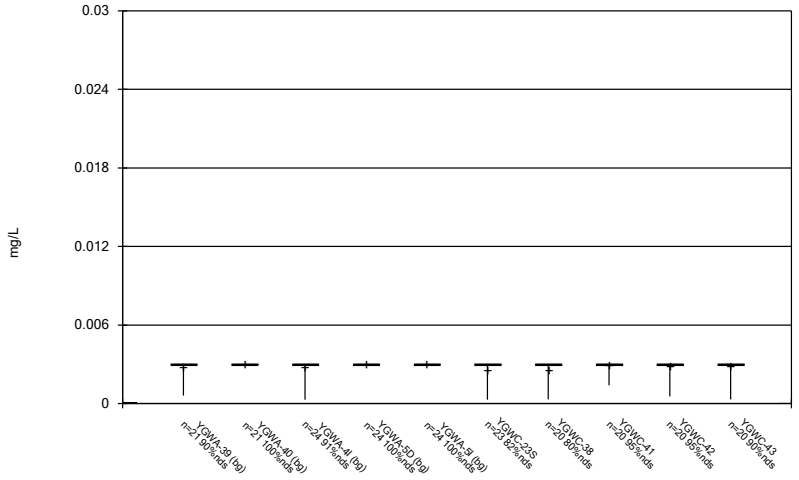
Box & Whiskers Plot



Constituent: Antimony Analysis Run 1/2/2025 12:08 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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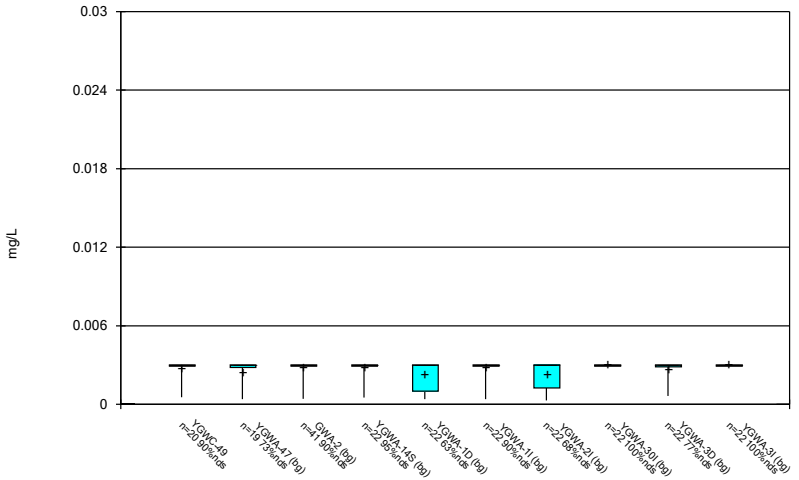
Box & Whiskers Plot



Constituent: Antimony Analysis Run 1/2/2025 12:08 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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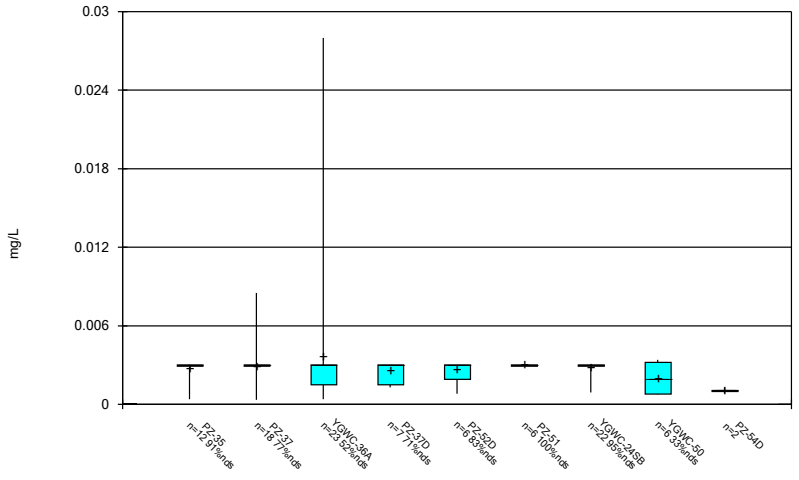
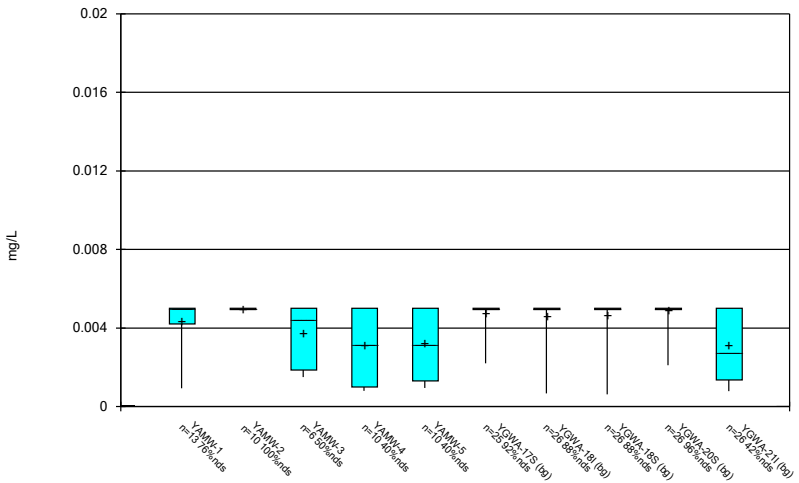
Box & Whiskers Plot



Constituent: Antimony Analysis Run 1/2/2025 12:08 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



Constituent: Arsenic Analysis Run 1/2/2025 12:08 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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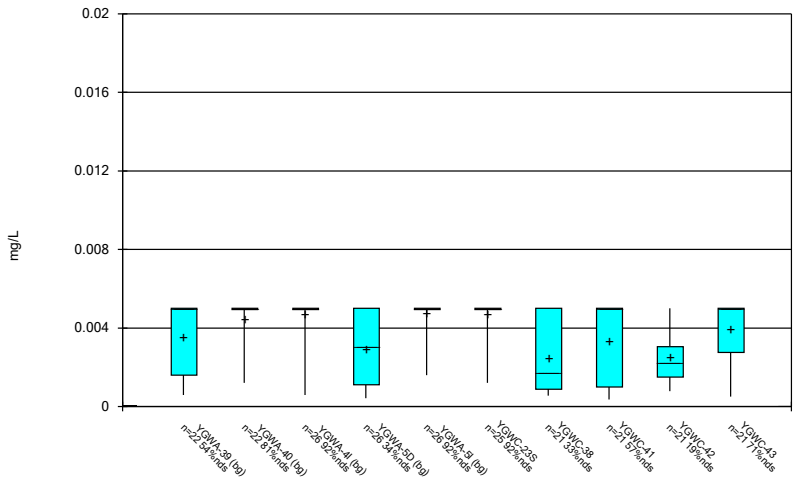
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 1/2/2025 12:08 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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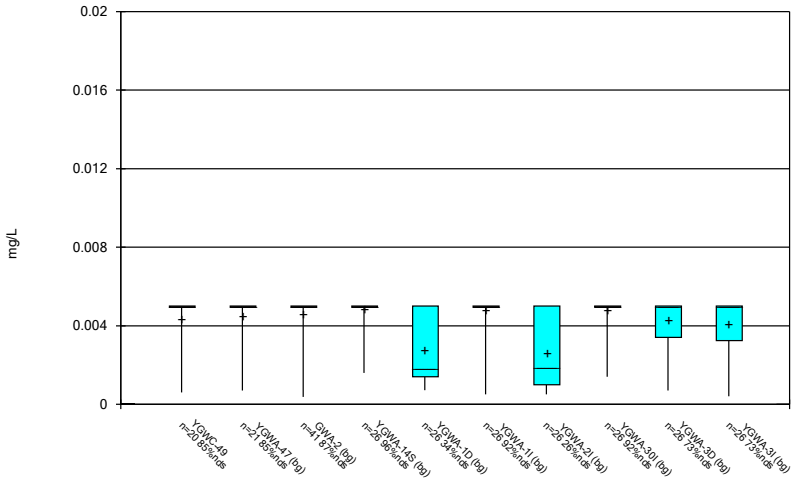
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 1/2/2025 12:08 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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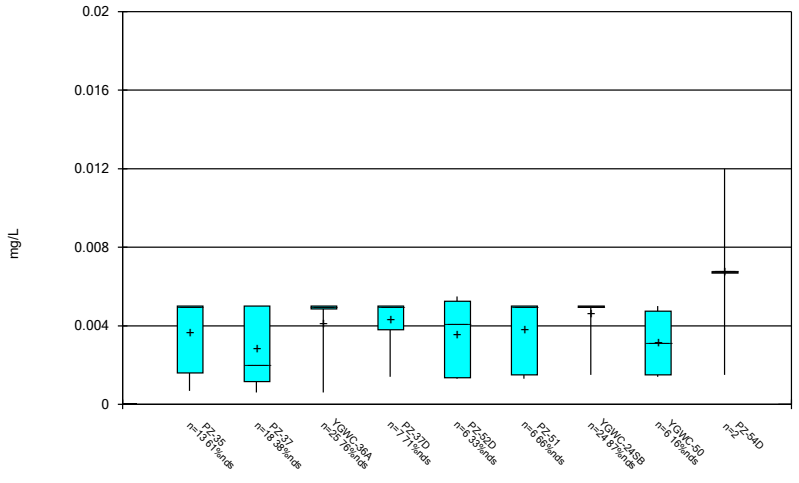
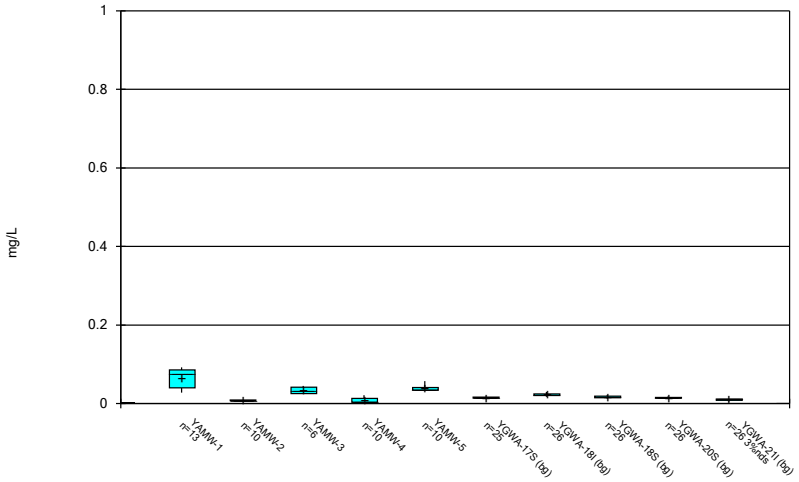
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 1/2/2025 12:08 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



Constituent: Barium Analysis Run 1/2/2025 12:08 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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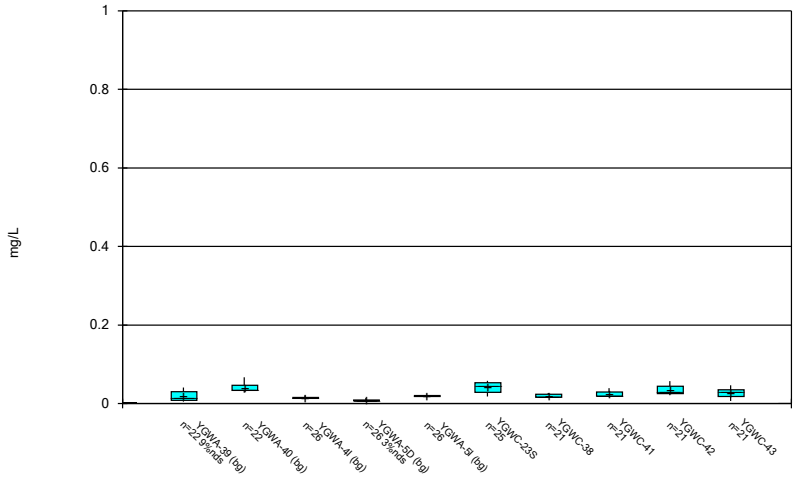
Box & Whiskers Plot



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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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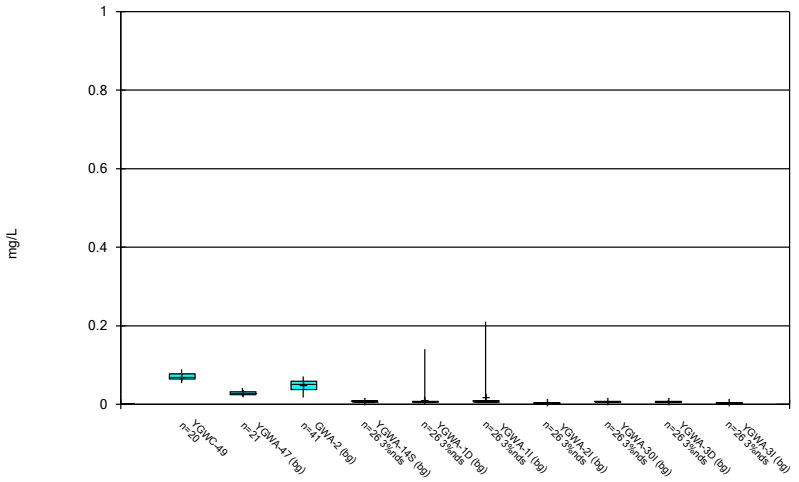
Box & Whiskers Plot



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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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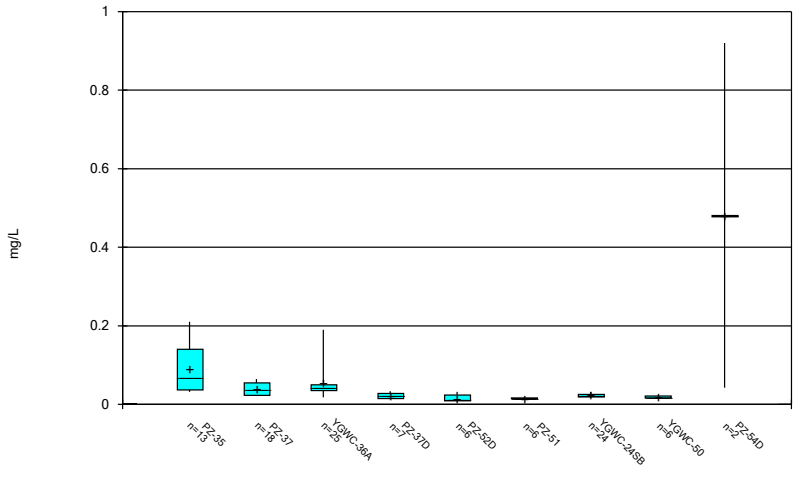
Box & Whiskers Plot



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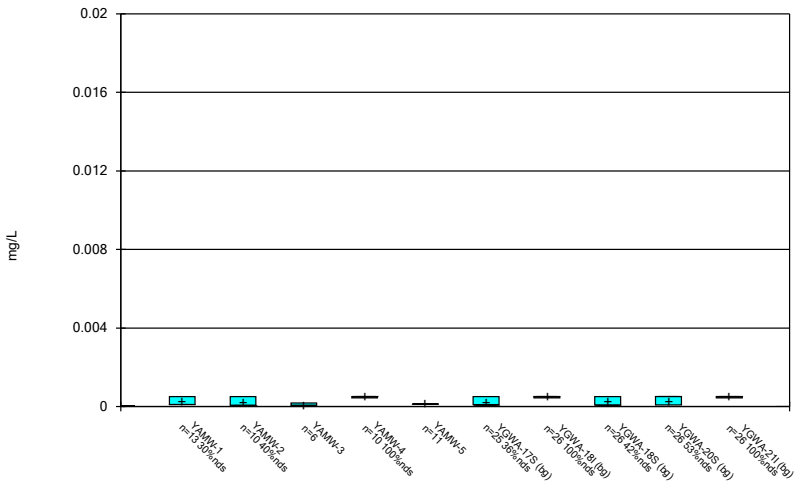
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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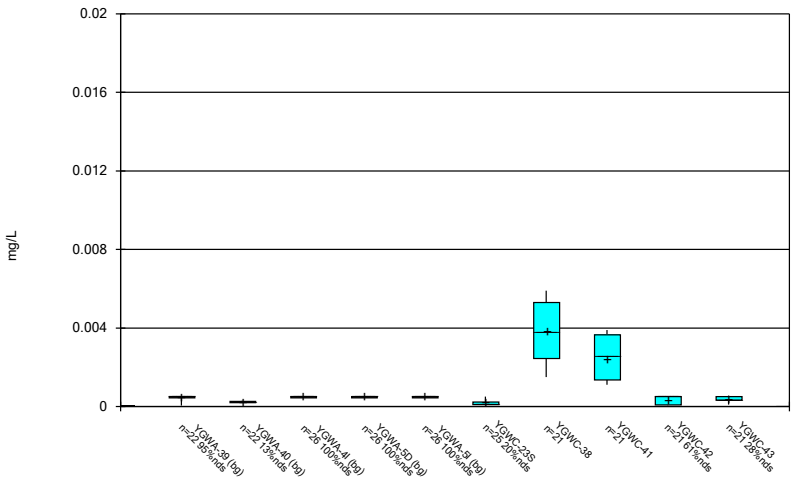
Box & Whiskers Plot



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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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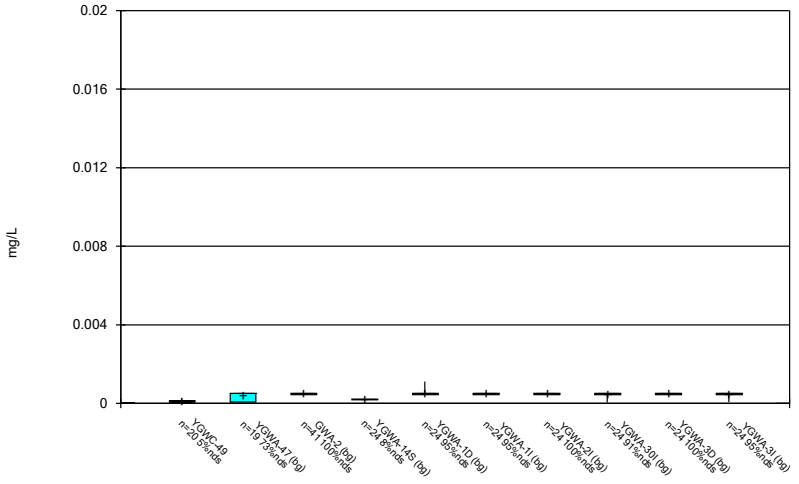
Box & Whiskers Plot



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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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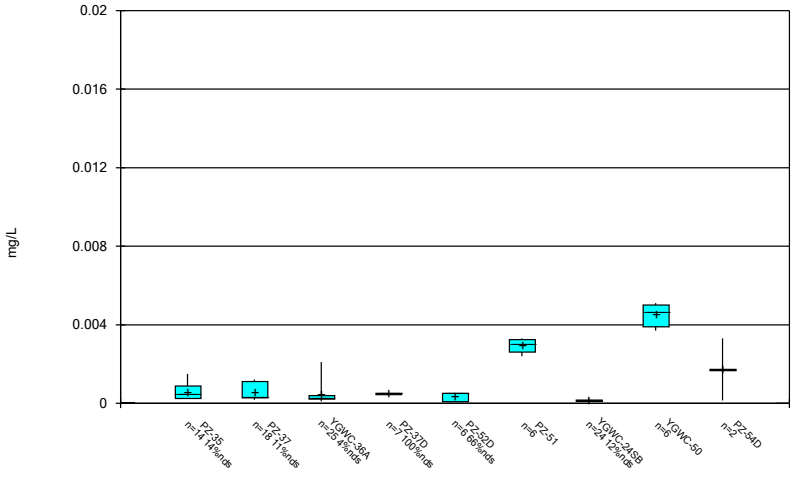
Box & Whiskers Plot



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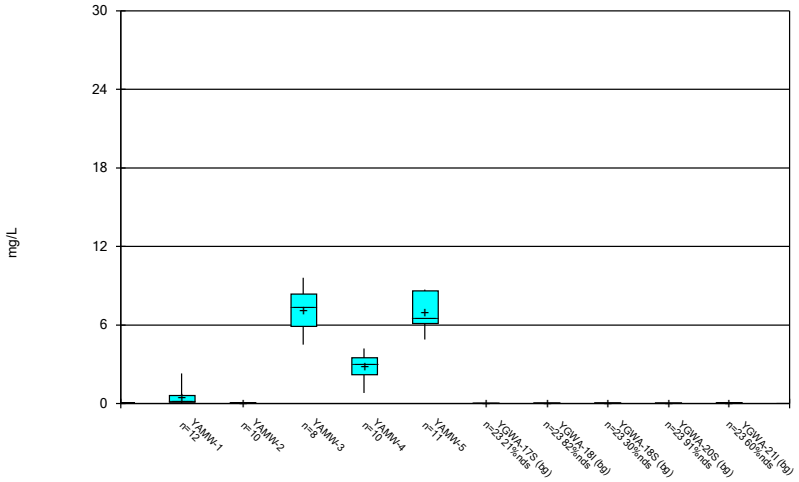

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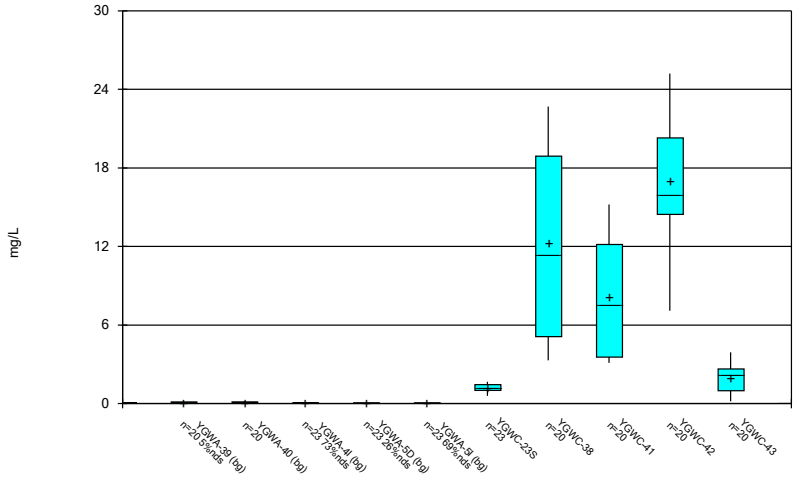
Box & Whiskers Plot



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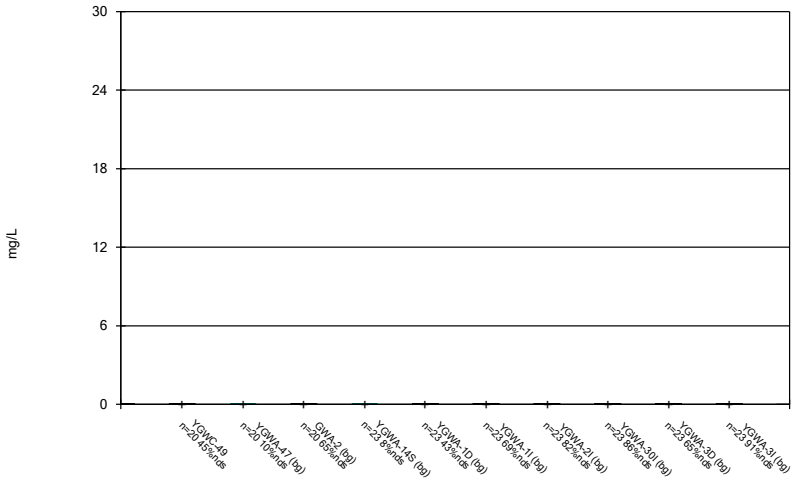
Box & Whiskers Plot



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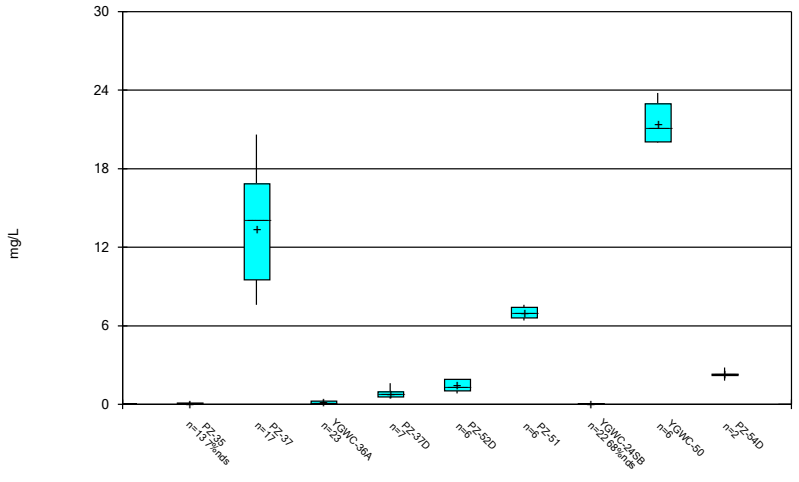
Box & Whiskers Plot



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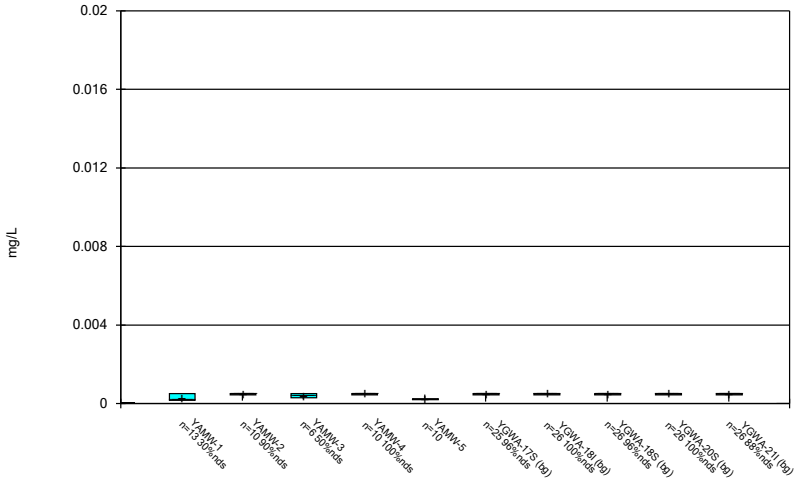
Box & Whiskers Plot



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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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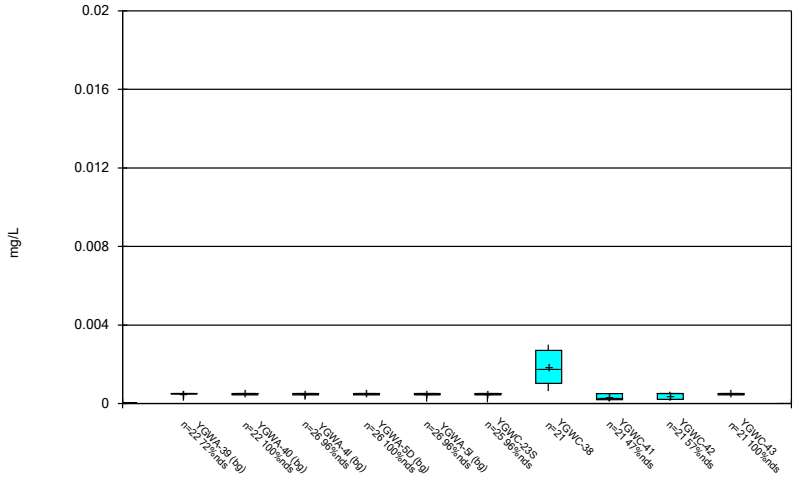
Box & Whiskers Plot



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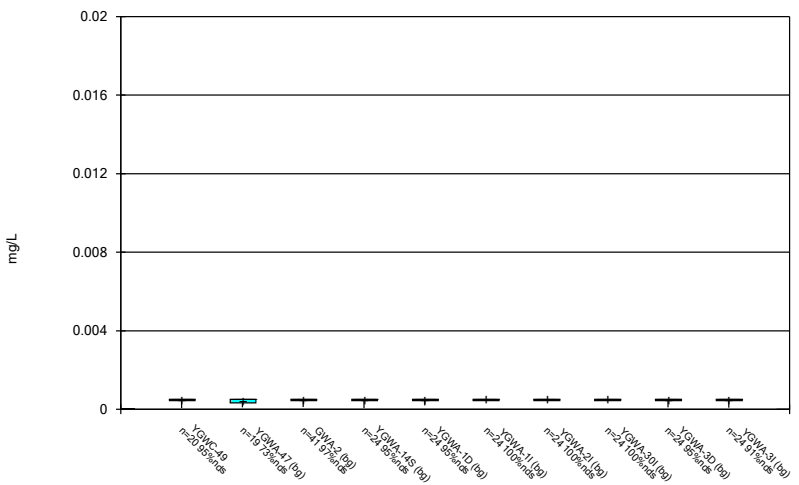
Box & Whiskers Plot



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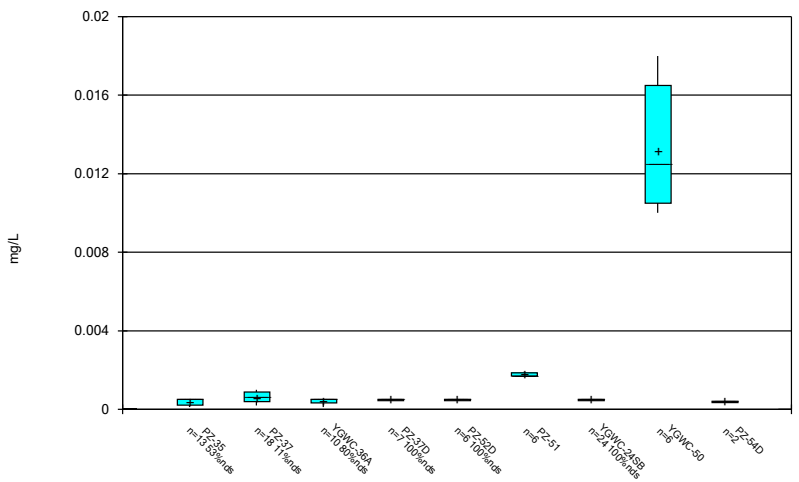

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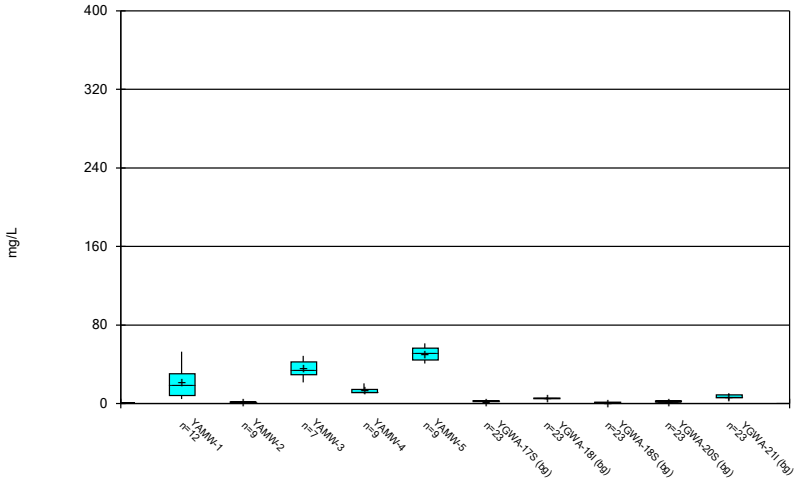

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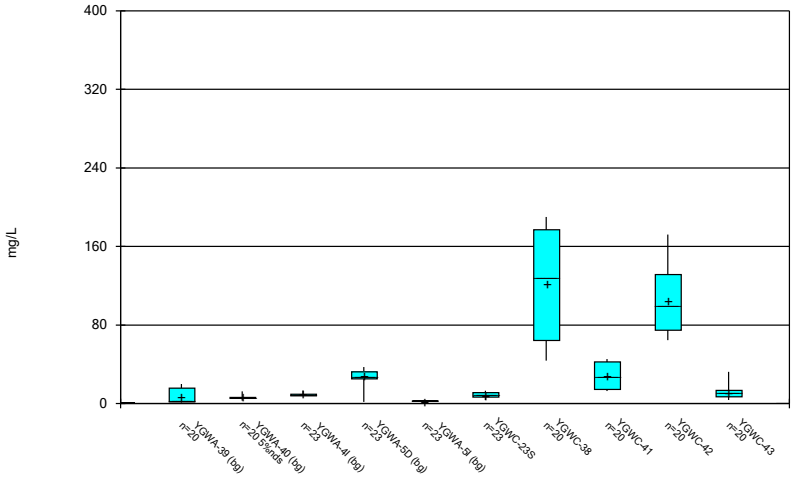

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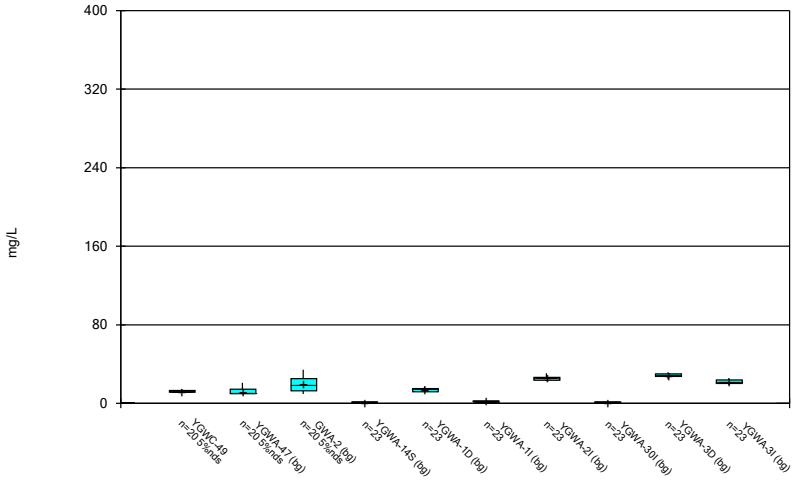
Box & Whiskers Plot



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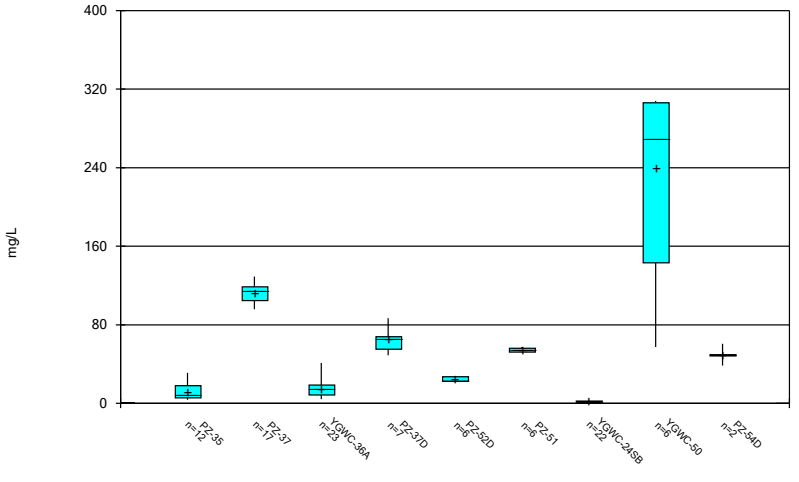

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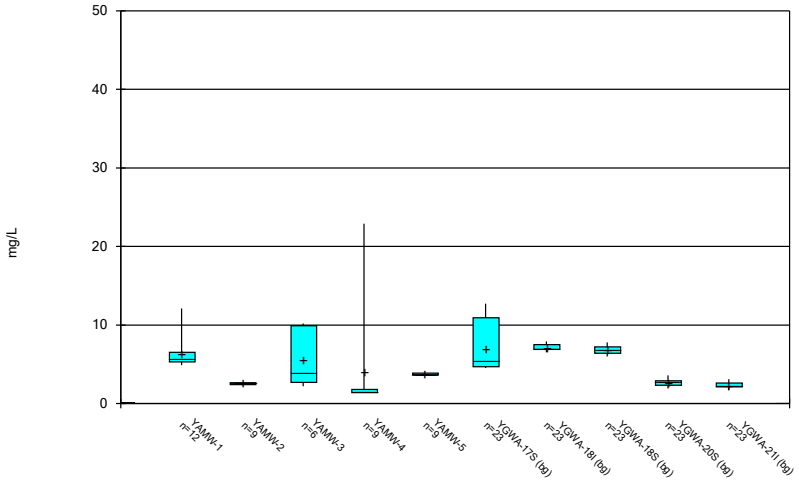
Box & Whiskers Plot



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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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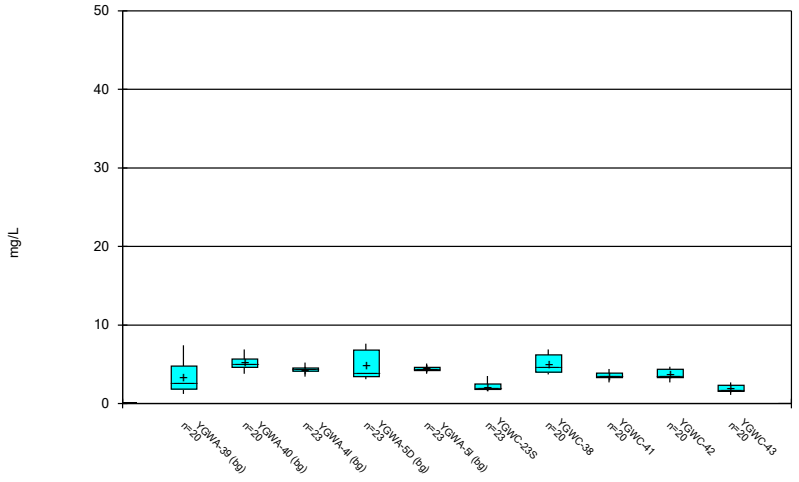
Box & Whiskers Plot



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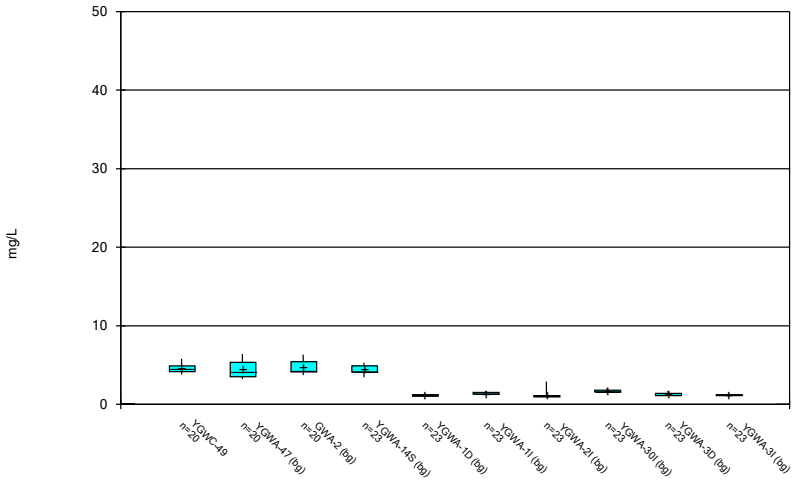

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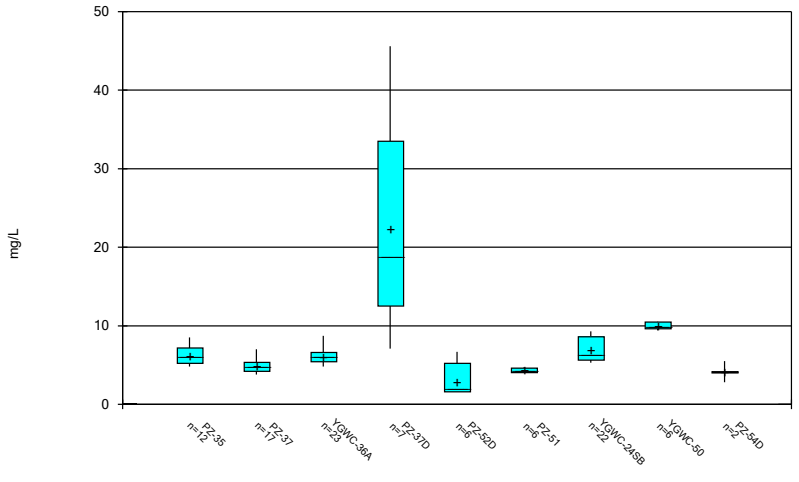
Box & Whiskers Plot



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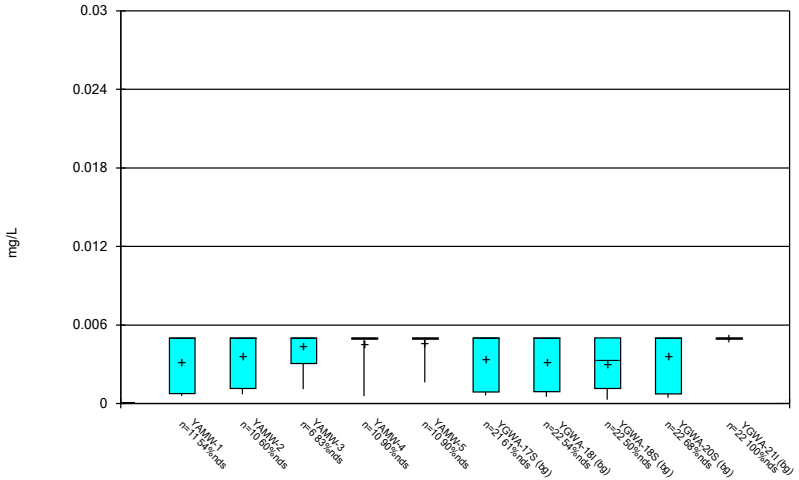
Box & Whiskers Plot



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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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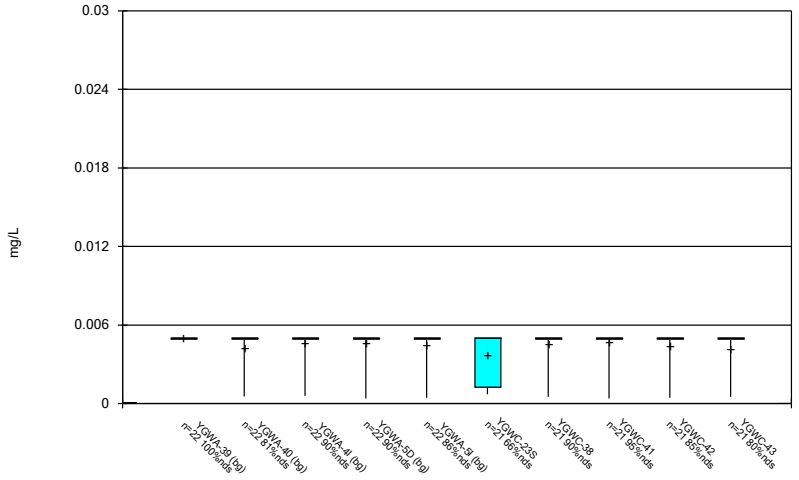
Box & Whiskers Plot



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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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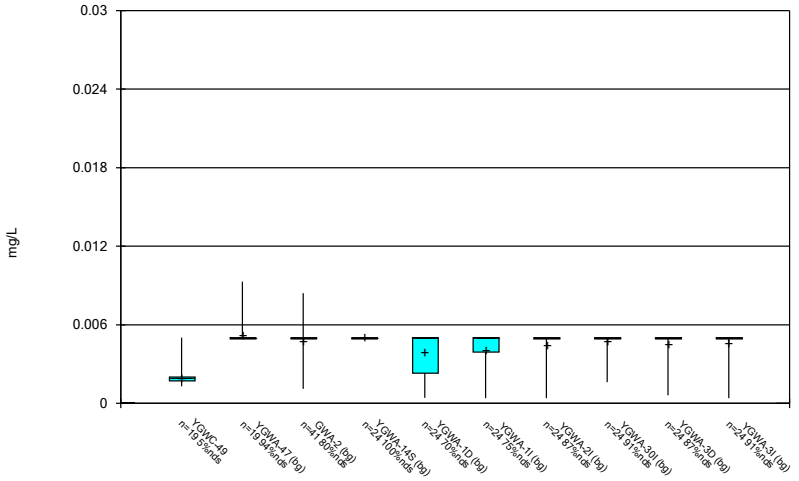
Box & Whiskers Plot



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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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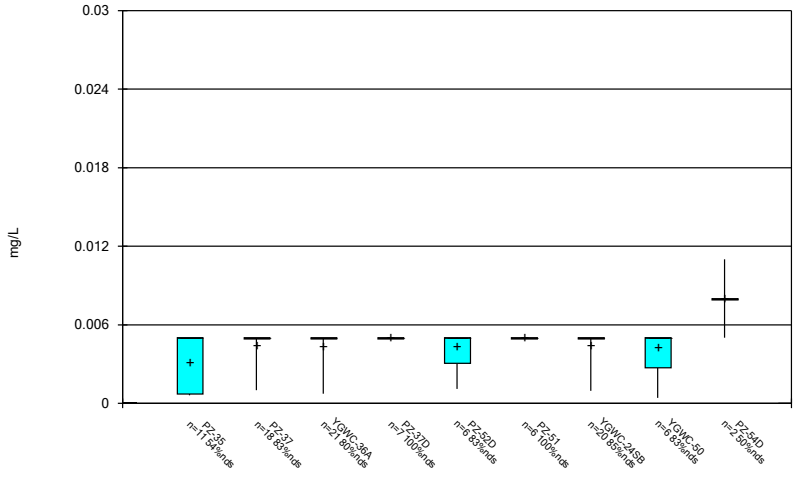

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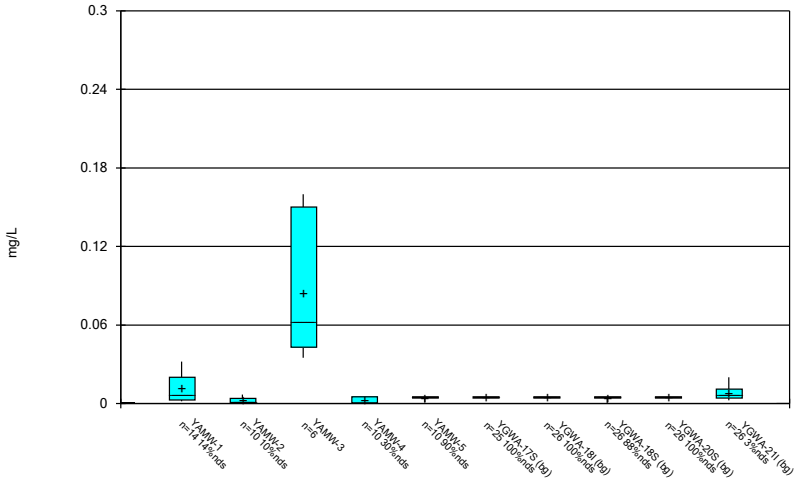
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



Constituent: Cobalt Analysis Run 1/2/2025 12:09 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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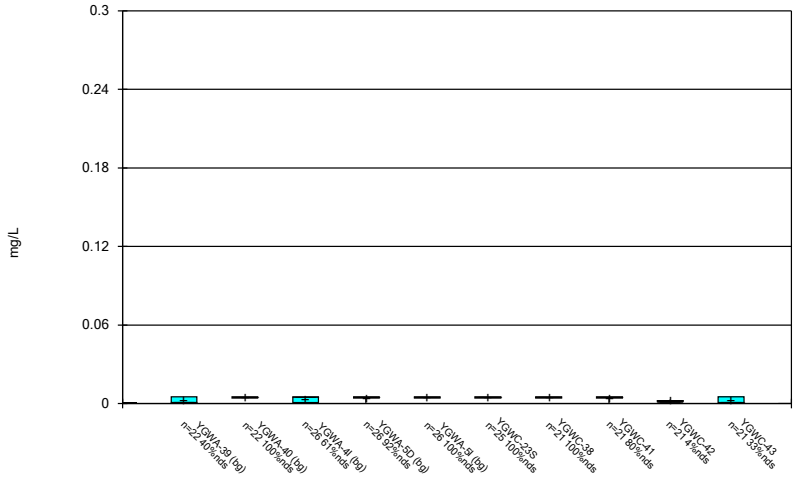
Box & Whiskers Plot



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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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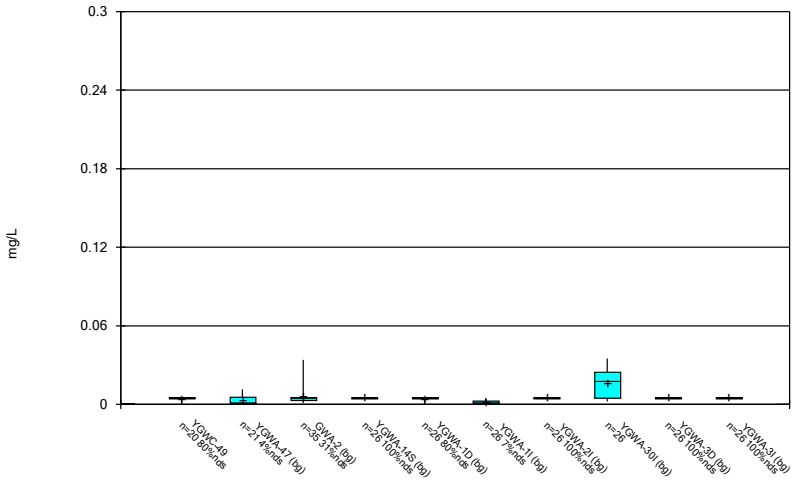
Box & Whiskers Plot



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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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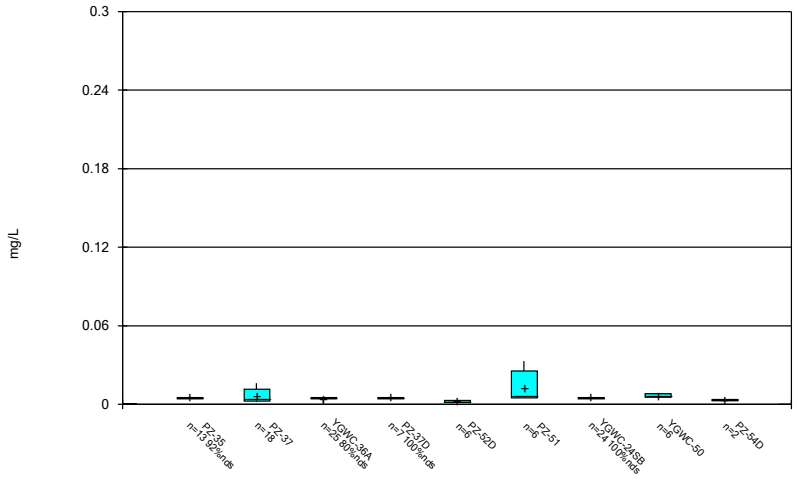
Box & Whiskers Plot



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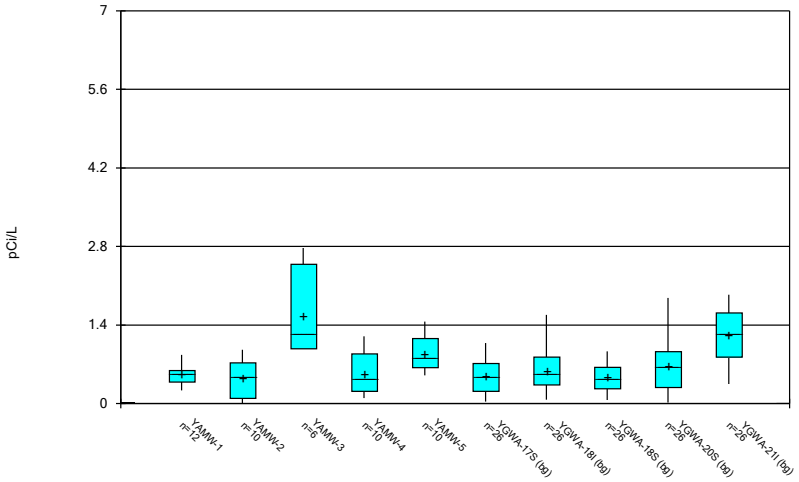
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 1/2/2025 12:09 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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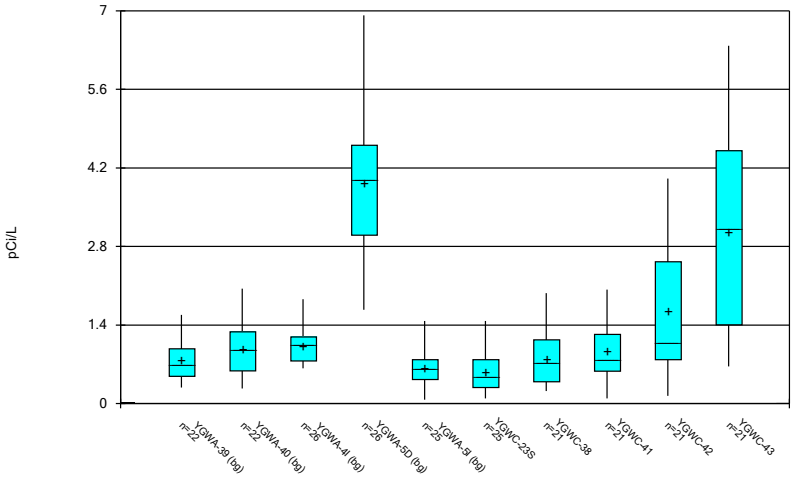
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 1/2/2025 12:09 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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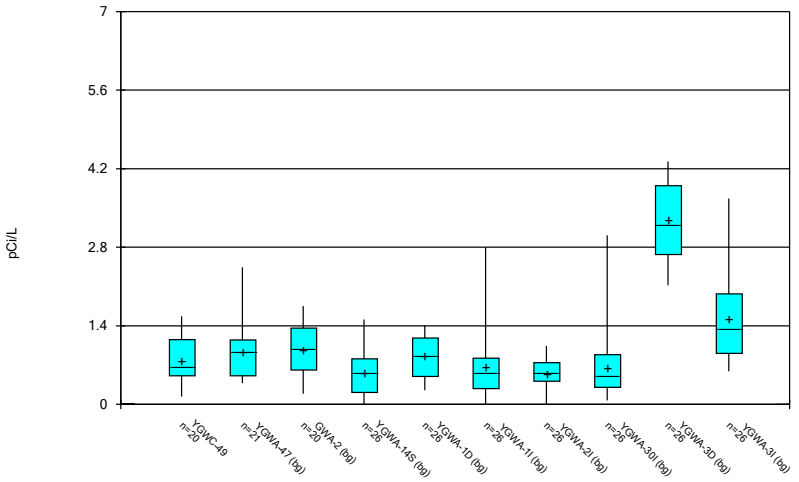
Box & Whiskers Plot



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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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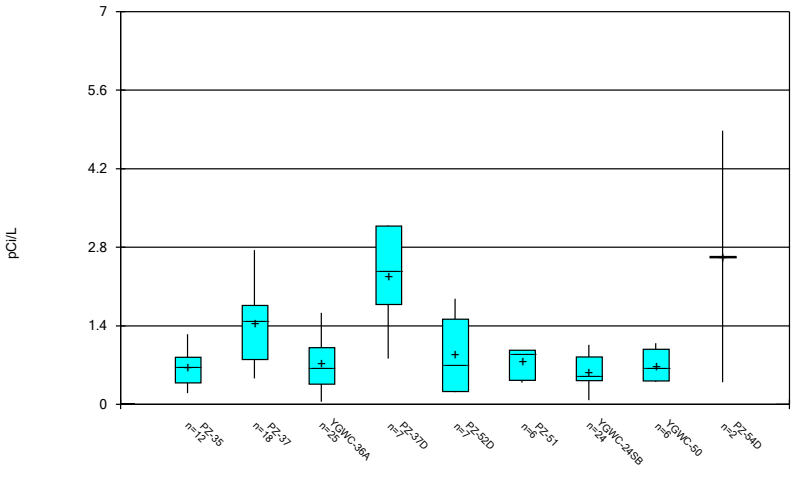
Box & Whiskers Plot



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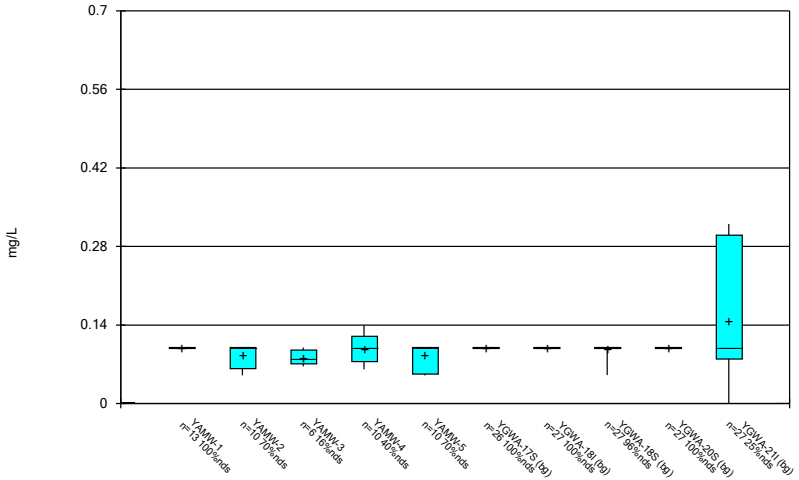
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 1/2/2025 12:09 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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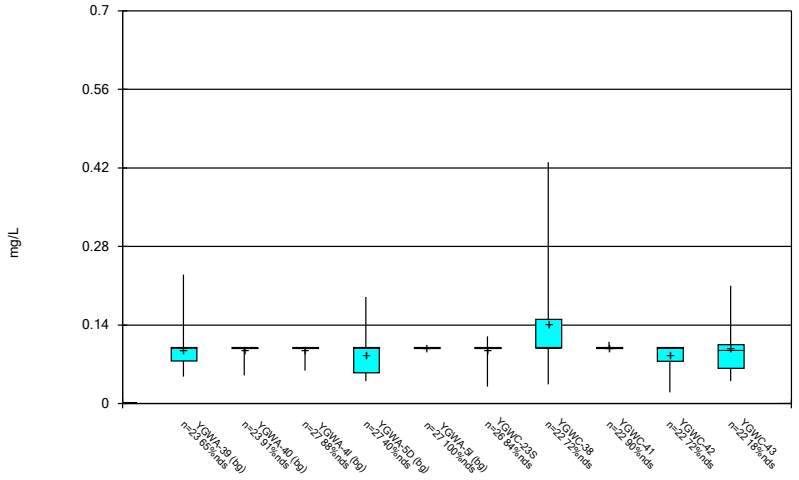
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 1/2/2025 12:09 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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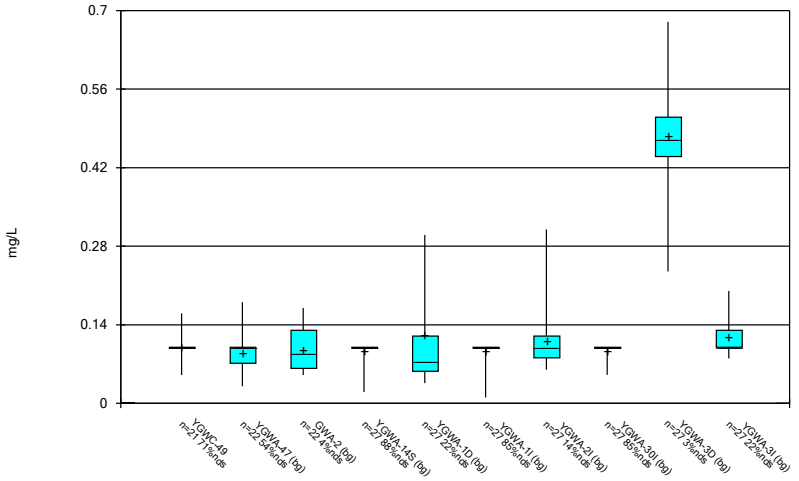
Box & Whiskers Plot



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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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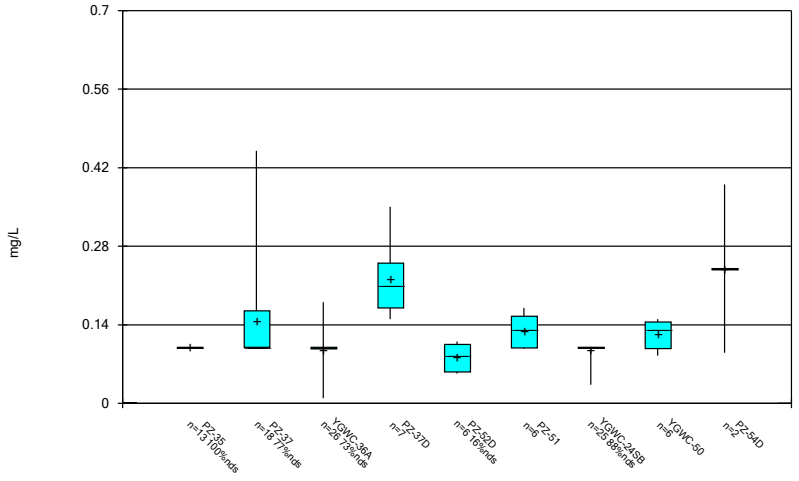
Box & Whiskers Plot



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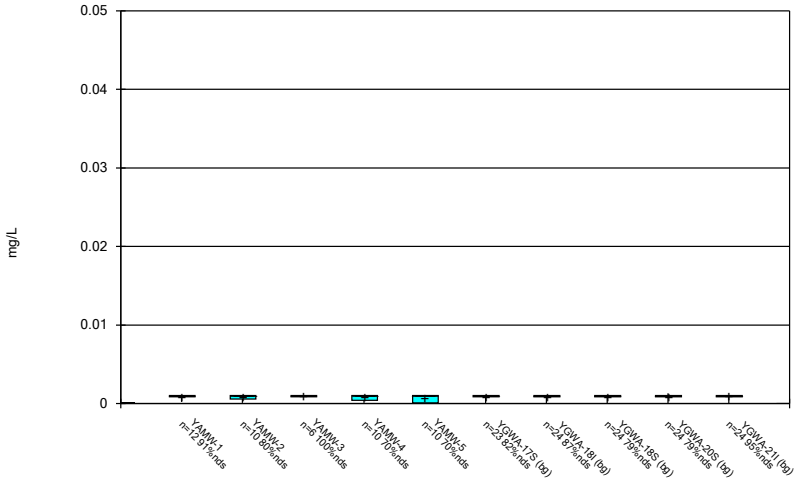
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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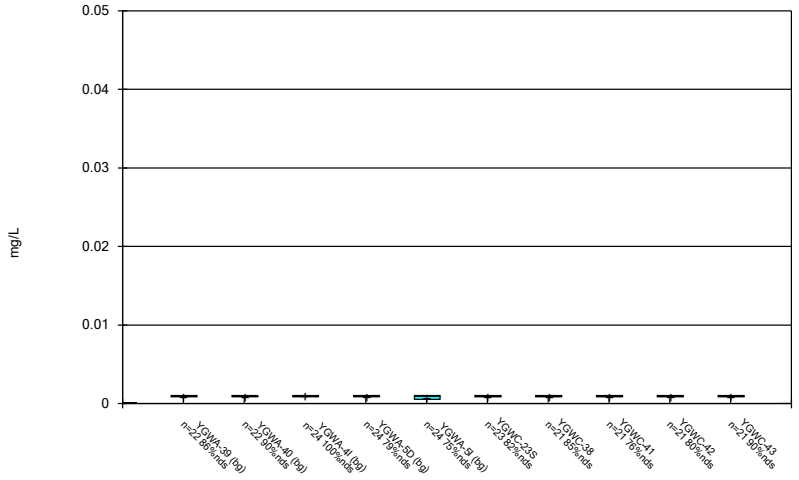
Box & Whiskers Plot



Constituent: Lead Analysis Run 1/2/2025 12:09 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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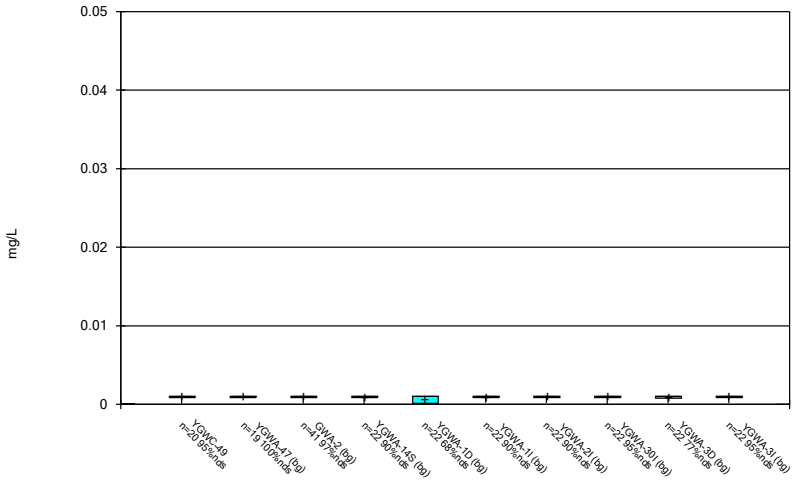
Box & Whiskers Plot



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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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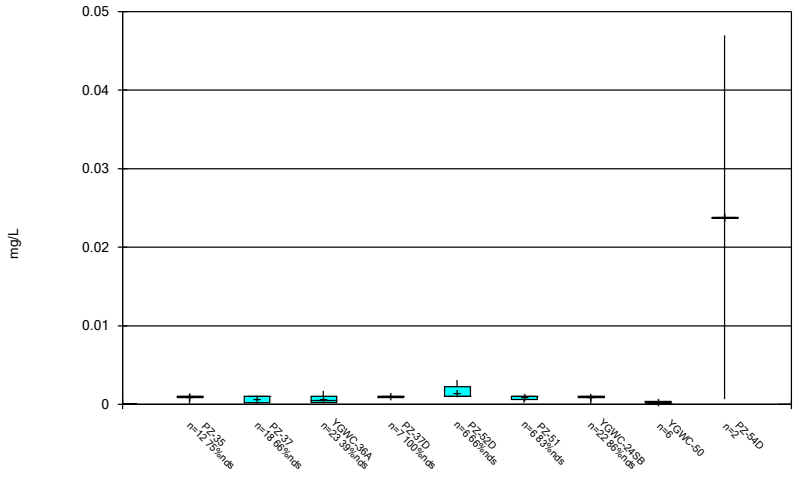
Box & Whiskers Plot



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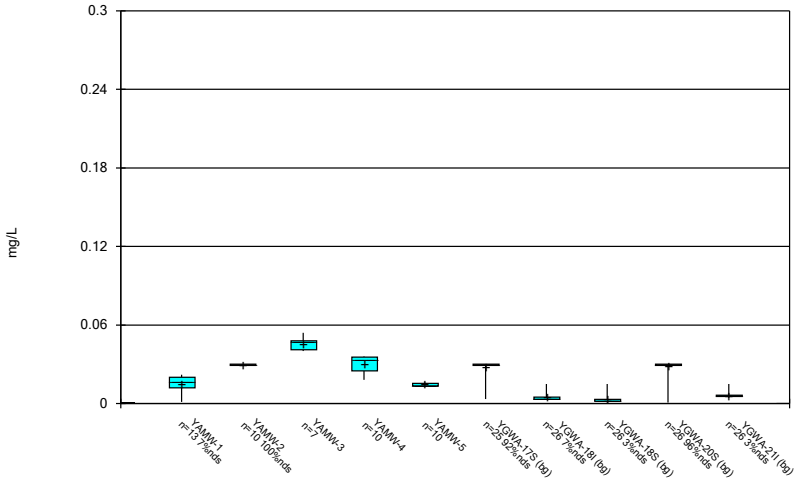
Box & Whiskers Plot



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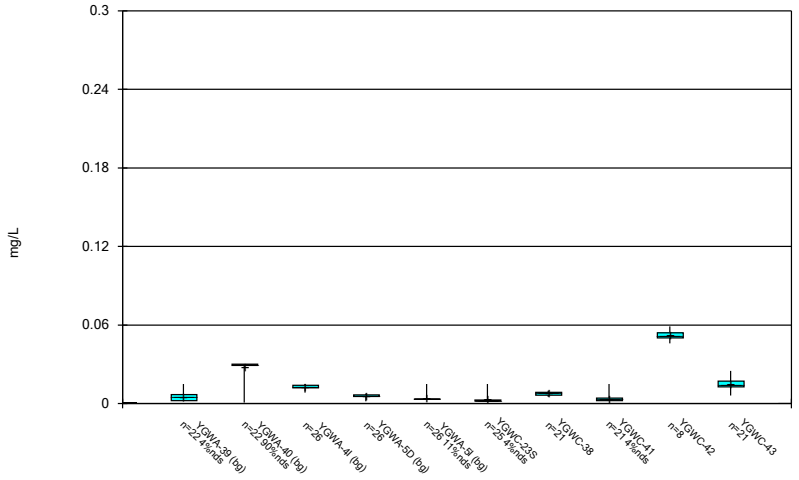

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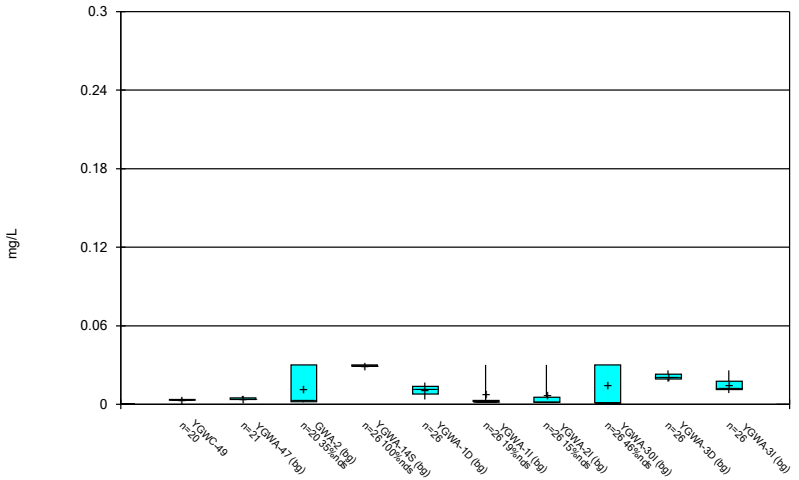
Box & Whiskers Plot



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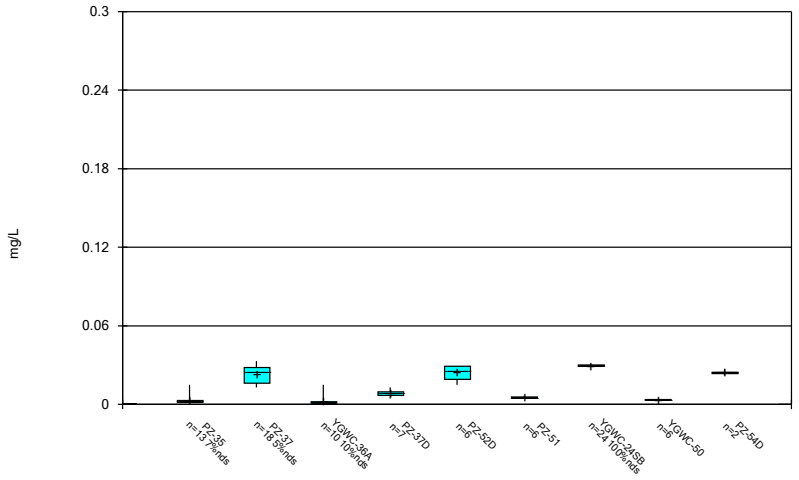
Box & Whiskers Plot



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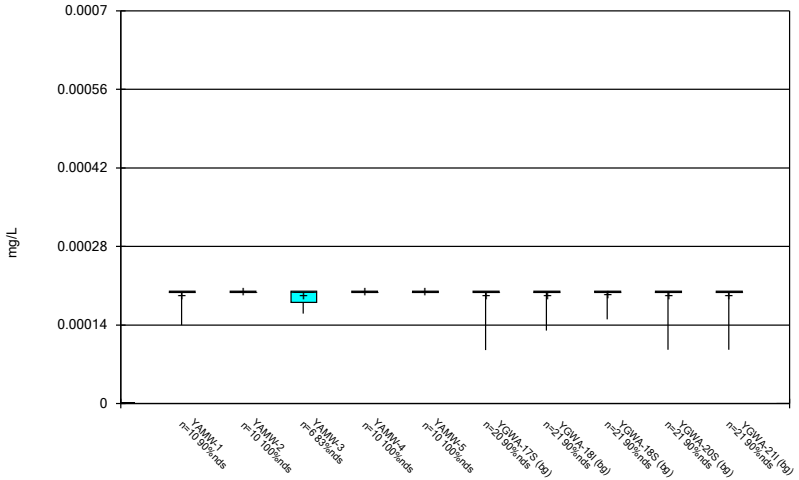

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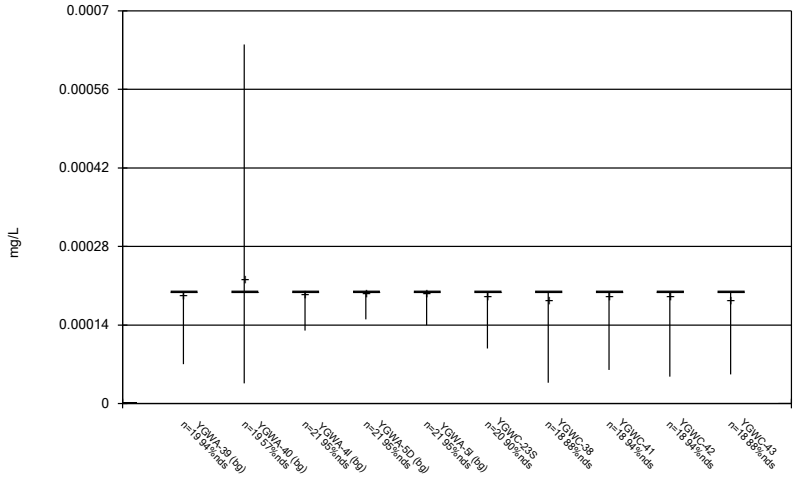
Box & Whiskers Plot



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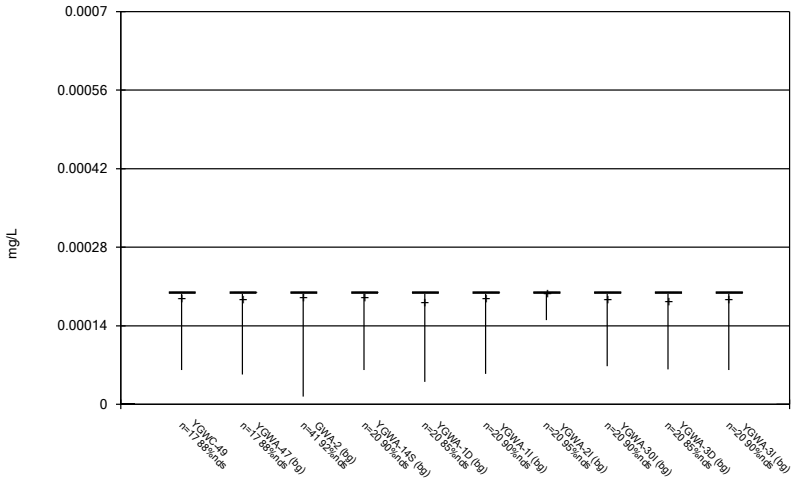
Box & Whiskers Plot



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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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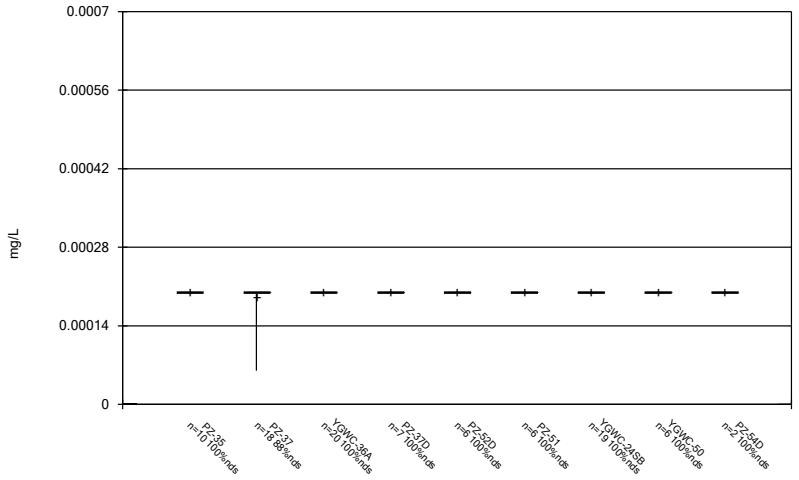
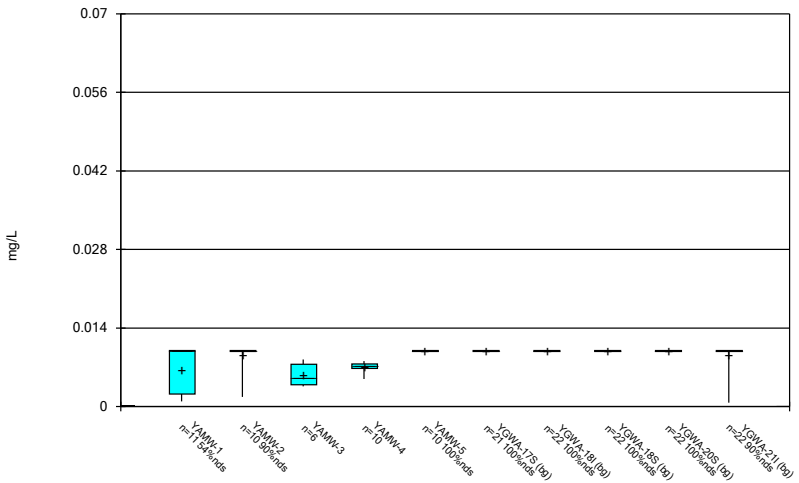


Constituent: Mercury Analysis Run 1/2/2025 12:09 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 1/2/2025 12:09 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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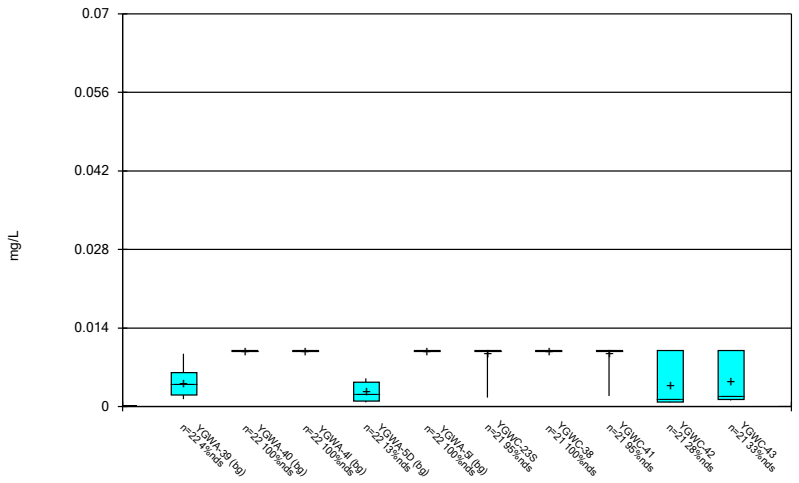
Box & Whiskers Plot



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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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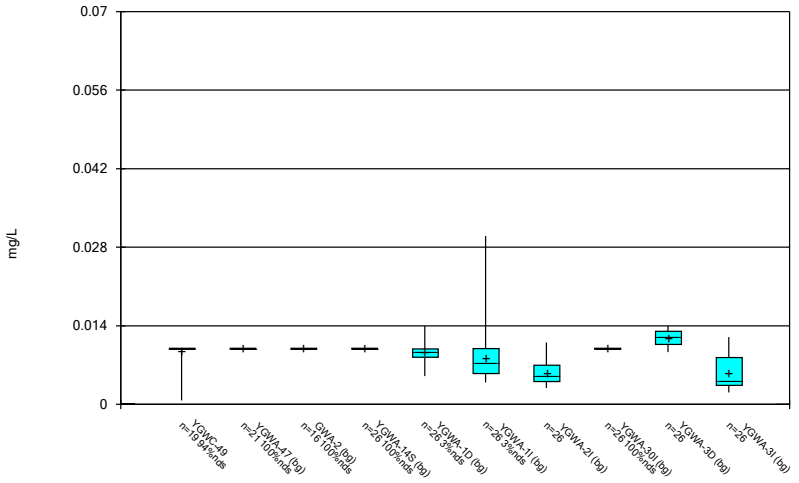
Box & Whiskers Plot



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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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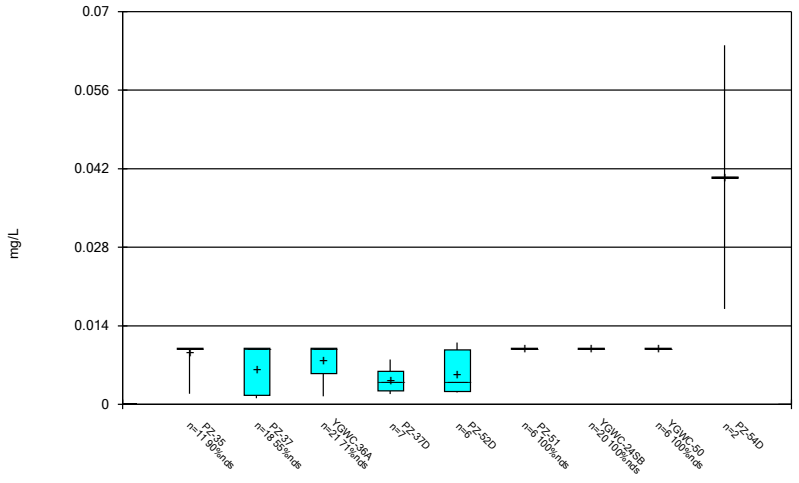
Box & Whiskers Plot



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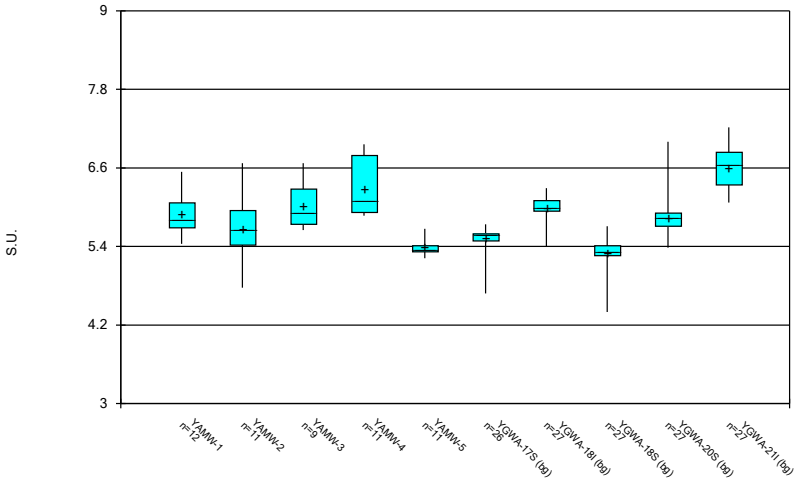

Constituent: pH Analysis Run 1/2/2025 12:09 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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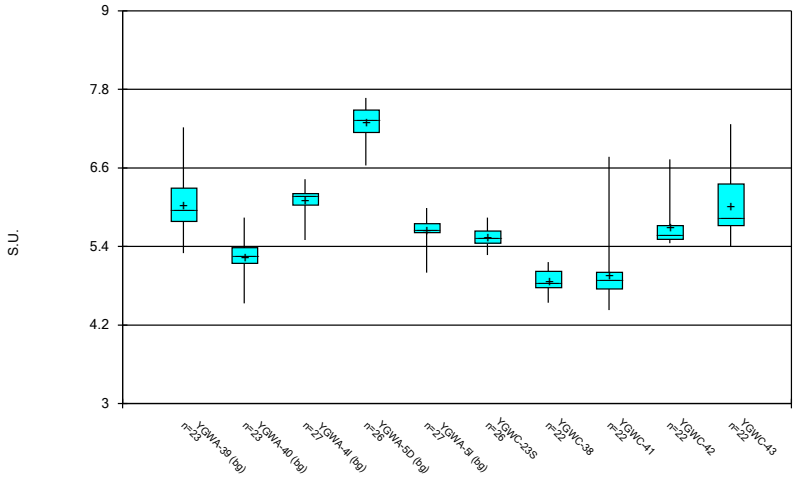
Box & Whiskers Plot



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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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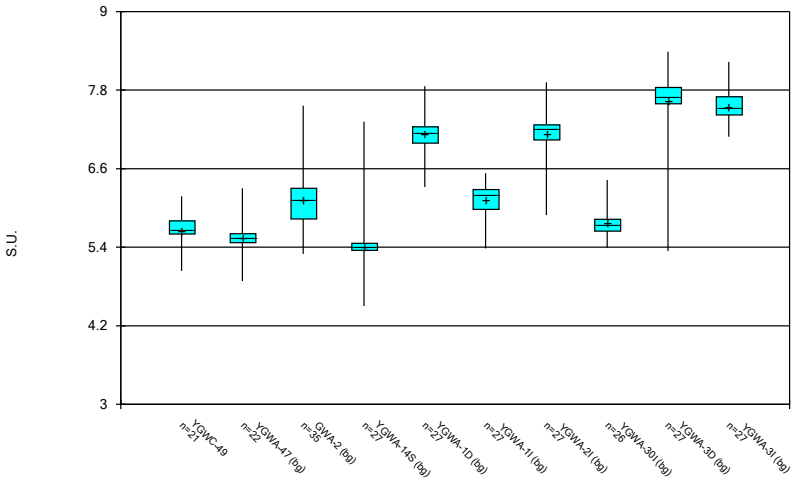

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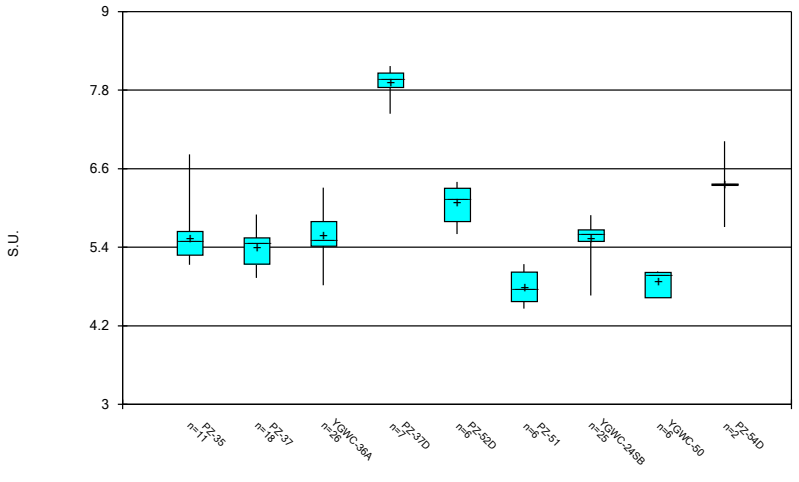

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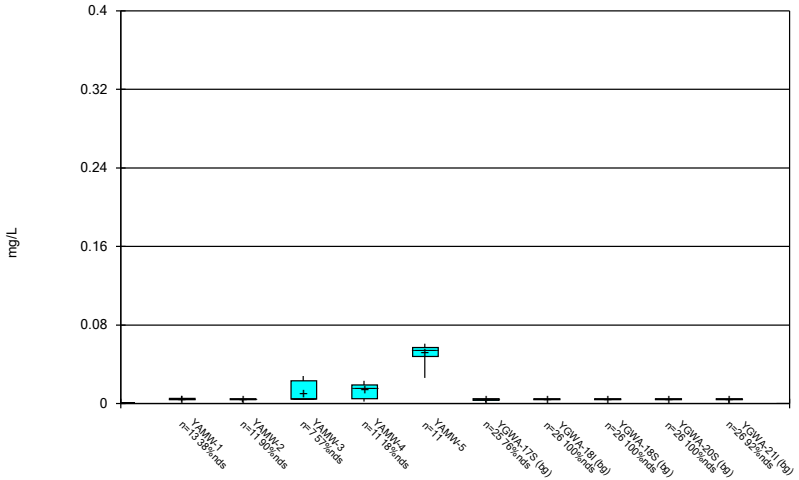
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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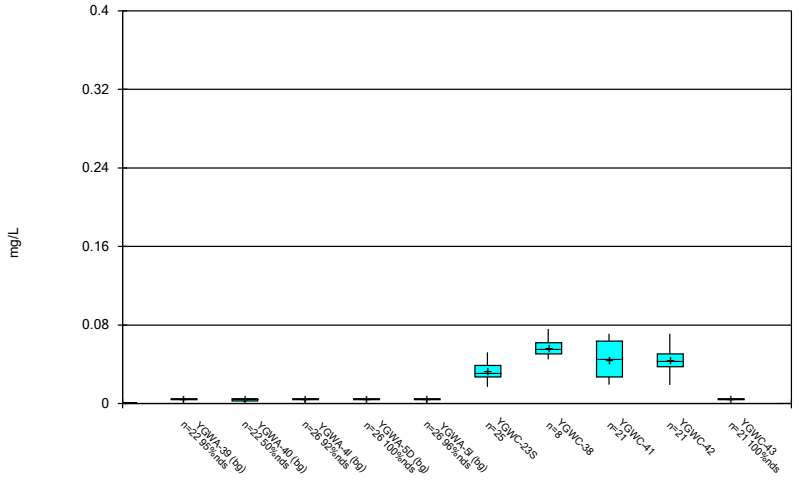
Box & Whiskers Plot



Constituent: Selenium Analysis Run 1/2/2025 12:09 PM

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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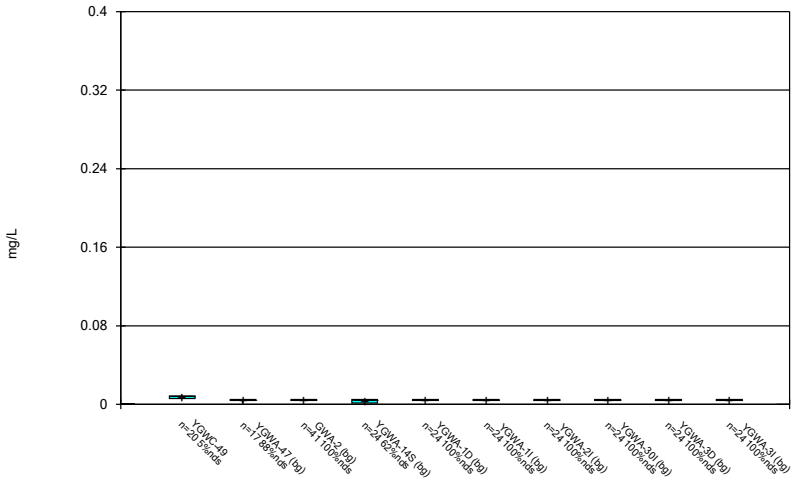
Box & Whiskers Plot



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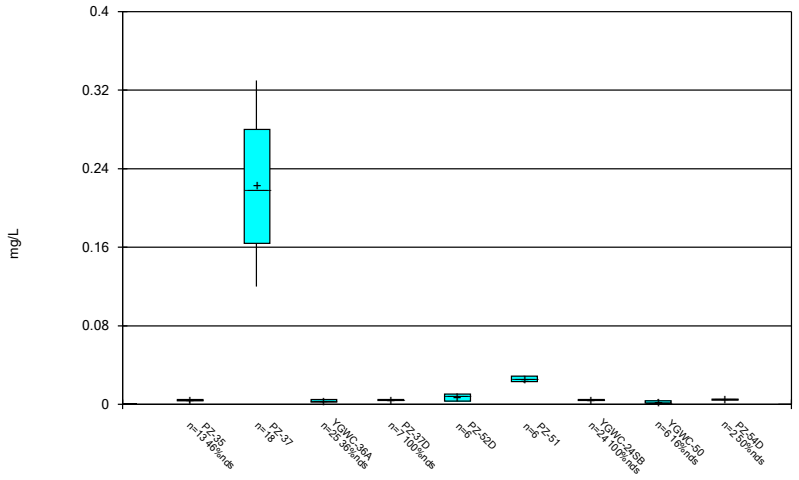

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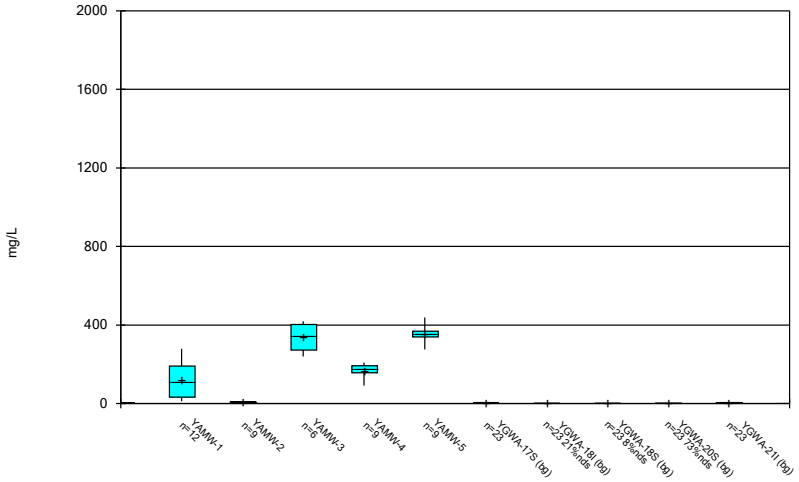

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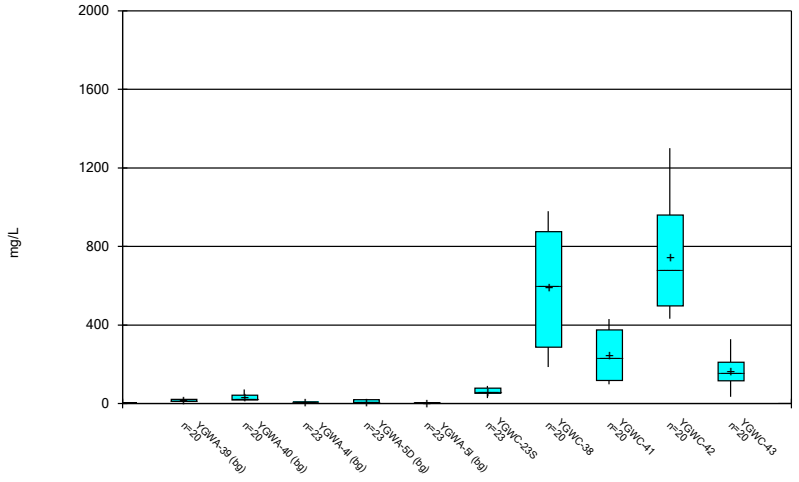
Box & Whiskers Plot



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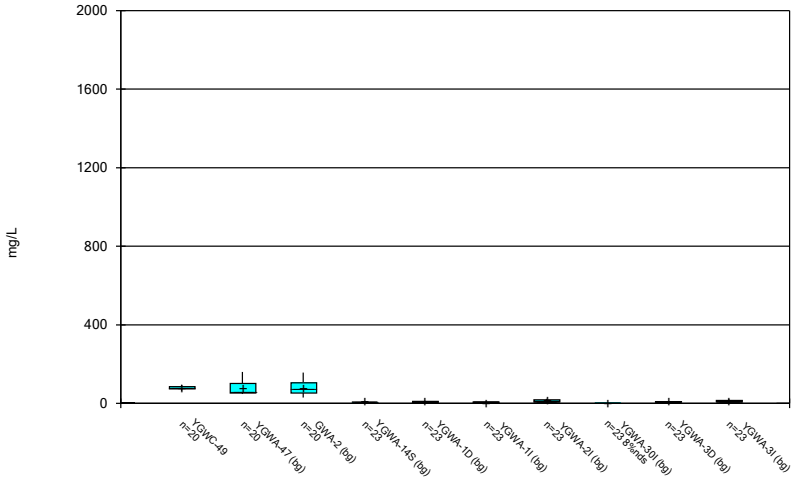

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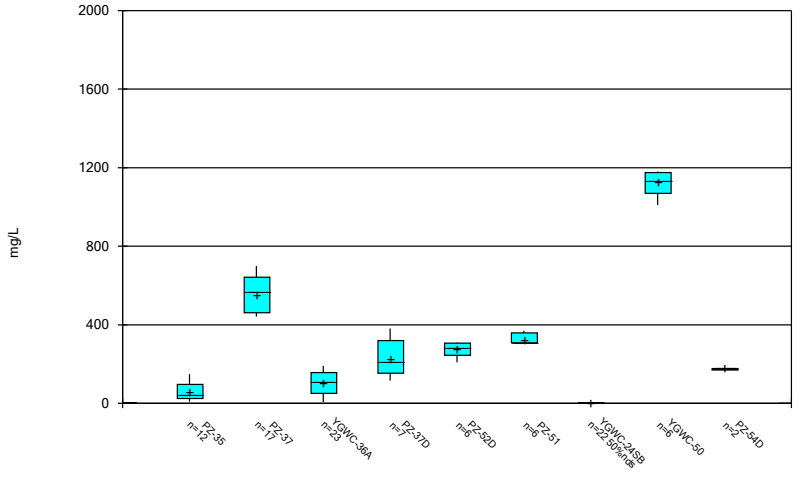
Box & Whiskers Plot



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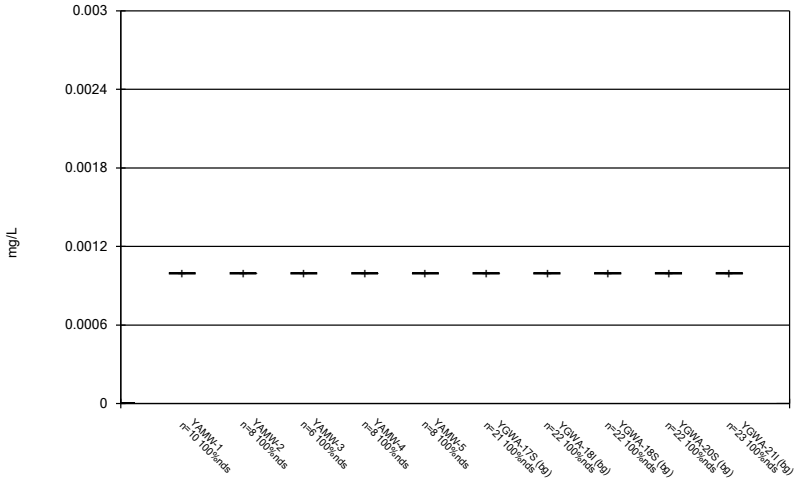
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



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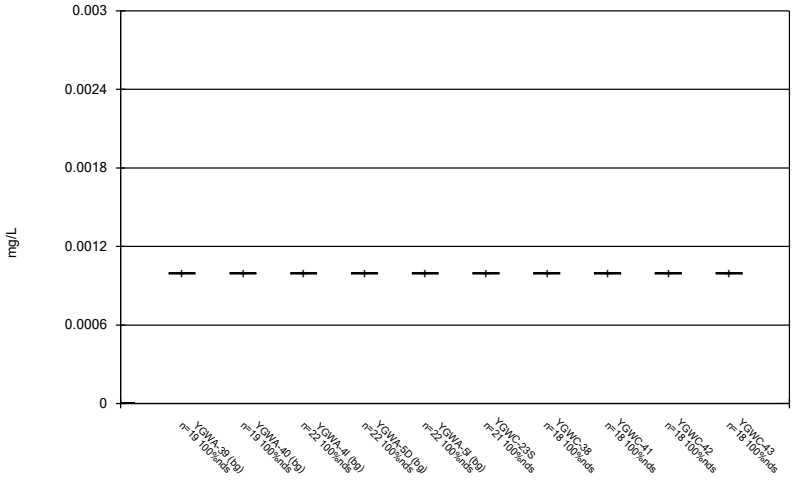
Box & Whiskers Plot



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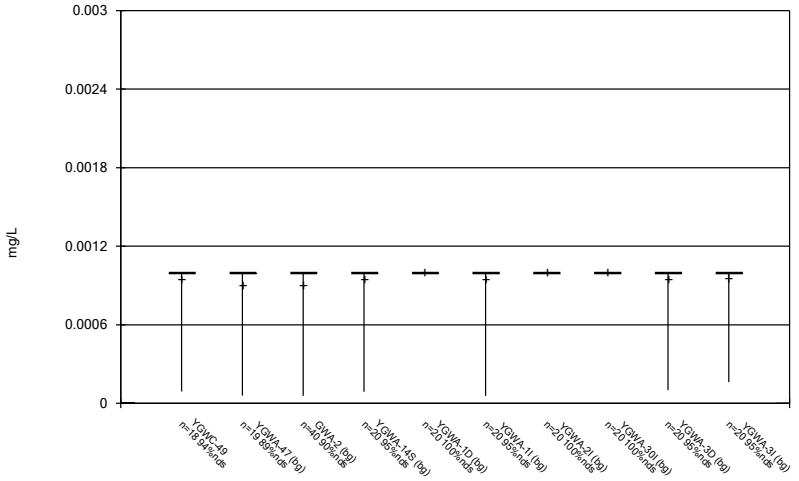
Box & Whiskers Plot



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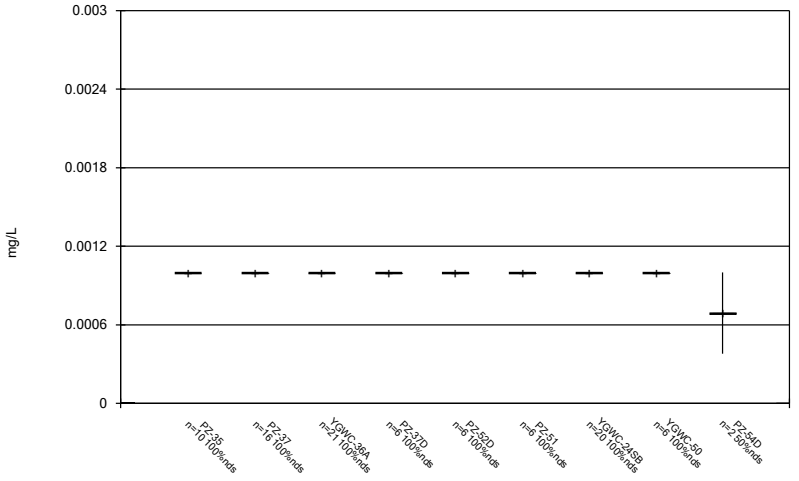
Box & Whiskers Plot



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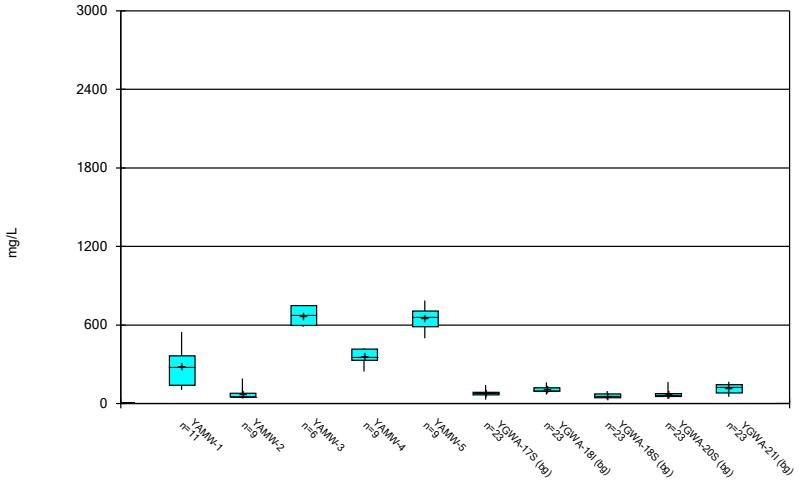
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 1/2/2025 12:09 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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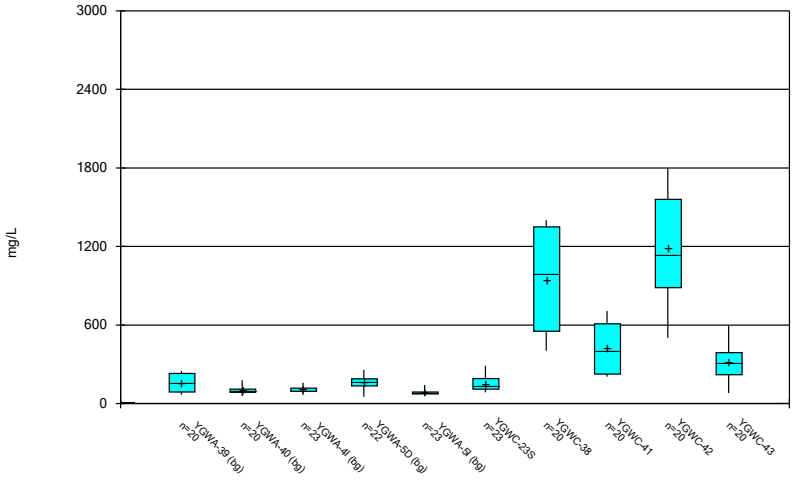
Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 1/2/2025 12:09 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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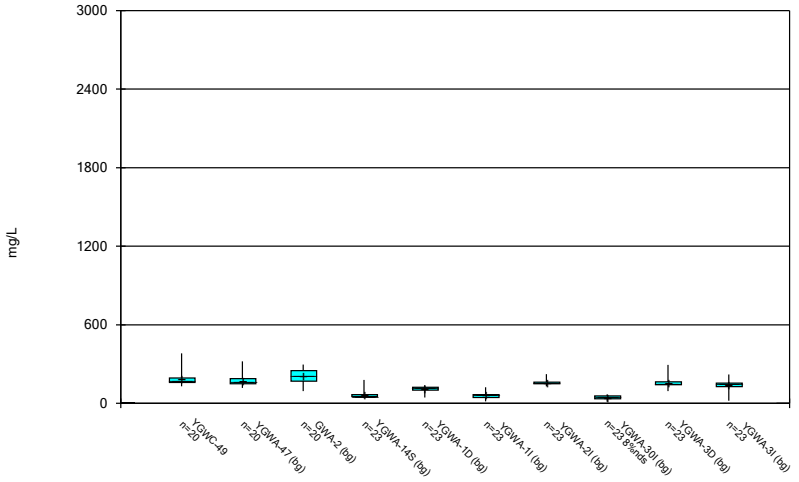
Box & Whiskers Plot



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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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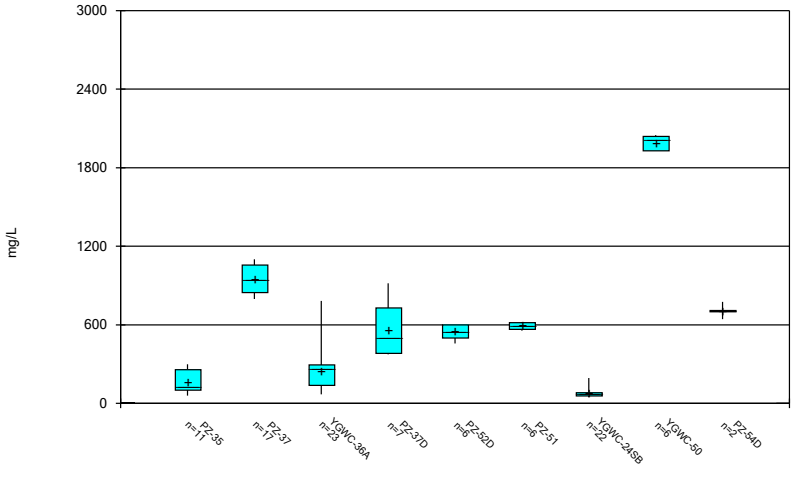
Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 1/2/2025 12:10 PM
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

FIGURE C.

Outlier Summary

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 10/24/2024, 10:16 AM

	GWA-2 Cobalt (mg/L)	YAMW-3 Lithium (mg/L)	YGWA-5D Total Dissolved Solids (mg/L)
8/26/2020	0.2 (O)		
9/22/2020	0.16 (O)		
3/2/2021	0.21 (O)		
8/20/2021	0.074 (O)		
11/17/2021		0.046 (o)	
2/8/2022	0.072 (o)		
8/30/2022	0.075 (o)		
2/20/2024			639 (o)

Tukey's Outlier Test - Upgradient Wells - Significant Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 11/4/2024, 3:46 PM

Constituent	Well	Outlier	Value(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
Barium (mg/L)	**YGWA-17S,YGWA-18I...**	**Yes**	**0.0671,0.0656,0.0598,0.061,0.061,0.061,0.071,0.06**	**NP**	**NaN**	**495**	**0.01707**	**0.01723**	**normal**	**ShapiroWilk**
Boron (mg/L)	**YGWA-17S,YGWA-18I...**	**Yes**	**0.13,0.13,0.13,0.14,0.15,0.15,0.156,0.146,0.16**	**NP**	**NaN**	**425**	**0.03251**	**0.02478**	**normal**	**ShapiroWilk**
Combined Radium 226 + 228 (pCi/L)	**YGWA-17S,YGWA-18I...**	**Yes**	**5.11,6.92,3.96,3.96,4.53,4.43,4.43,4.8,4.16,3.99,**	**NP**	**NaN**	**474**	**1.099**	**1.049**	**normal**	**ShapiroWilk**
Molybdenum (mg/L)	**YGWA-17S,YGWA-18I...**	**Yes**	**0.0007,0.0008,0.0045,0.0045,0.0045,0.0035,0.0035,**	**NP**	**NaN**	**438**	**0.008791**	**0.002896**	**normal**	**ShapiroWilk**
Sulfate (mg/L)	**YGWA-17S,YGWA-18I...**	**Yes**	**71,66,57.2,49.4,43.8,160,150,120,120,110,93,88.8,**	**NP**	**NaN**	**425**	**14.35**	**25.04**	**normal**	**ShapiroWilk**
Total Dissolved Solids (mg/L)	**YGWA-17S,YGWA-18I...**	**Yes**	**639**	**NP**	**NaN**	**425**	**113.1**	**61.2**	**normal**	**ShapiroWilk**

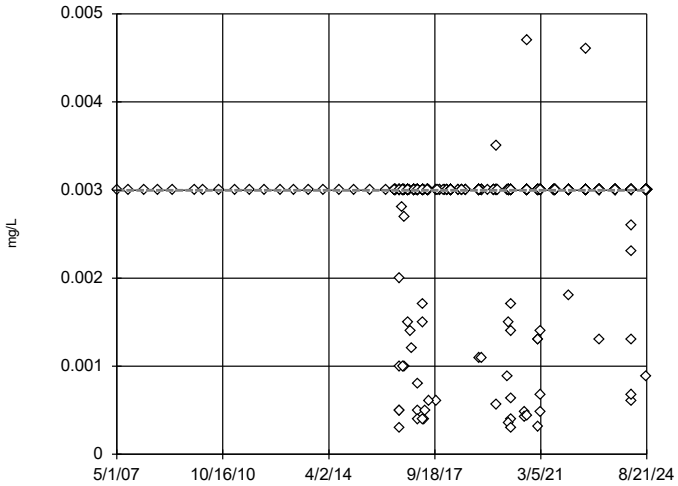
Tukey's Outlier Test - Upgradient Wells - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 11/4/2024, 3:46 PM

Constituent	Well	Outlier	Value(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
Antimony (mg/L)	YGWA-17S,YGWA-18I...	n/a	n/a	NP	NaN	447	0.002788	0.000671	unknown	ShapiroWilk
Arsenic (mg/L)	YGWA-17S,YGWA-18I...	n/a	n/a	NP	NaN	495	0.004205	0.001474	unknown	ShapiroWilk
Barium (mg/L)	**YGWA-17S,YGWA-18I...**	**Yes**	**0.0671,0.0656,0.0598,0.061,0.061,0.061,0.071,0.06**	**NP**	**NaN**	**495**	**0.01707**	**0.01723**	**normal**	**ShapiroWilk**
Beryllium (mg/L)	YGWA-17S,YGWA-18I...	n/a	n/a	NP	NaN	479	0.0004313	0.0001496	unknown	ShapiroWilk
Boron (mg/L)	**YGWA-17S,YGWA-18I...**	**Yes**	**0.13,0.13,0.13,0.14,0.15,0.15,0.156,0.146,0.16**	**NP**	**NaN**	**425**	**0.03251**	**0.02478**	**normal**	**ShapiroWilk**
Cadmium (mg/L)	YGWA-17S,YGWA-18I...	n/a	n/a	NP	NaN	479	0.0004848	0.00007443	unknown	ShapiroWilk
Calcium (mg/L)	YGWA-17S,YGWA-18I...	No	n/a	NP	NaN	425	10.33	9.973	normal	ShapiroWilk
Chloride (mg/L)	YGWA-17S,YGWA-18I...	No	n/a	NP	NaN	425	3.628	2.274	normal	ShapiroWilk
Chromium (mg/L)	YGWA-17S,YGWA-18I...	n/a	n/a	NP	NaN	447	0.004354	0.001532	unknown	ShapiroWilk
Cobalt (mg/L)	YGWA-17S,YGWA-18I...	n/a	n/a	NP	NaN	495	0.006876	0.01599	unknown	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	**YGWA-17S,YGWA-18I...**	**Yes**	**5.11,6.92,3.96,3.96,4.53,4.43,4.43,4.8,4.16,3.99,**	**NP**	**NaN**	**474**	**1.099**	**1.049**	**normal**	**ShapiroWilk**
Fluoride (mg/L)	YGWA-17S,YGWA-18I...	n/a	n/a	NP	NaN	494	0.1164	0.09204	unknown	ShapiroWilk
Lead (mg/L)	YGWA-17S,YGWA-18I...	n/a	n/a	NP	NaN	449	0.000896	0.00029	unknown	ShapiroWilk
Lithium (mg/L)	YGWA-17S,YGWA-18I...	No	n/a	NP	NaN	474	0.01336	0.01145	normal	ShapiroWilk
Mercury (mg/L)	YGWA-17S,YGWA-18I...	n/a	n/a	NP	NaN	403	0.0001933	0.00003992	unknown	ShapiroWilk
Molybdenum (mg/L)	**YGWA-17S,YGWA-18I...**	**Yes**	**0.0007,0.0008,0.0045,0.0045,0.0045,0.0035,0.0035,**	**NP**	**NaN**	**438**	**0.008791**	**0.002896**	**normal**	**ShapiroWilk**
pH (S.U.)	YGWA-17S,YGWA-18I...	No	n/a	NP	NaN	505	6.224	0.8143	normal	ShapiroWilk
Selenium (mg/L)	YGWA-17S,YGWA-18I...	n/a	n/a	NP	NaN	477	0.004769	0.0008663	unknown	ShapiroWilk
Sulfate (mg/L)	**YGWA-17S,YGWA-18I...**	**Yes**	**71,66,57.2,49.4,43.8,160,150,120,120,110,93,88.8,**	**NP**	**NaN**	**425**	**14.35**	**25.04**	**normal**	**ShapiroWilk**
Thallium (mg/L)	YGWA-17S,YGWA-18I...	n/a	n/a	NP	NaN	413	0.0009777	0.0001418	unknown	ShapiroWilk
Total Dissolved Solids (mg/L)	**YGWA-17S,YGWA-18I...**	**Yes**	**639**	**NP**	**NaN**	**425**	**113.1**	**61.2**	**normal**	**ShapiroWilk**

Tukey's Outlier Screening, Pooled Background

YGWA-17S,YGWA-18I,YGWA-18S,YGWA-20S...



n = 447

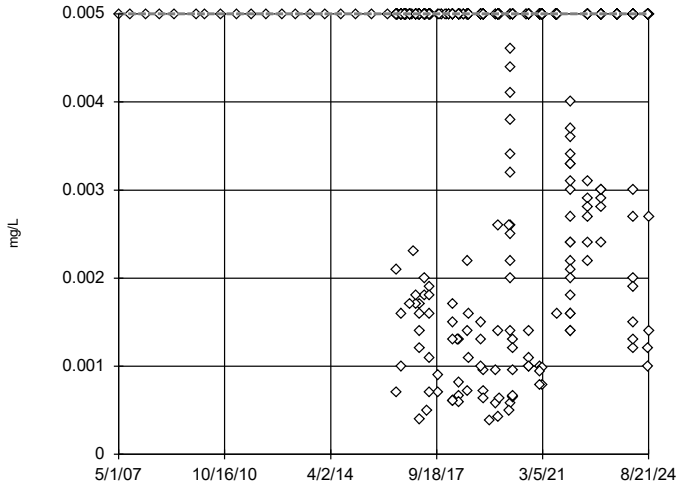
No outliers found.
Tukey's method selected by user.

The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Antimony Analysis Run 11/4/2024 3:44 PM View: Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Tukey's Outlier Screening, Pooled Background

YGWA-17S,YGWA-18I,YGWA-18S,YGWA-20S...



n = 495

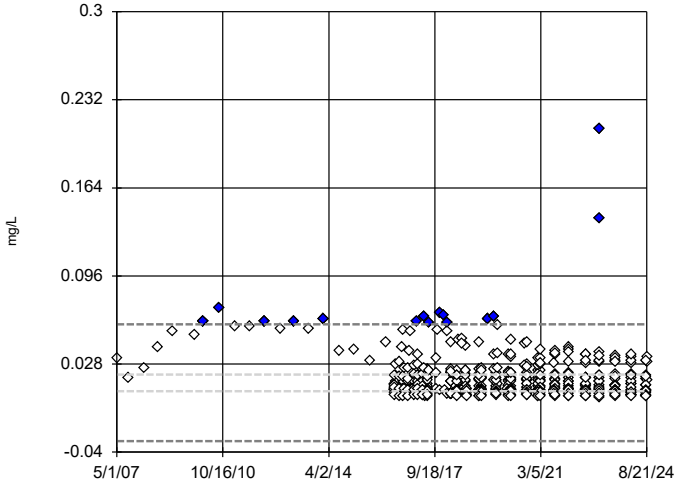
No outliers found.
Tukey's method selected by user.

The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Arsenic Analysis Run 11/4/2024 3:44 PM View: Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Tukey's Outlier Screening, Pooled Background

YGWA-17S,YGWA-18I,YGWA-18S,YGWA-20S...



n = 495

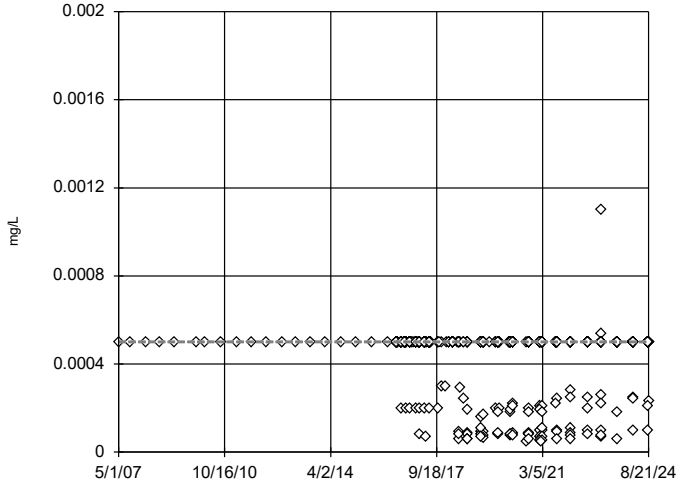
Outliers are drawn as solid.
Tukey's method selected by user.

High cutoff = 0.0587, low cutoff = -0.0316, based on IQR multiplier of 3.

Constituent: Barium Analysis Run 11/4/2024 3:44 PM View: Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Tukey's Outlier Screening, Pooled Background

YGWA-17S,YGWA-18I,YGWA-18S,YGWA-20S...



n = 479

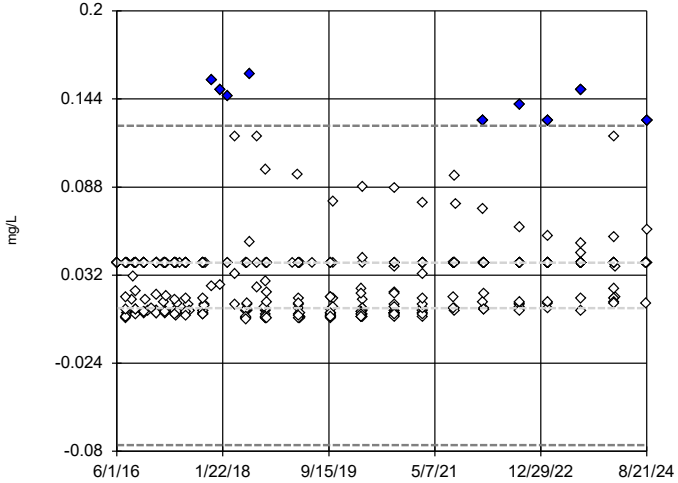
No outliers found.
Tukey's method selected by user.

The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Beryllium Analysis Run 11/4/2024 3:44 PM View: Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Tukey's Outlier Screening, Pooled Background

YGWA-17S,YGWA-18I,YGWA-18S,YGWA-20S...



n = 425

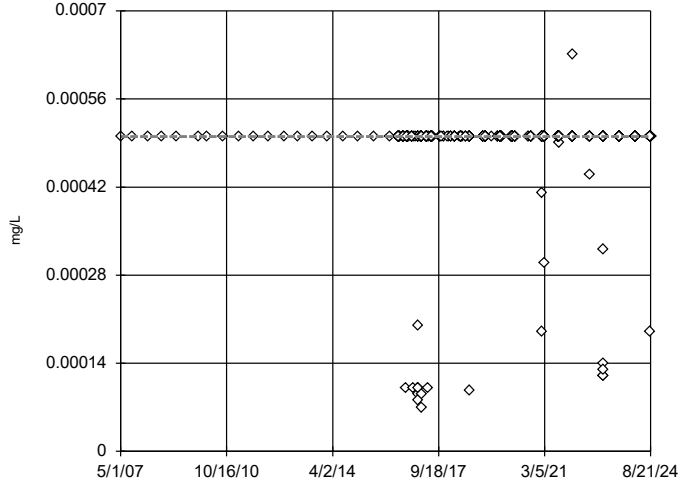
Outliers are drawn as solid.
Tukey's method selected by user.

High cutoff = 0.127, low cutoff = -0.076, based on IQR multiplier of 3.

Constituent: Boron Analysis Run 11/4/2024 3:44 PM View: Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Tukey's Outlier Screening, Pooled Background

YGWA-17S,YGWA-18I,YGWA-18S,YGWA-20S...



n = 479

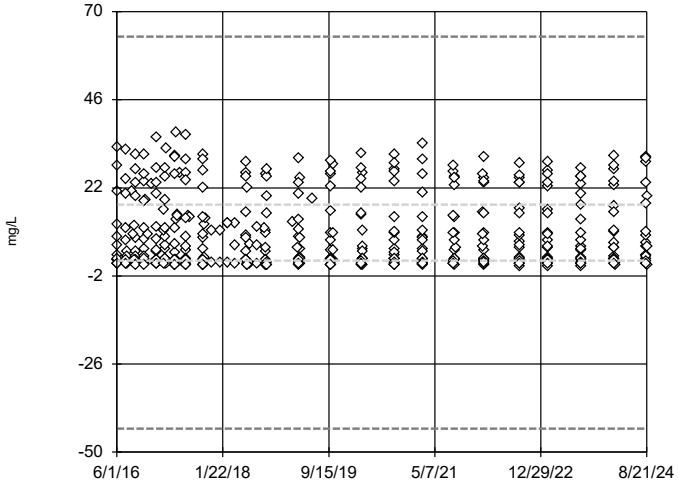
No outliers found.
Tukey's method selected by user.

The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cadmium Analysis Run 11/4/2024 3:44 PM View: Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Tukey's Outlier Screening, Pooled Background

YGWA-17S,YGWA-18I,YGWA-18S,YGWA-20S...



n = 425

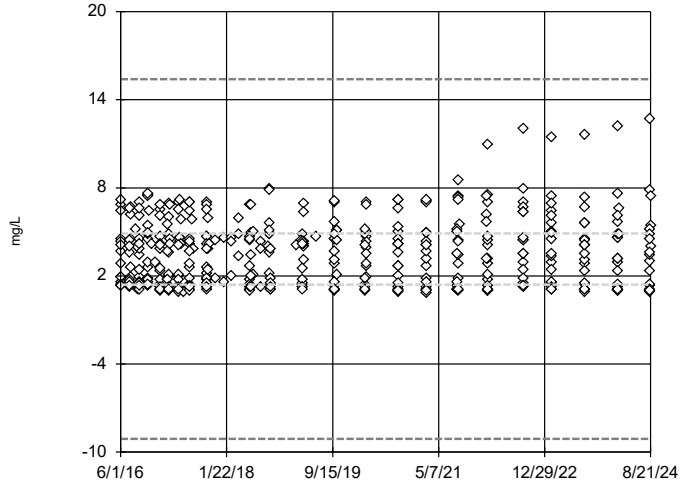
No outliers found.
Tukey's method selected by user.

High cutoff = 63.23, low cutoff = -43.59, based on IQR multiplier of 3.

Constituent: Calcium Analysis Run 11/4/2024 3:44 PM View: Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Tukey's Outlier Screening, Pooled Background

YGWA-17S,YGWA-18I,YGWA-18S,YGWA-20S...



n = 425

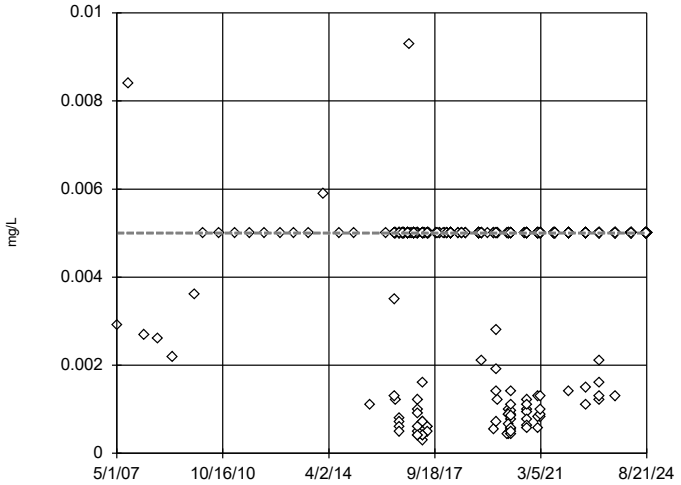
No outliers found.
Tukey's method selected by user.

High cutoff = 15.4, low cutoff = -9.1, based on IQR multiplier of 3.

Constituent: Chloride Analysis Run 11/4/2024 3:44 PM View: Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Tukey's Outlier Screening, Pooled Background

YGWA-17S,YGWA-18I,YGWA-18S,YGWA-20S...



n = 447

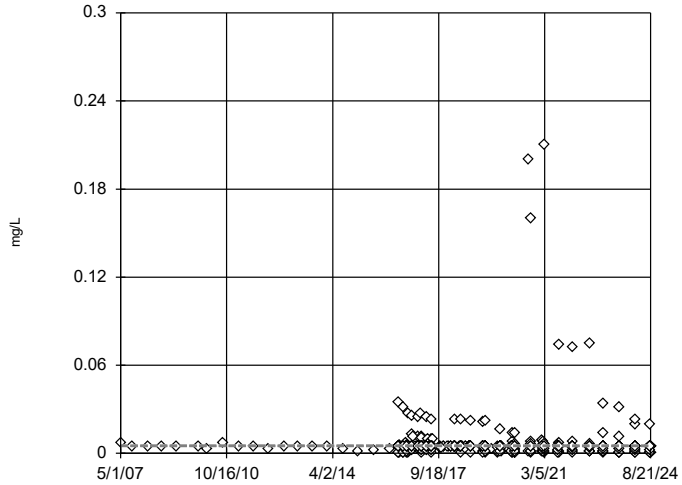
No outliers found.
Tukey's method selected by user.

The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Chromium Analysis Run 11/4/2024 3:44 PM View: Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Tukey's Outlier Screening, Pooled Background

YGWA-17S,YGWA-18I,YGWA-18S,YGWA-20S...



n = 495

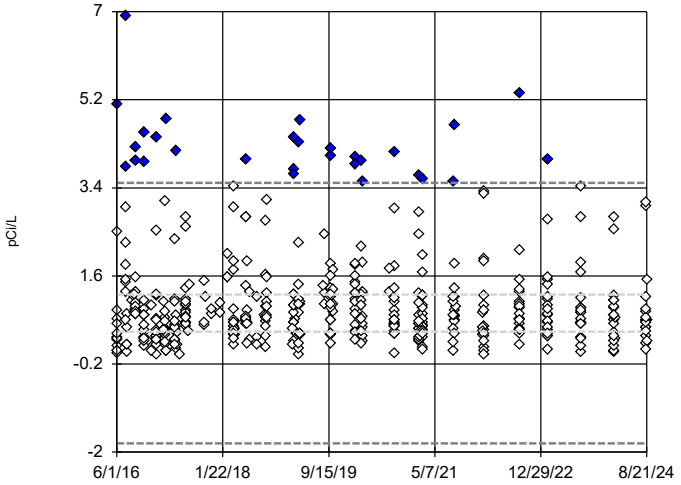
No outliers found.
Tukey's method selected by user.

The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cobalt Analysis Run 11/4/2024 3:44 PM View: Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Tukey's Outlier Screening, Pooled Background

YGWA-17S,YGWA-18I,YGWA-18S,YGWA-20S...



n = 474

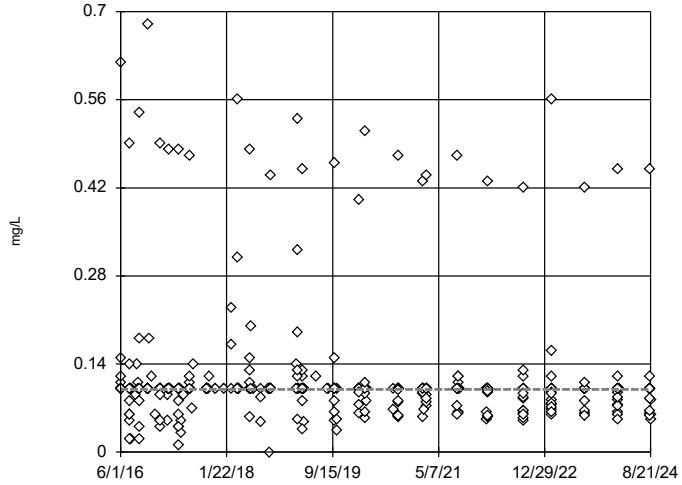
Outliers are drawn as solid.
Tukey's method selected by user.

High cutoff = 3.502, low cutoff = -1.822, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 11/4/2024 3:44 PM View: Upgradient Wells Scree
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Tukey's Outlier Screening, Pooled Background

YGWA-17S,YGWA-18I,YGWA-18S,YGWA-20S...



n = 494

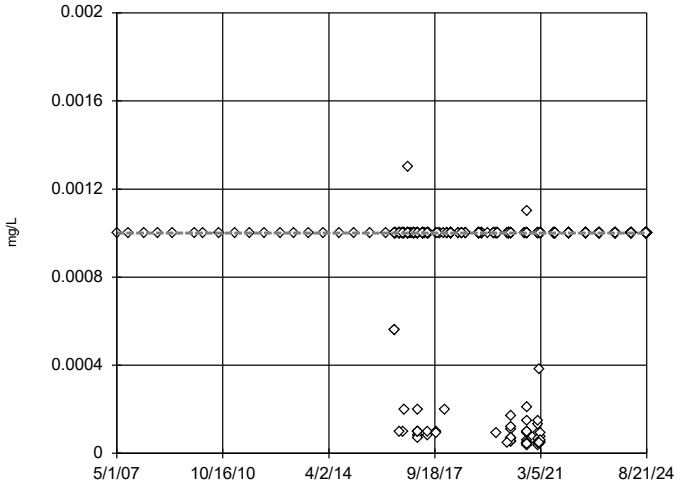
No outliers found.
Tukey's method selected by user.

The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Fluoride Analysis Run 11/4/2024 3:44 PM View: Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Tukey's Outlier Screening, Pooled Background

YGWA-17S,YGWA-18I,YGWA-18S,YGWA-20S...



n = 449

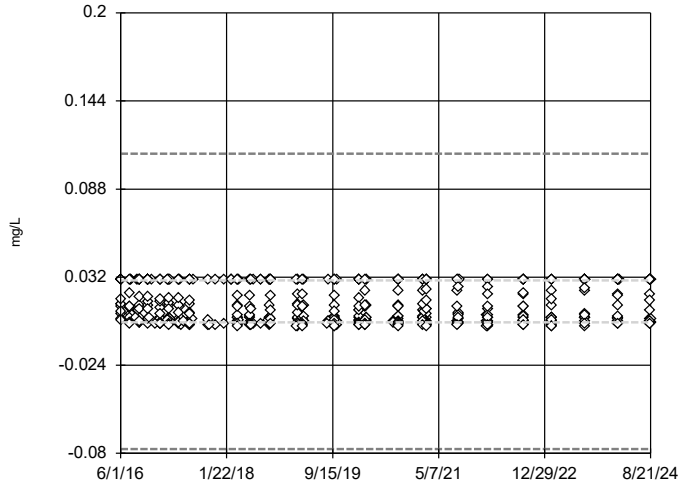
No outliers found.
Tukey's method select-ed by user.

The results were invalid-ated, because the lower and upper quartiles are equal.

Constituent: Lead Analysis Run 11/4/2024 3:44 PM View: Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Tukey's Outlier Screening, Pooled Background

YGWA-17S,YGWA-18I,YGWA-18S,YGWA-20S...



n = 474

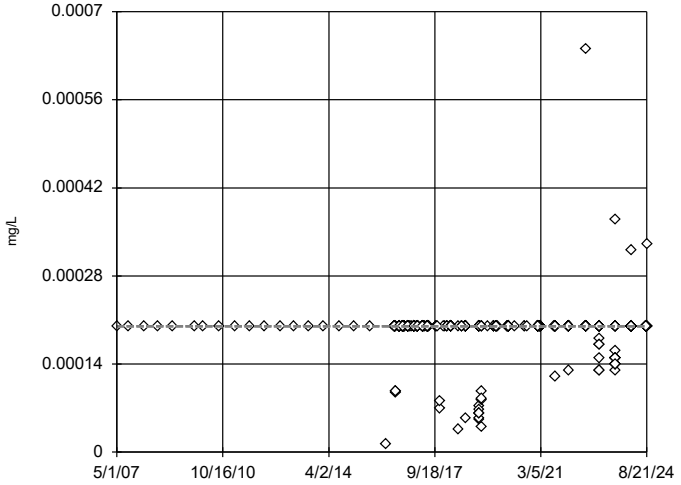
No outliers found.
Tukey's method select-ed by user.

High cutoff = 0.1104, low cutoff = -0.0772, based on IQR multiplier of 3.

Constituent: Lithium Analysis Run 11/4/2024 3:44 PM View: Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Tukey's Outlier Screening, Pooled Background

YGWA-17S,YGWA-18I,YGWA-18S,YGWA-20S...



n = 403

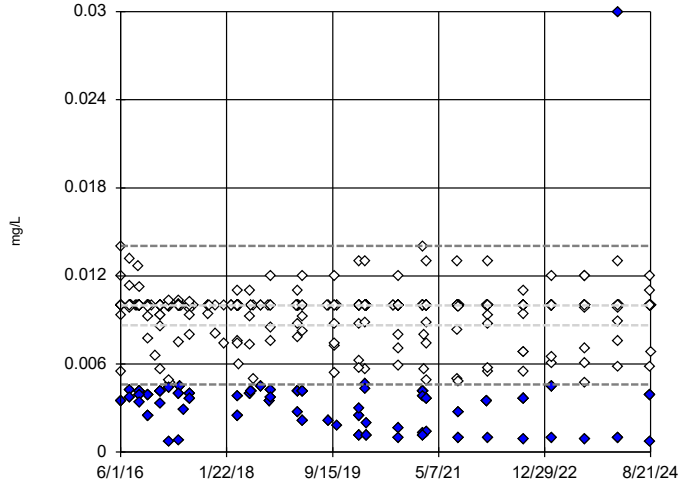
No outliers found.
Tukey's method select-ed by user.

The results were invalid-ated, because the lower and upper quartiles are equal.

Constituent: Mercury Analysis Run 11/4/2024 3:44 PM View: Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Tukey's Outlier Screening, Pooled Background

YGWA-17S,YGWA-18I,YGWA-18S,YGWA-20S...



n = 438

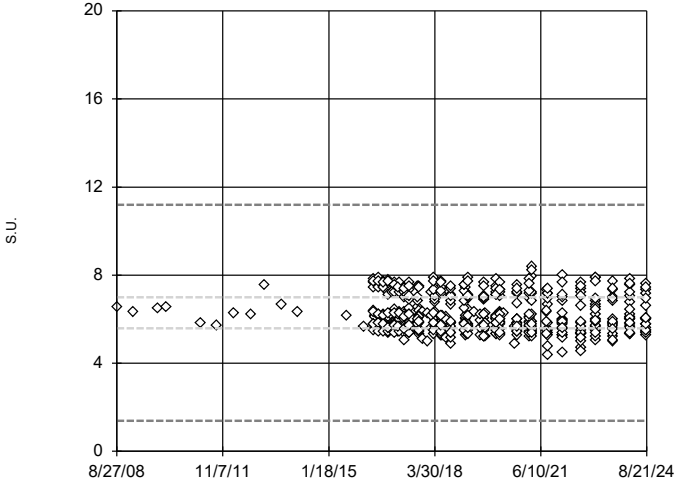
Outliers are drawn as solid.
Tukey's method select-ed by user.

High cutoff = 0.01405, low cutoff = 0.0046, based on IQR multiplier of 3.

Constituent: Molybdenum Analysis Run 11/4/2024 3:44 PM View: Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Tukey's Outlier Screening, Pooled Background

YGWA-17S,YGWA-18I,YGWA-18S,YGWA-20S...



n = 505

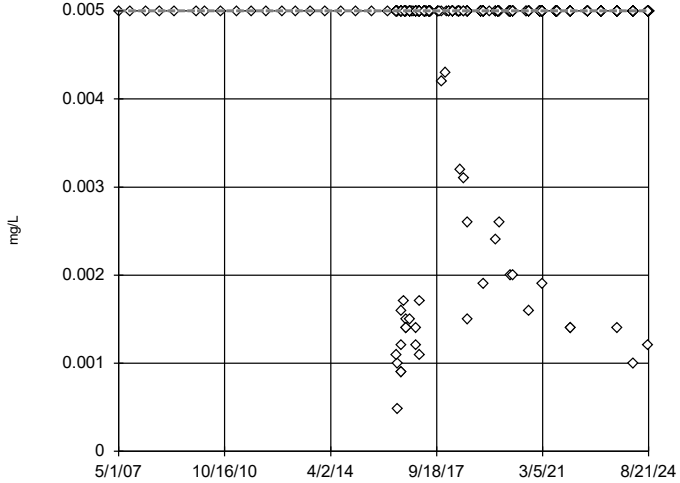
No outliers found.
Tukey's method selected by user.

High cutoff = 11.19, low cutoff = 1.39, based on IQR multiplier of 3.

Constituent: pH Analysis Run 11/4/2024 3:44 PM View: Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Tukey's Outlier Screening, Pooled Background

YGWA-17S,YGWA-18I,YGWA-18S,YGWA-20S...



n = 477

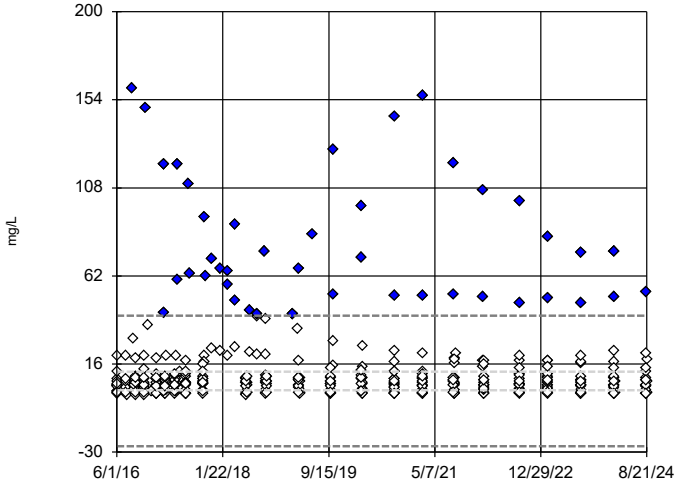
No outliers found.
Tukey's method selected by user.

The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Selenium Analysis Run 11/4/2024 3:44 PM View: Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Tukey's Outlier Screening, Pooled Background

YGWA-17S,YGWA-18I,YGWA-18S,YGWA-20S...



n = 425

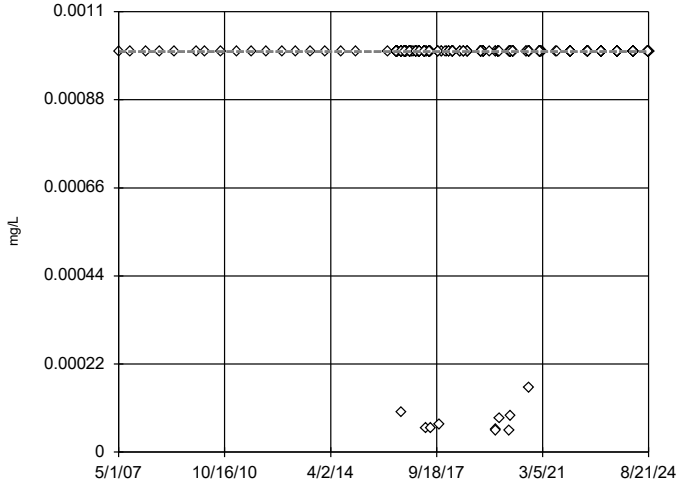
Outliers are drawn as solid.
Tukey's method selected by user.

High cutoff = 41.25, low cutoff = -27, based on IQR multiplier of 3.

Constituent: Sulfate Analysis Run 11/4/2024 3:44 PM View: Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Tukey's Outlier Screening, Pooled Background

YGWA-17S,YGWA-18I,YGWA-18S,YGWA-20S...



n = 413

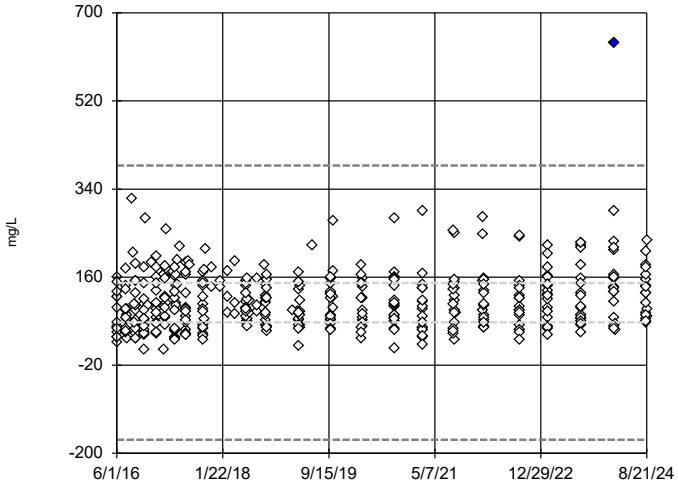
No outliers found.
Tukey's method selected by user.

The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Thallium Analysis Run 11/4/2024 3:44 PM View: Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Tukey's Outlier Screening, Pooled Background

YGWA-17S,YGWA-18I,YGWA-18S,YGWA-20S...



n = 425

Outlier is drawn as solid. Tukey's method select-ed by user.

High cutoff = 388, low cutoff = -172, based on IQR multiplier of 3.

Constituent: Total Dissolved Solids Analysis Run 11/4/2024 3:44 PM View: Upgradient Wells Screening

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

FIGURE D.

Appendix III Trend Tests - Upgradient Wells - Significant Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 11/4/2024, 3:52 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	YGWA-39 (bg)	0.01793	115	81	Yes	20	5	n/a	0.01	NP
Boron (mg/L)	YGWA-40 (bg)	-0.01202	-131	-81	Yes	20	0	n/a	0.01	NP
Boron (mg/L)	YGWA-5D (bg)	0.0007069	99	98	Yes	23	26.09	n/a	0.01	NP
Calcium (mg/L)	YGWA-17S (bg)	0.1465	186	98	Yes	23	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-18S (bg)	-0.06725	-171	-98	Yes	23	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-39 (bg)	2.49	121	81	Yes	20	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-5D (bg)	-1.034	-107	-98	Yes	23	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-5I (bg)	0.06991	145	98	Yes	23	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-47 (bg)	-0.8737	-132	-81	Yes	20	5	n/a	0.01	NP
Calcium (mg/L)	GWA-2 (bg)	2.258	92	81	Yes	20	5	n/a	0.01	NP
Calcium (mg/L)	YGWA-1D (bg)	0.5198	135	98	Yes	23	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-1I (bg)	-0.07033	-126	-98	Yes	23	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-3I (bg)	0.478	103	98	Yes	23	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-17S (bg)	0.914	205	98	Yes	23	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-18I (bg)	0.1003	131	98	Yes	23	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-20S (bg)	0.09204	163	98	Yes	23	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-40 (bg)	0.2393	106	81	Yes	20	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-5D (bg)	-0.5475	-187	-98	Yes	23	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-47 (bg)	-0.3342	-132	-81	Yes	20	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)	-0.0326	-128	-98	Yes	23	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-3I (bg)	-0.0226	-105	-98	Yes	23	0	n/a	0.01	NP
Fluoride (mg/L)	YGWA-3D (bg)	-0.01072	-141	-124	Yes	27	3.704	n/a	0.01	NP
pH (S.U.)	YGWA-18S (bg)	-0.0383	-183	-124	Yes	27	0	n/a	0.01	NP
pH (S.U.)	YGWA-21I (bg)	0.08208	149	124	Yes	27	0	n/a	0.01	NP
pH (S.U.)	YGWA-39 (bg)	-0.1431	-122	-98	Yes	23	0	n/a	0.01	NP
pH (S.U.)	GWA-2 (bg)	-0.04422	-250	-184	Yes	35	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18I (bg)	-0.09033	-116	-98	Yes	23	21.74	n/a	0.01	NP
Sulfate (mg/L)	YGWA-39 (bg)	-2.451	-142	-81	Yes	20	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-40 (bg)	-5.801	-141	-81	Yes	20	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5D (bg)	-2.152	-197	-98	Yes	23	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5I (bg)	0.0842	177	98	Yes	23	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-47 (bg)	-10.68	-149	-81	Yes	20	0	n/a	0.01	NP
Sulfate (mg/L)	GWA-2 (bg)	9.755	89	81	Yes	20	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-1D (bg)	0.8848	191	98	Yes	23	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-2I (bg)	1.44	132	98	Yes	23	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3D (bg)	0.2355	132	98	Yes	23	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3I (bg)	0.8717	133	98	Yes	23	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-21I (bg)	9.422	118	98	Yes	23	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-39 (bg)	25.35	110	81	Yes	20	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-47 (bg)	-9.336	-108	-81	Yes	20	0	n/a	0.01	NP

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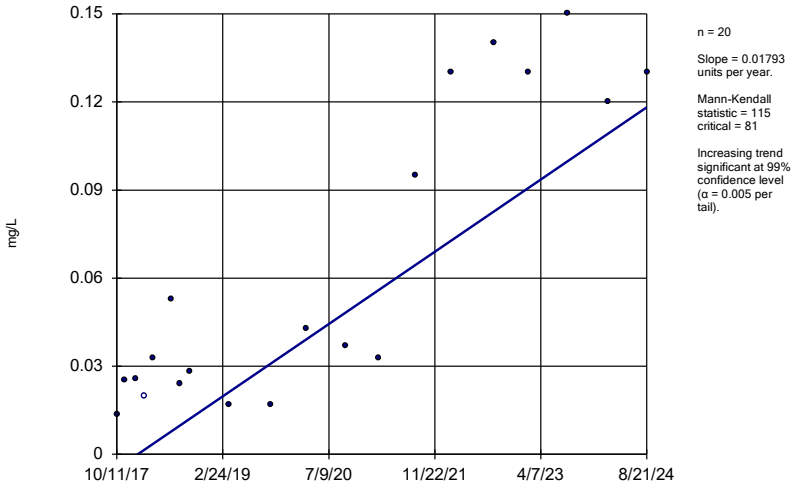
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-39 (bg)



n = 20

Slope = 0.01793 units per year.

Mann-Kendall statistic = 115
critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/4/2024 3:50 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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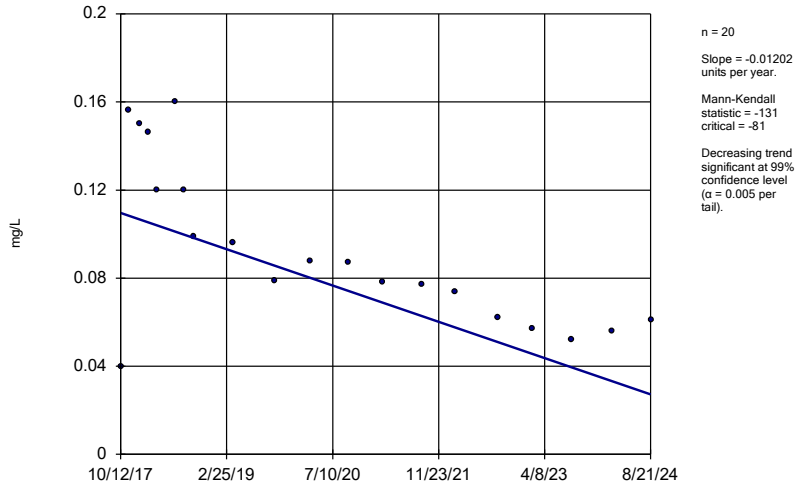
Sen's Slope Estimator

YGWA-40 (bg)



n = 20

Slope = -0.01202 units per year.

Mann-Kendall statistic = -131
critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/4/2024 3:50 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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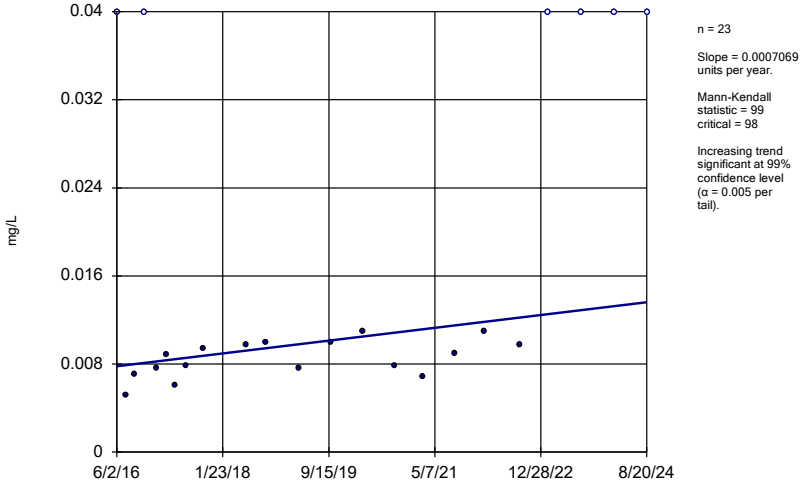
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5D (bg)



n = 23

Slope = 0.0007069 units per year.

Mann-Kendall statistic = 99
critical = 98

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/4/2024 3:50 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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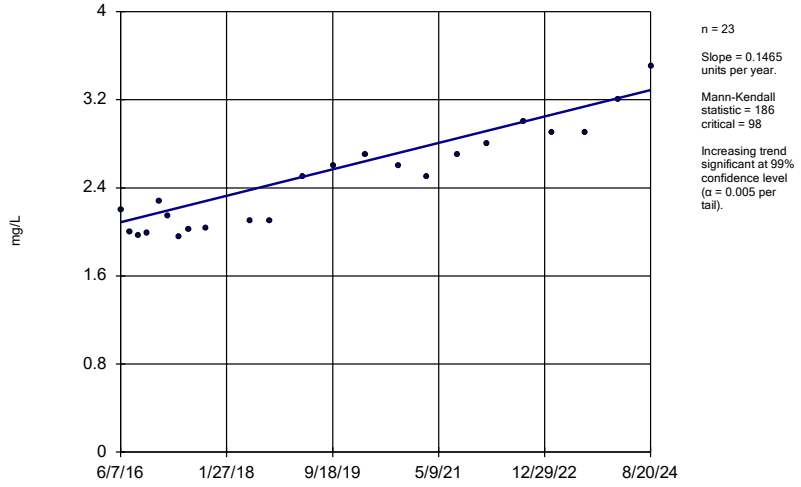
Sen's Slope Estimator

YGWA-17S (bg)



n = 23

Slope = 0.1465 units per year.

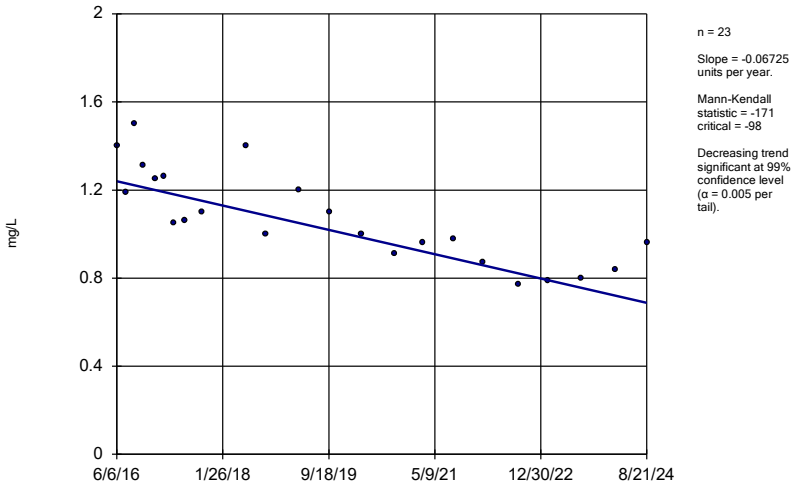
Mann-Kendall statistic = 186
critical = 98

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 11/4/2024 3:50 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-18S (bg)



n = 23

Slope = -0.06725 units per year.

Mann-Kendall statistic = -171
critical = -98

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 11/4/2024 3:50 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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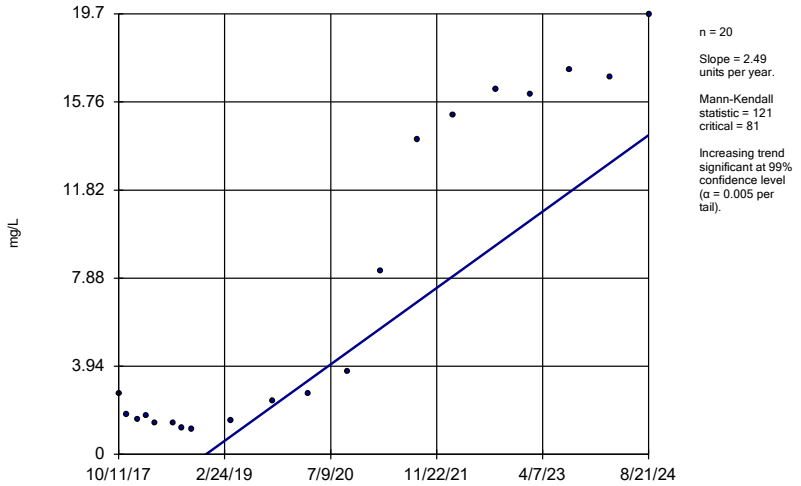
Sen's Slope Estimator

YGWA-39 (bg)



n = 20

Slope = 2.49 units per year.

Mann-Kendall statistic = 121
critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 11/4/2024 3:50 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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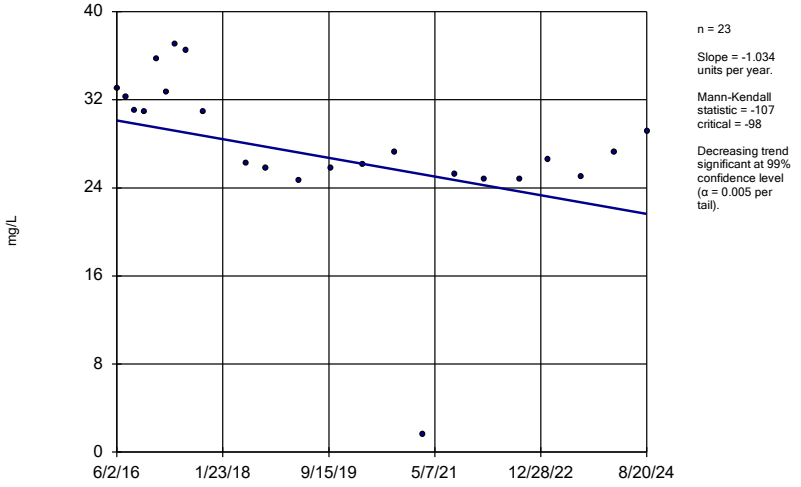
Sen's Slope Estimator

YGWA-5D (bg)



n = 23

Slope = -1.034 units per year.

Mann-Kendall statistic = -107
critical = -98

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 11/4/2024 3:50 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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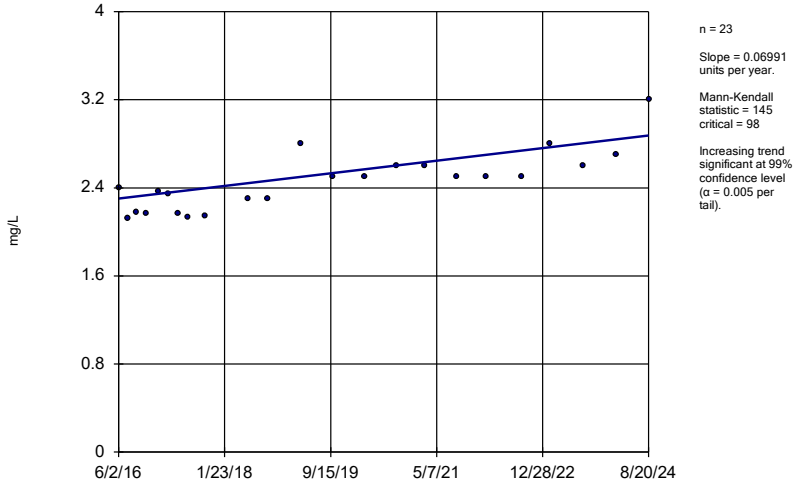
Sen's Slope Estimator

YGWA-5I (bg)



n = 23

Slope = 0.06991 units per year.

Mann-Kendall statistic = 145
critical = 98

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 11/4/2024 3:50 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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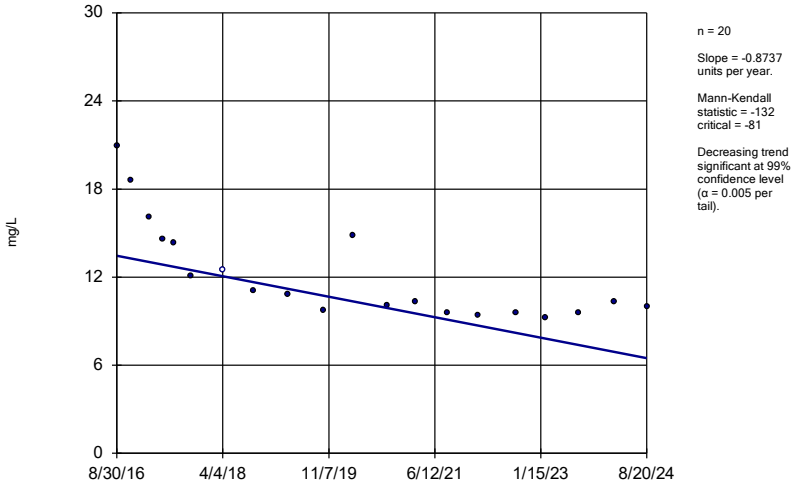
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-47 (bg)



n = 20

Slope = -0.8737 units per year.

Mann-Kendall statistic = -132
critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 11/4/2024 3:50 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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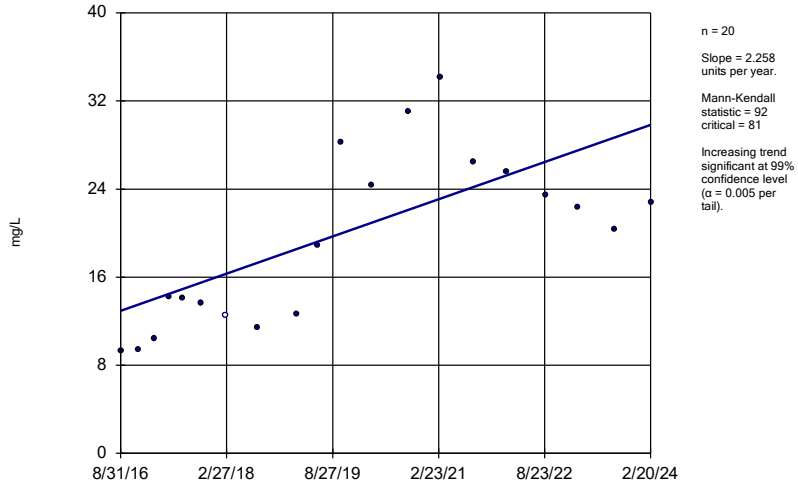
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-2 (bg)



n = 20

Slope = 2.258 units per year.

Mann-Kendall statistic = 92
critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 11/4/2024 3:50 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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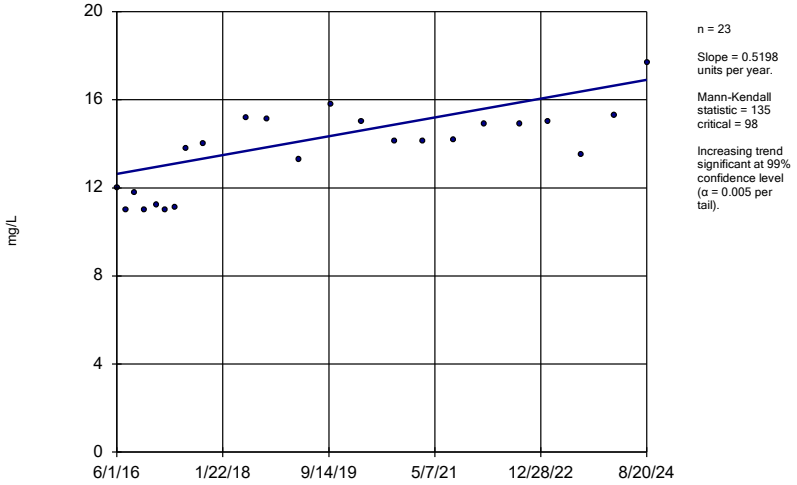
Sen's Slope Estimator

YGWA-1D (bg)



n = 23

Slope = 0.5198 units per year.

Mann-Kendall statistic = 135
critical = 98

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 11/4/2024 3:50 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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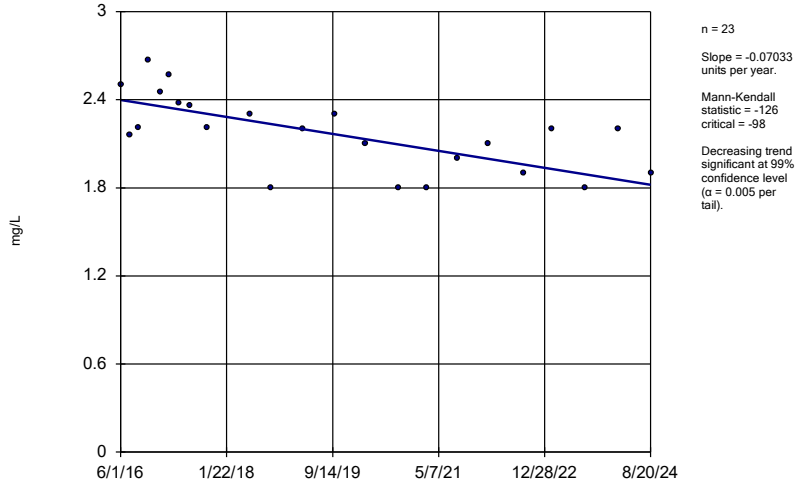
Sen's Slope Estimator

YGWA-1I (bg)



n = 23

Slope = -0.07033 units per year.

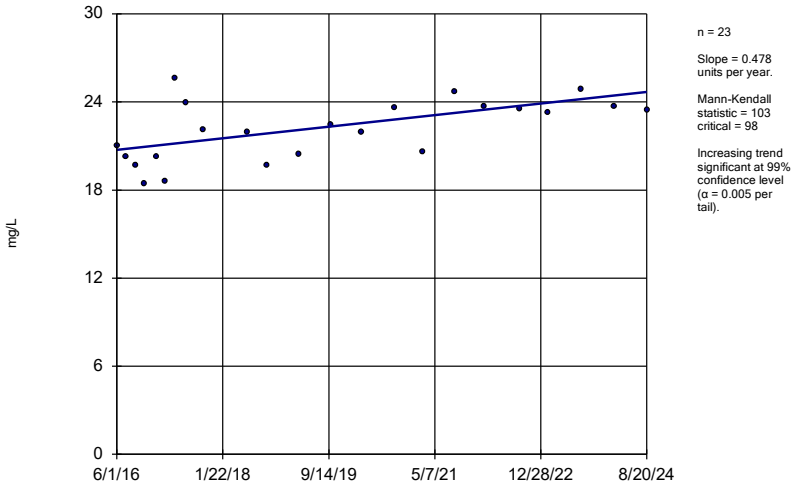
Mann-Kendall statistic = -126
critical = -98

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 11/4/2024 3:50 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-3I (bg)



n = 23

Slope = 0.478 units per year.

Mann-Kendall statistic = 103 critical = 98

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 11/4/2024 3:50 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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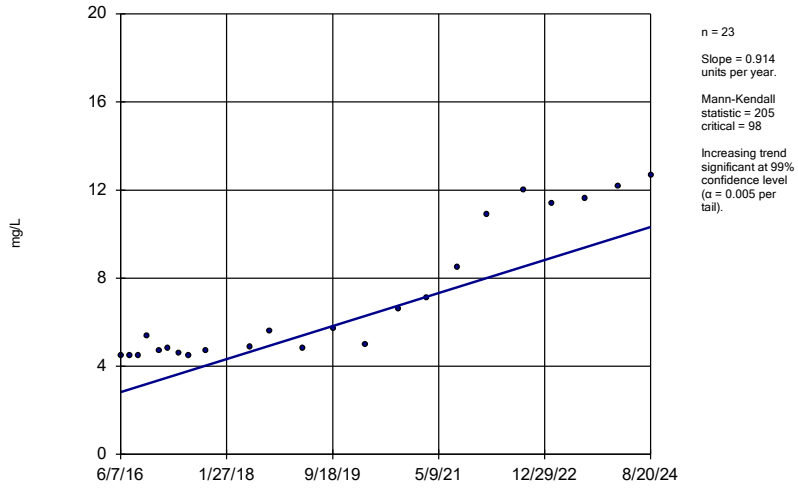
Sen's Slope Estimator

YGWA-17S (bg)



n = 23

Slope = 0.914 units per year.

Mann-Kendall statistic = 205 critical = 98

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/4/2024 3:50 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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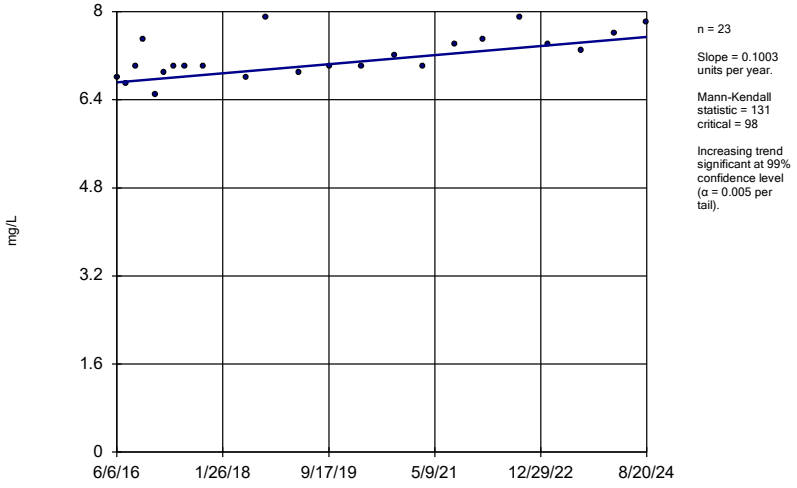
Sen's Slope Estimator

YGWA-18I (bg)



n = 23

Slope = 0.1003 units per year.

Mann-Kendall statistic = 131 critical = 98

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/4/2024 3:50 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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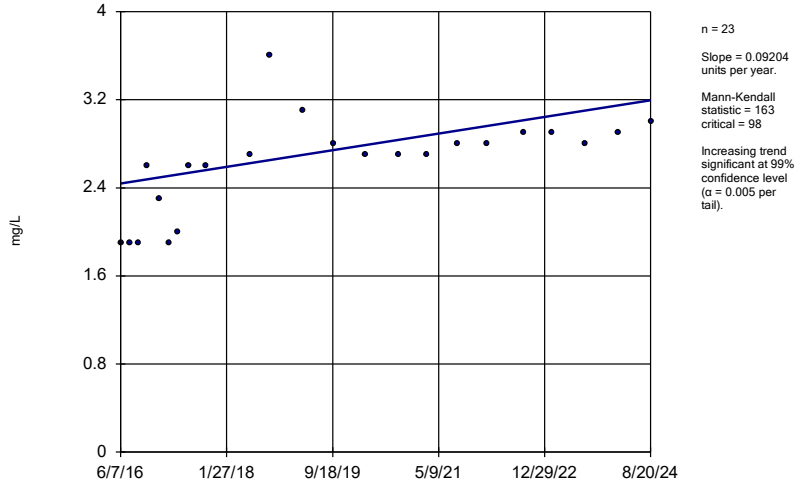
Sen's Slope Estimator

YGWA-20S (bg)



n = 23

Slope = 0.09204 units per year.

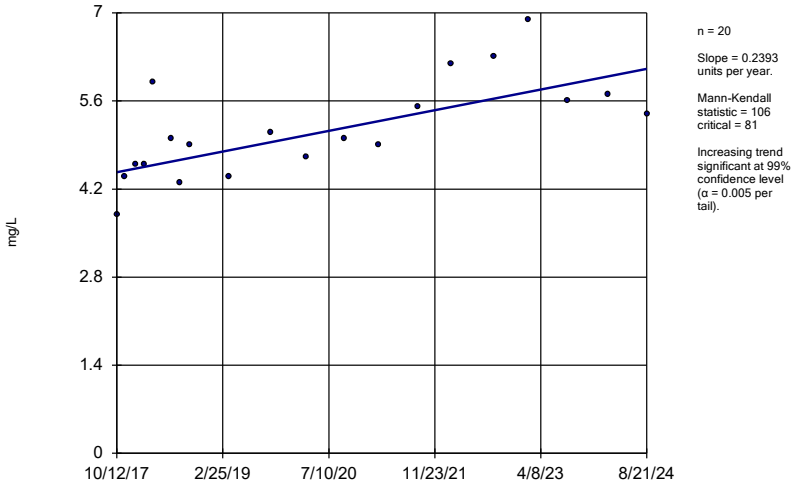
Mann-Kendall statistic = 163 critical = 98

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/4/2024 3:50 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-40 (bg)



n = 20

Slope = 0.2393 units per year.

Mann-Kendall statistic = 106
critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/4/2024 3:50 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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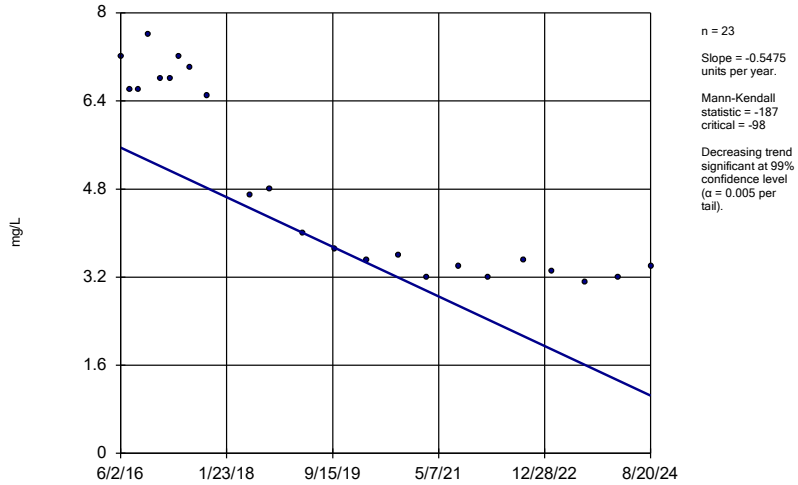
Sen's Slope Estimator

YGWA-5D (bg)



n = 23

Slope = -0.5475 units per year.

Mann-Kendall statistic = -187
critical = -98

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/4/2024 3:50 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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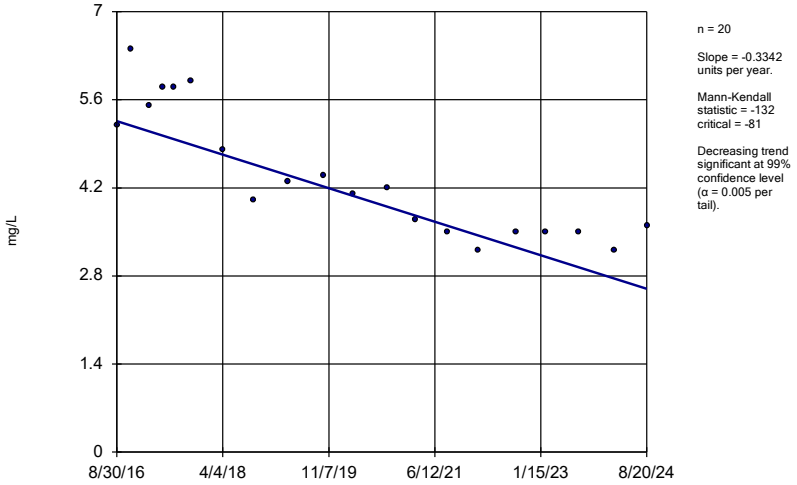
Sen's Slope Estimator

YGWA-47 (bg)



n = 20

Slope = -0.3342 units per year.

Mann-Kendall statistic = -132
critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/4/2024 3:50 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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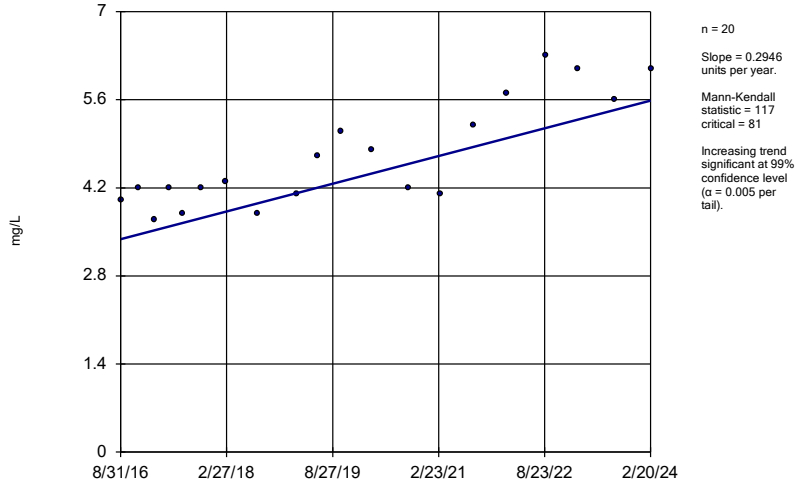
Sen's Slope Estimator

GWA-2 (bg)



n = 20

Slope = 0.2946 units per year.

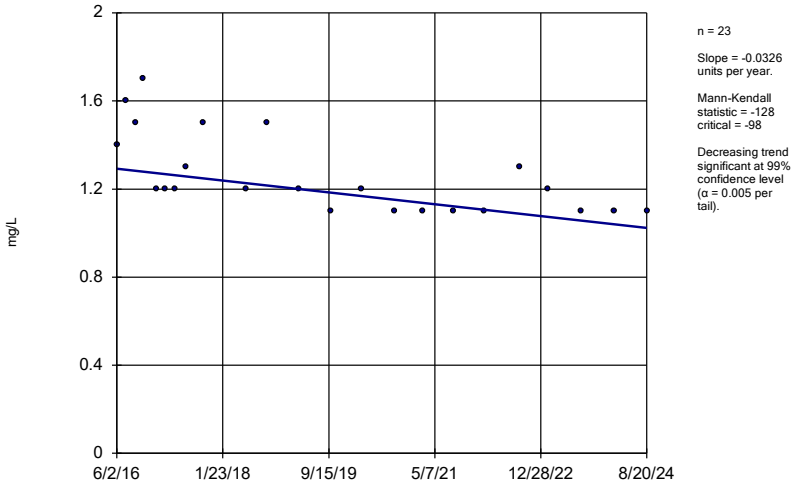
Mann-Kendall statistic = 117
critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/4/2024 3:50 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-3D (bg)



n = 23

Slope = -0.0326 units per year.

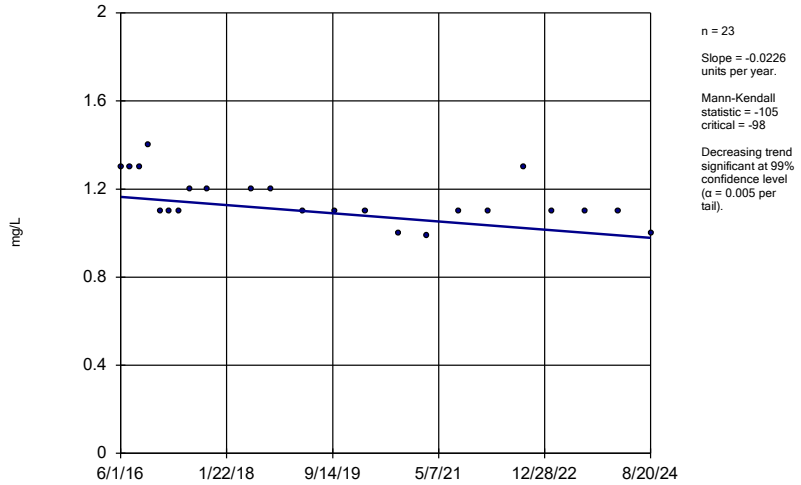
Mann-Kendall statistic = -128
critical = -98

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/4/2024 3:50 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-3I (bg)



n = 23

Slope = -0.0226 units per year.

Mann-Kendall statistic = -105
critical = -98

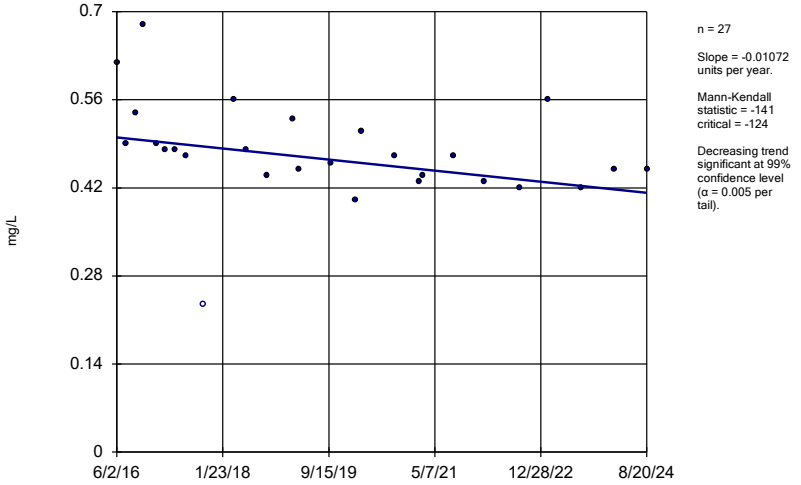
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/4/2024 3:50 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3D (bg)



n = 27

Slope = -0.01072 units per year.

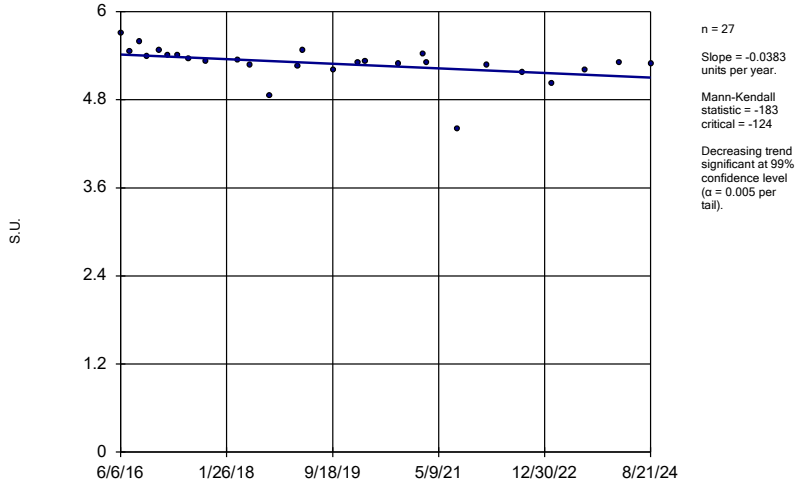
Mann-Kendall statistic = -141
critical = -124

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 11/4/2024 3:51 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-18S (bg)



n = 27

Slope = -0.0383 units per year.

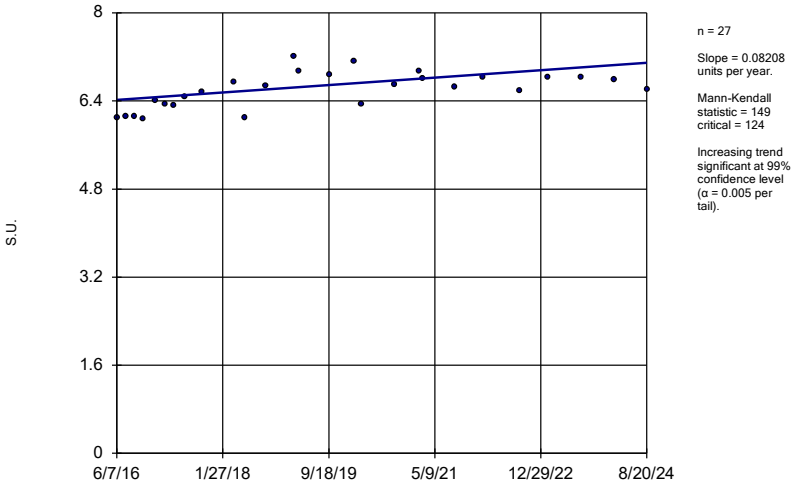
Mann-Kendall statistic = -183
critical = -124

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 11/4/2024 3:51 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-21I (bg)



n = 27

Slope = 0.08208 units per year.

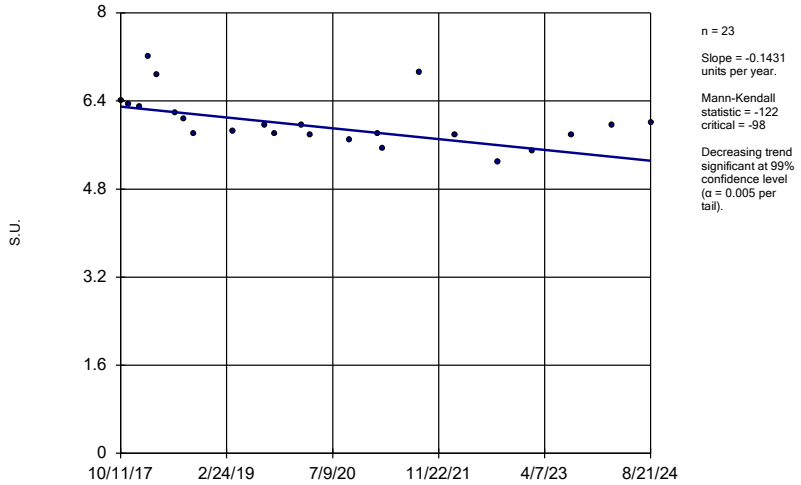
Mann-Kendall statistic = 149
critical = 124

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 11/4/2024 3:51 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-39 (bg)



n = 23

Slope = -0.1431 units per year.

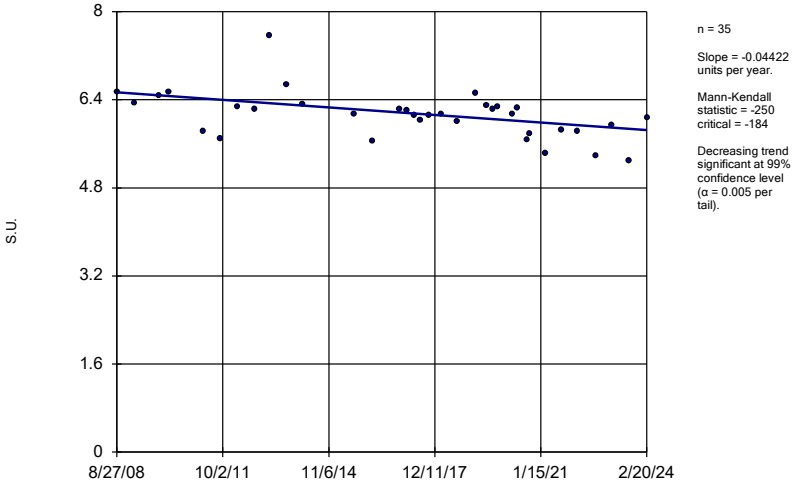
Mann-Kendall statistic = -122
critical = -98

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 11/4/2024 3:51 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

GWA-2 (bg)



n = 35

Slope = -0.04422 units per year.

Mann-Kendall statistic = -250
critical = -184

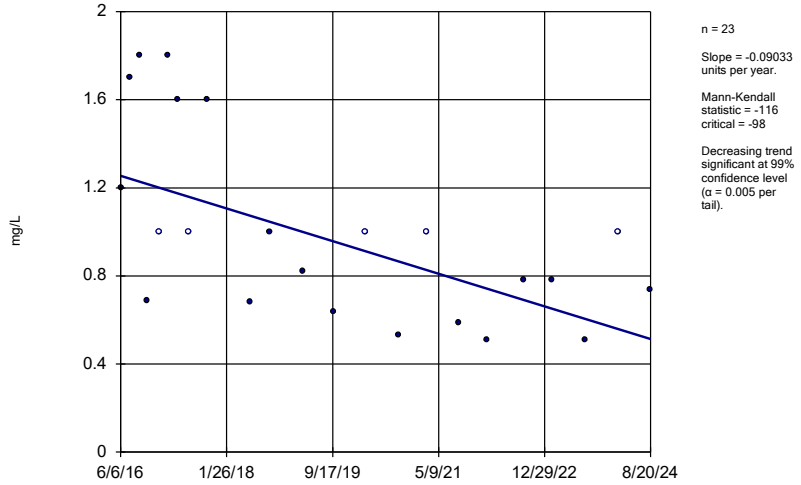
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 11/4/2024 3:51 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18I (bg)



n = 23

Slope = -0.09033 units per year.

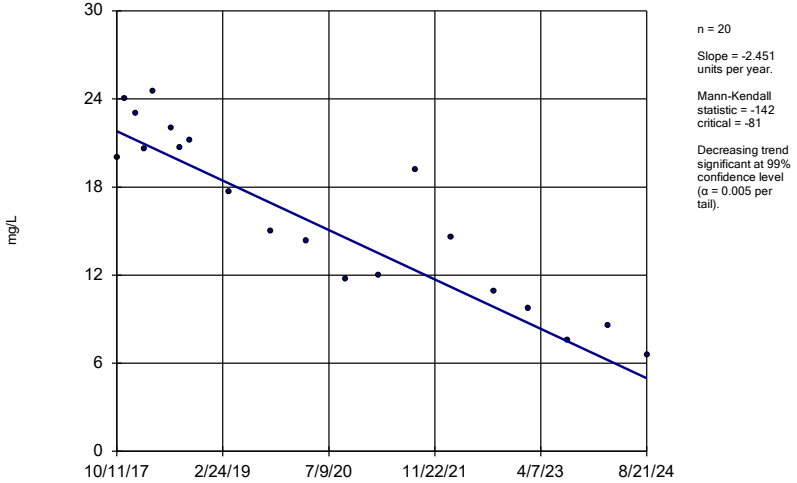
Mann-Kendall statistic = -116
critical = -98

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 11/4/2024 3:51 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-39 (bg)



n = 20

Slope = -2.451 units per year.

Mann-Kendall statistic = -142
critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 11/4/2024 3:51 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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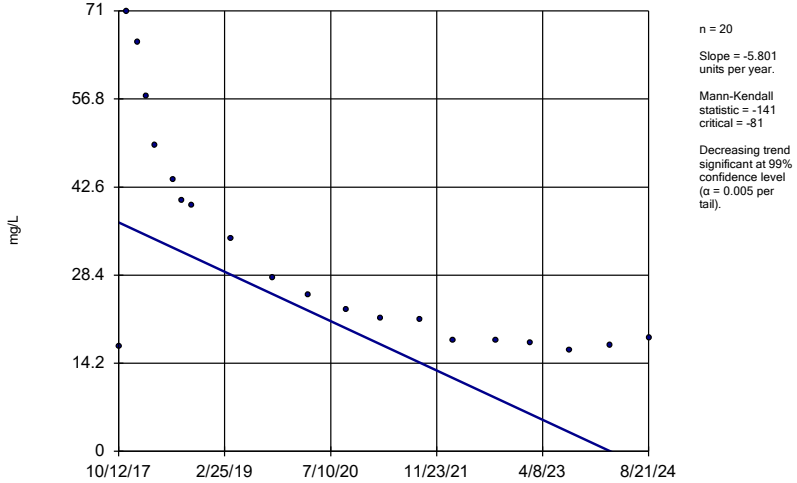
Sen's Slope Estimator

YGWA-40 (bg)



n = 20

Slope = -5.801 units per year.

Mann-Kendall statistic = -141
critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 11/4/2024 3:51 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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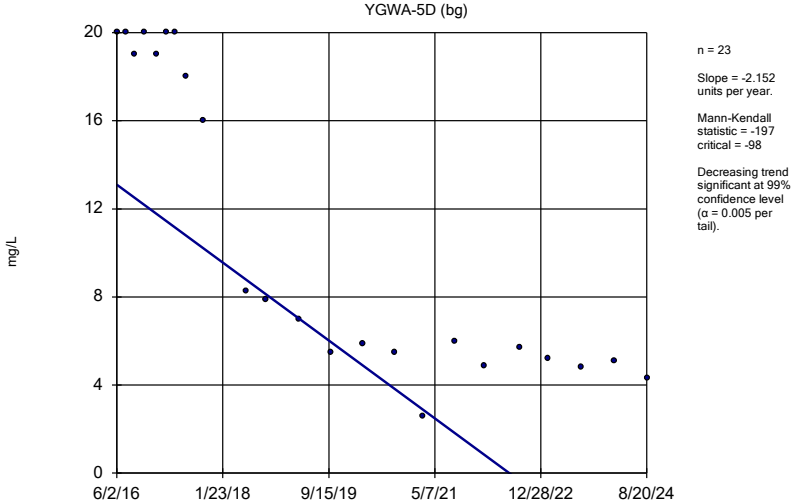
Sen's Slope Estimator

YGWA-5D (bg)



n = 23

Slope = -2.152 units per year.

Mann-Kendall statistic = -197
critical = -98

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 11/4/2024 3:51 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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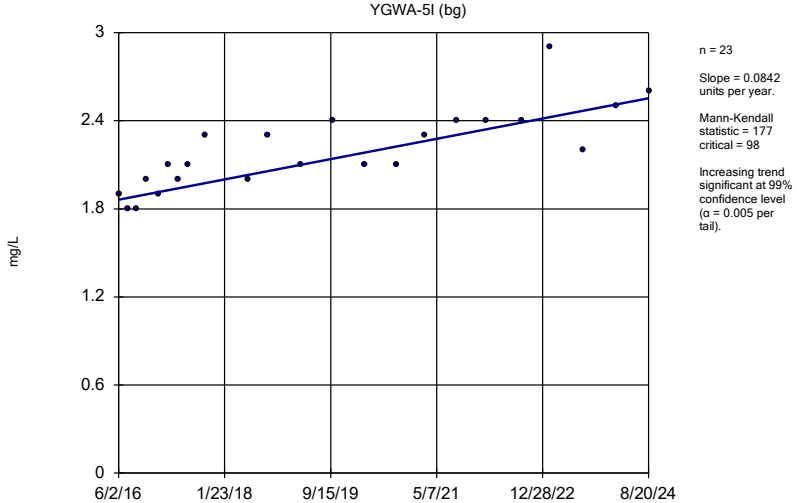
Sen's Slope Estimator

YGWA-5I (bg)



n = 23

Slope = 0.0842 units per year.

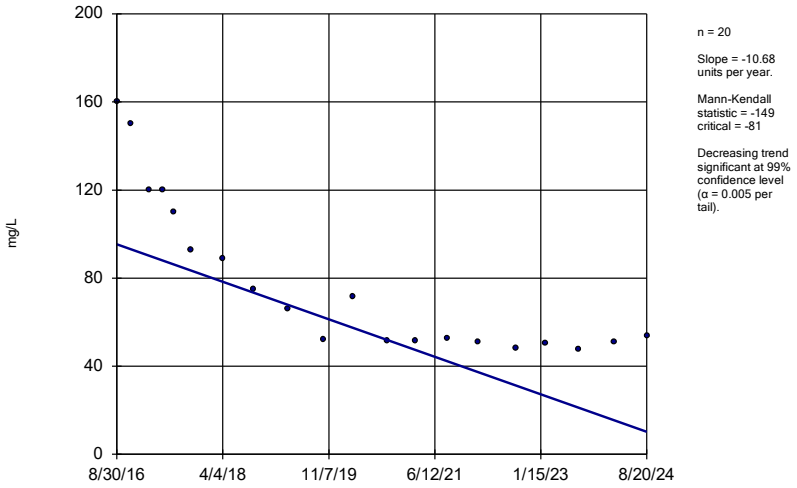
Mann-Kendall statistic = 177
critical = 98

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 11/4/2024 3:51 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-47 (bg)



n = 20

Slope = -10.68 units per year.

Mann-Kendall statistic = -149
critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 11/4/2024 3:51 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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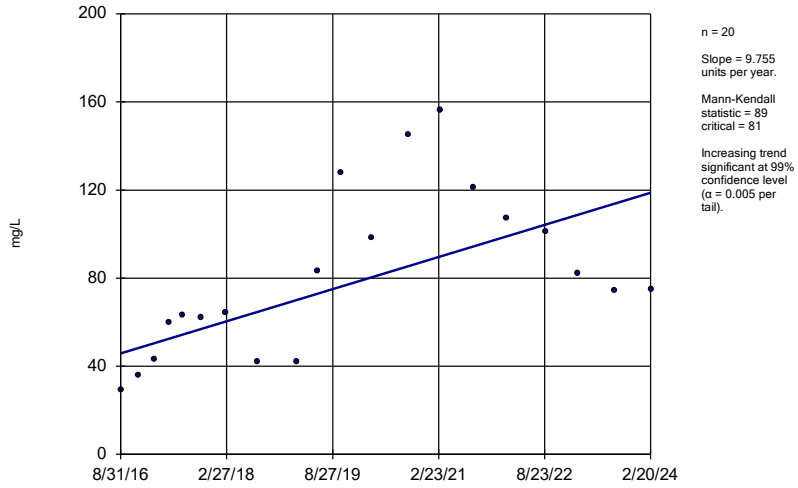
Sen's Slope Estimator

GWA-2 (bg)



n = 20

Slope = 9.755 units per year.

Mann-Kendall statistic = 89
critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 11/4/2024 3:51 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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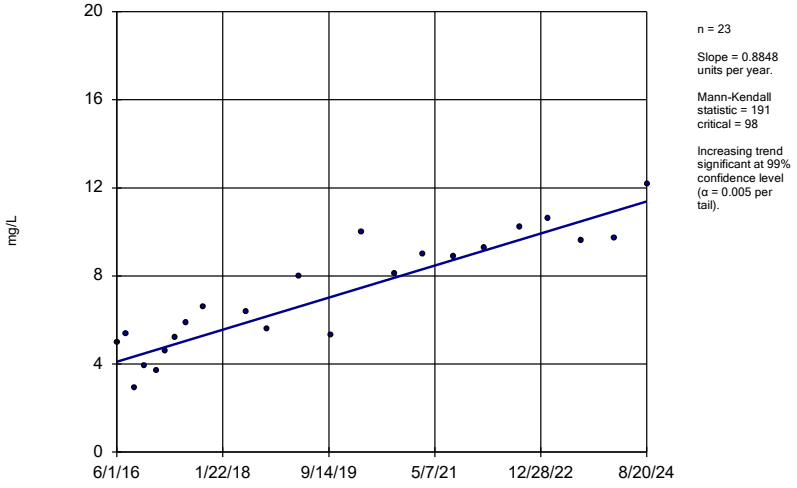
Sen's Slope Estimator

YGWA-1D (bg)



n = 23

Slope = 0.8848 units per year.

Mann-Kendall statistic = 191
critical = 98

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 11/4/2024 3:51 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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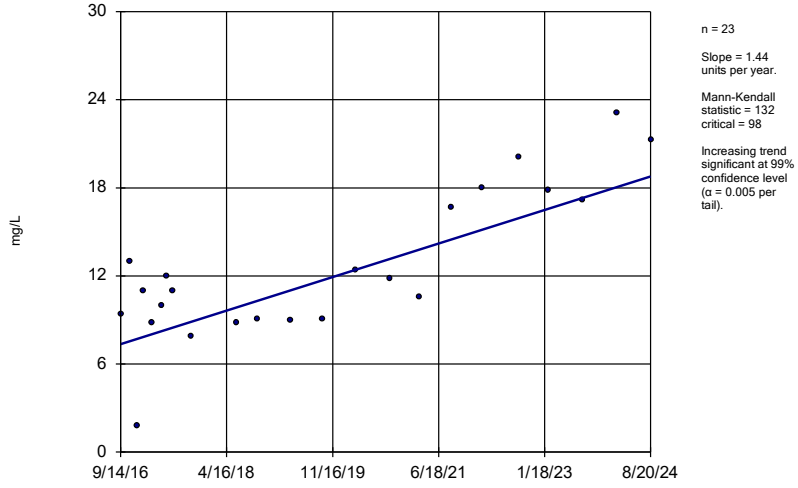
Sen's Slope Estimator

YGWA-2I (bg)



n = 23

Slope = 1.44 units per year.

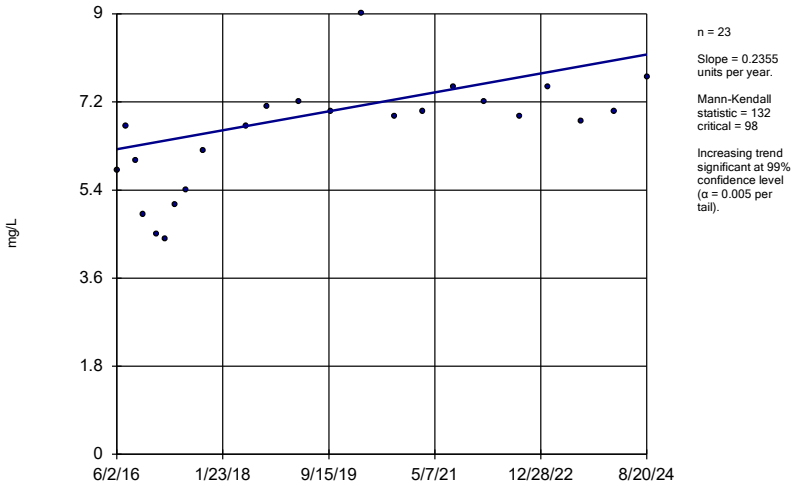
Mann-Kendall statistic = 132
critical = 98

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 11/4/2024 3:51 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-3D (bg)



n = 23

Slope = 0.2355 units per year.

Mann-Kendall statistic = 132
critical = 98

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 11/4/2024 3:51 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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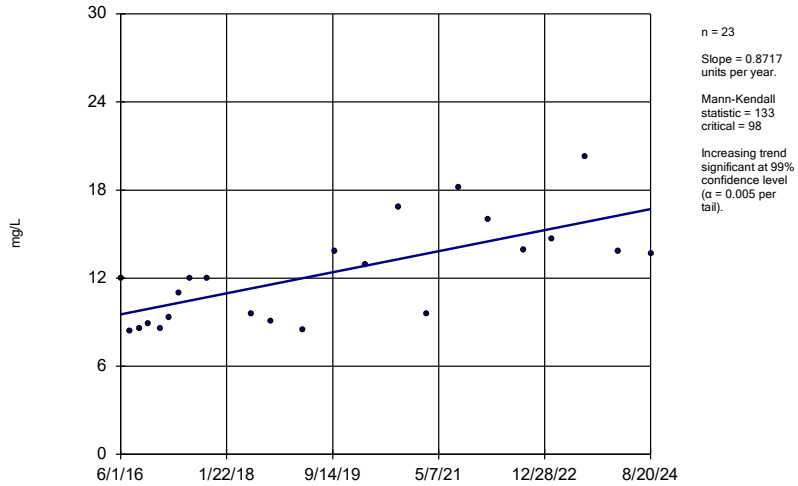
Sen's Slope Estimator

YGWA-3I (bg)



n = 23

Slope = 0.8717 units per year.

Mann-Kendall statistic = 133
critical = 98

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 11/4/2024 3:51 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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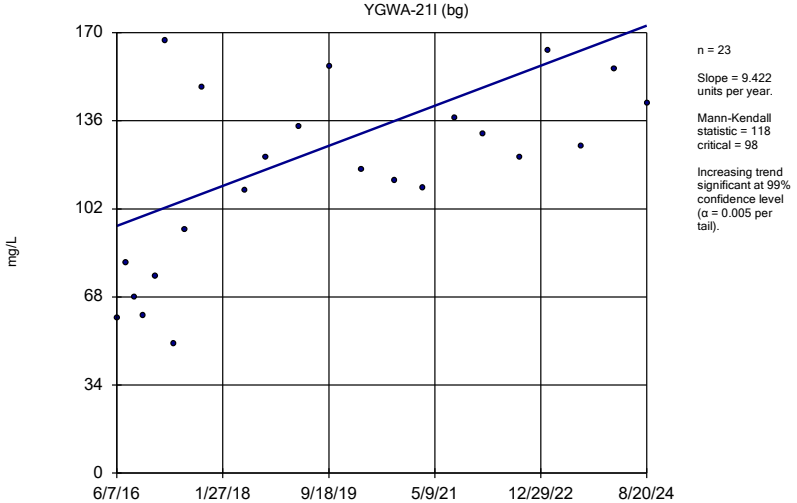
Sen's Slope Estimator

YGWA-21I (bg)



n = 23

Slope = 9.422 units per year.

Mann-Kendall statistic = 118
critical = 98

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 11/4/2024 3:51 PM View: Appendix III - Upgradient Well
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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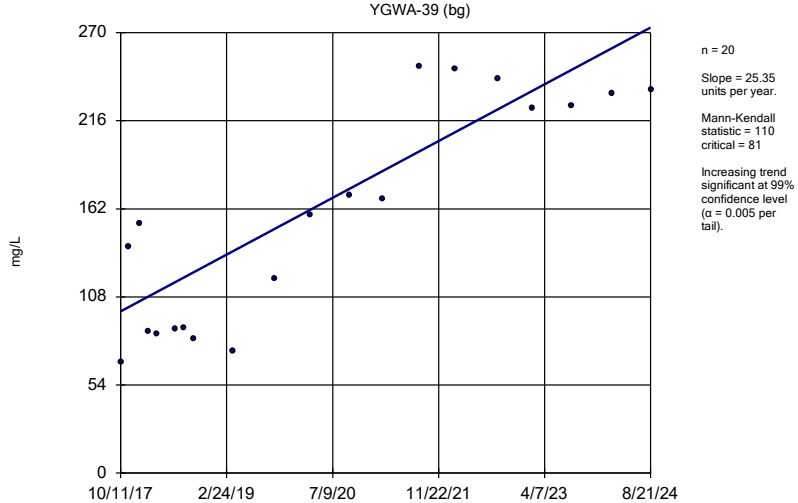
Sen's Slope Estimator

YGWA-39 (bg)



n = 20

Slope = 25.35 units per year.

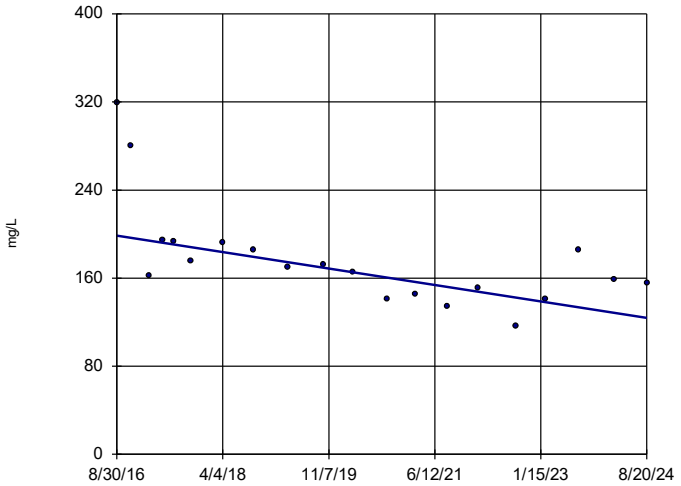
Mann-Kendall statistic = 110
critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 11/4/2024 3:51 PM View: Appendix III - Upgradient Well
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-47 (bg)



n = 20

Slope = -9.336 units per year.

Mann-Kendall statistic = -108
critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 11/4/2024 3:51 PM View: Appendix III - Upgradient Well

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Appendix IV Trend Tests - Upgradient Wells - Significant Results

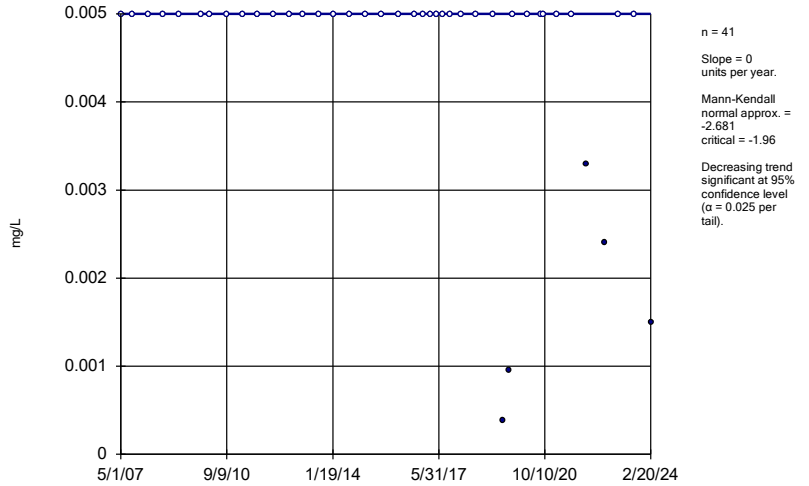
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 10/23/2024, 11:08 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Lithium (mg/L)	YGWA-18I (bg)	-0.000215	-154	-90	Yes	26	7.692	n/a	0.05	NP
Lithium (mg/L)	YGWA-39 (bg)	0.0009005	122	71	Yes	22	4.545	n/a	0.05	NP
Lithium (mg/L)	YGWA-47 (bg)	-0.000209	-119	-66	Yes	21	0	n/a	0.05	NP
Lithium (mg/L)	YGWA-1D (bg)	-0.0007084	-110	-90	Yes	26	0	n/a	0.05	NP
Lithium (mg/L)	YGWA-3D (bg)	0.0005738	158	90	Yes	26	0	n/a	0.05	NP
Lithium (mg/L)	YGWA-3I (bg)	0.001358	190	90	Yes	26	0	n/a	0.05	NP
Molybdenum (mg/L)	YGWA-5D (bg)	-0.0004224	-115	-71	Yes	22	13.64	n/a	0.05	NP
Molybdenum (mg/L)	YGWA-1I (bg)	-0.000784	-216	-90	Yes	26	3.846	n/a	0.05	NP
Molybdenum (mg/L)	YGWA-2I (bg)	0.0004044	137	90	Yes	26	0	n/a	0.05	NP
Molybdenum (mg/L)	YGWA-3D (bg)	0.0003871	166	90	Yes	26	0	n/a	0.05	NP
Molybdenum (mg/L)	YGWA-3I (bg)	0.0004966	102	90	Yes	26	0	n/a	0.05	NP
Selenium (mg/L)	YGWA-17S (bg)	0	124	85	Yes	25	76	n/a	0.05	NP
Arsenic (mg/L)	GWA-2 (bg)	0	-2.681	-1.96	Yes	41	87.8	n/a	0.05	NP
Barium (mg/L)	YGWA-17S (bg)	0.0005801	208	85	Yes	25	0	n/a	0.05	NP
Barium (mg/L)	YGWA-18I (bg)	-0.001001	-236	-90	Yes	26	0	n/a	0.05	NP
Barium (mg/L)	YGWA-18S (bg)	-0.0006772	-137	-90	Yes	26	0	n/a	0.05	NP
Barium (mg/L)	YGWA-20S (bg)	-0.0003692	-133	-90	Yes	26	0	n/a	0.05	NP
Barium (mg/L)	YGWA-39 (bg)	0.0043	150	71	Yes	22	9.091	n/a	0.05	NP
Barium (mg/L)	YGWA-40 (bg)	-0.002482	-103	-71	Yes	22	0	n/a	0.05	NP
Barium (mg/L)	YGWA-4I (bg)	-0.0002834	-107	-90	Yes	26	0	n/a	0.05	NP
Barium (mg/L)	YGWA-5D (bg)	-0.0001426	-92	-90	Yes	26	3.846	n/a	0.05	NP
Barium (mg/L)	YGWA-2I (bg)	-0.0002032	-134	-90	Yes	26	3.846	n/a	0.05	NP
Barium (mg/L)	YGWA-3D (bg)	-0.0005074	-250	-90	Yes	26	3.846	n/a	0.05	NP
Beryllium (mg/L)	YGWA-18S (bg)	-0.000006801	-91	-90	Yes	26	42.31	n/a	0.05	NP
Cobalt (mg/L)	YGWA-39 (bg)	-0.000669	-92	-71	Yes	22	40.91	n/a	0.05	NP
Cobalt (mg/L)	YGWA-47 (bg)	-0.0007522	-144	-66	Yes	21	4.762	n/a	0.05	NP
Cobalt (mg/L)	YGWA-30I (bg)	-0.003971	-310	-90	Yes	26	0	n/a	0.05	NP
Combined Radium 226 + 228 (pCi/L)	YGWA-21I (bg)	0.1046	112	90	Yes	26	0	n/a	0.05	NP
Combined Radium 226 + 228 (pCi/L)	YGWA-40 (bg)	-0.1233	-105	-71	Yes	22	0	n/a	0.05	NP
Combined Radium 226 + 228 (pCi/L)	YGWA-5D (bg)	-0.1935	-108	-90	Yes	26	0	n/a	0.05	NP
Fluoride (mg/L)	YGWA-39 (bg)	0	-79	-76	Yes	23	65.22	n/a	0.05	NP
Fluoride (mg/L)	YGWA-3D (bg)	-0.01072	-141	-96	Yes	27	3.704	n/a	0.05	NP

Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-2 (bg)



n = 41

Slope = 0
units per year.

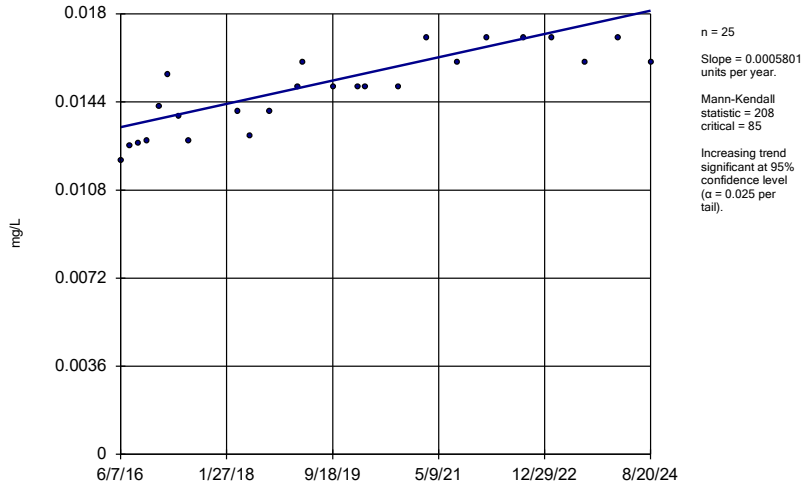
Mann-Kendall
normal approx. =
-2.681
critical = -1.96

Decreasing trend
significant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Arsenic Analysis Run 10/23/2024 11:04 AM View: Appendix IV - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-17S (bg)



n = 25

Slope = 0.0005801
units per year.

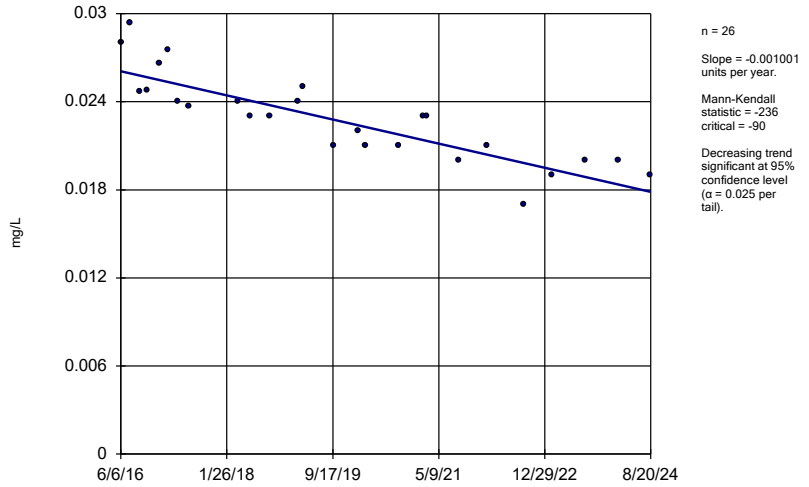
Mann-Kendall
statistic = 208
critical = 85

Increasing trend
significant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Barium Analysis Run 10/23/2024 11:04 AM View: Appendix IV - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-18I (bg)



n = 26

Slope = -0.001001
units per year.

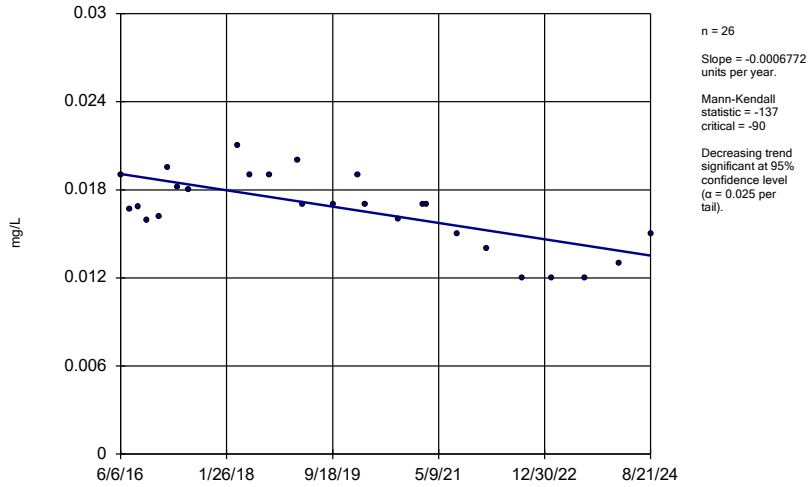
Mann-Kendall
statistic = -236
critical = -90

Decreasing trend
significant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Barium Analysis Run 10/23/2024 11:04 AM View: Appendix IV - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-18S (bg)



n = 26

Slope = -0.0006772
units per year.

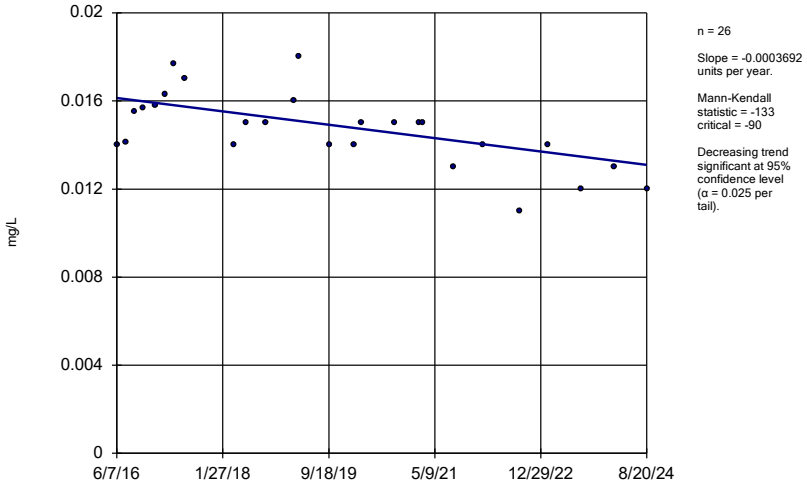
Mann-Kendall
statistic = -137
critical = -90

Decreasing trend
significant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Barium Analysis Run 10/23/2024 11:04 AM View: Appendix IV - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-20S (bg)



n = 26

Slope = -0.0003692 units per year.

Mann-Kendall statistic = -133
critical = -90

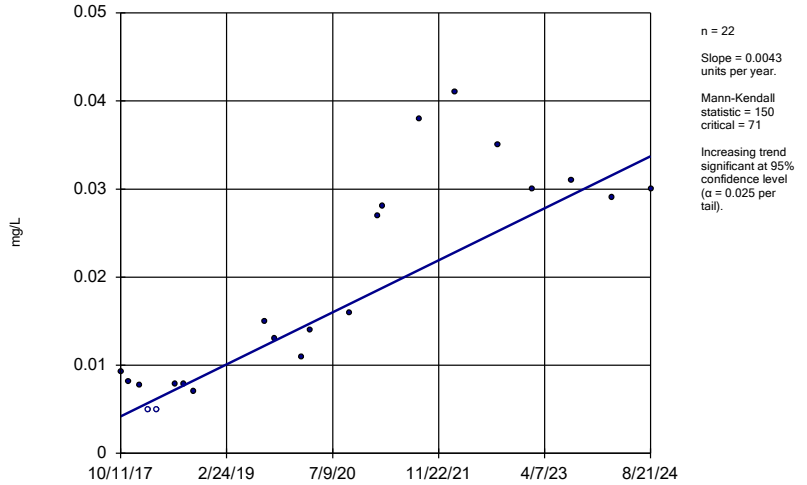
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Barium Analysis Run 10/23/2024 11:04 AM View: Appendix IV - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-39 (bg)



n = 22

Slope = 0.0043 units per year.

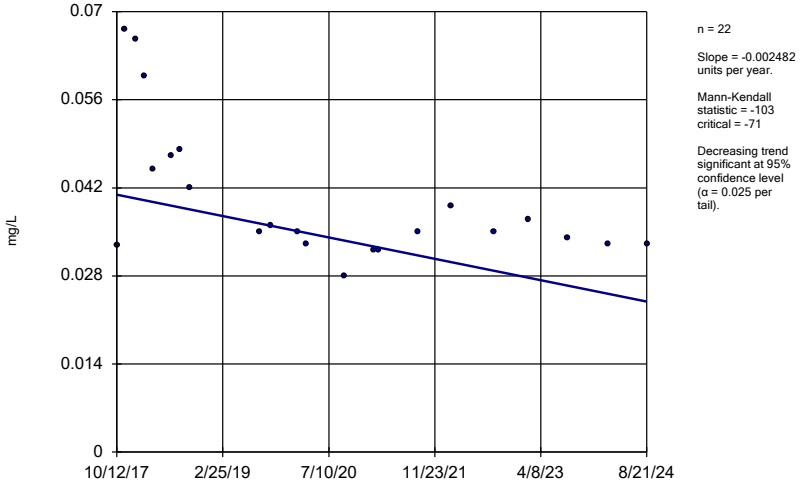
Mann-Kendall statistic = 150
critical = 71

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Barium Analysis Run 10/23/2024 11:04 AM View: Appendix IV - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-40 (bg)



n = 22

Slope = -0.002482 units per year.

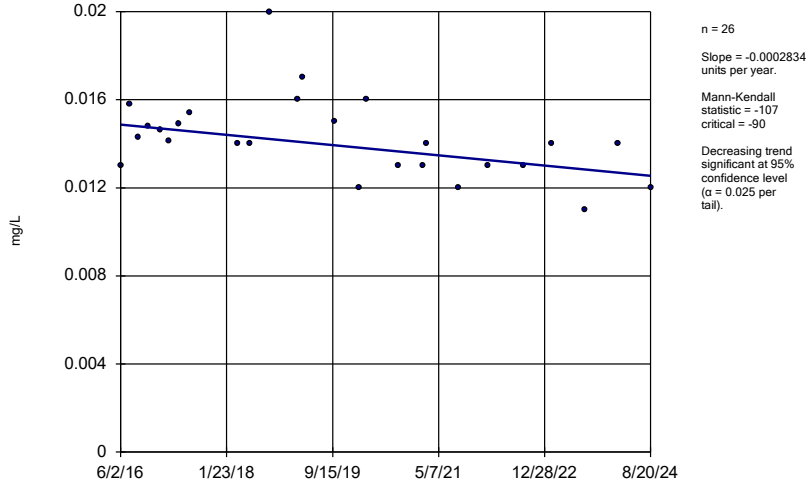
Mann-Kendall statistic = -103
critical = -71

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Barium Analysis Run 10/23/2024 11:04 AM View: Appendix IV - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-4I (bg)



n = 26

Slope = -0.0002834 units per year.

Mann-Kendall statistic = -107
critical = -90

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Barium Analysis Run 10/23/2024 11:04 AM View: Appendix IV - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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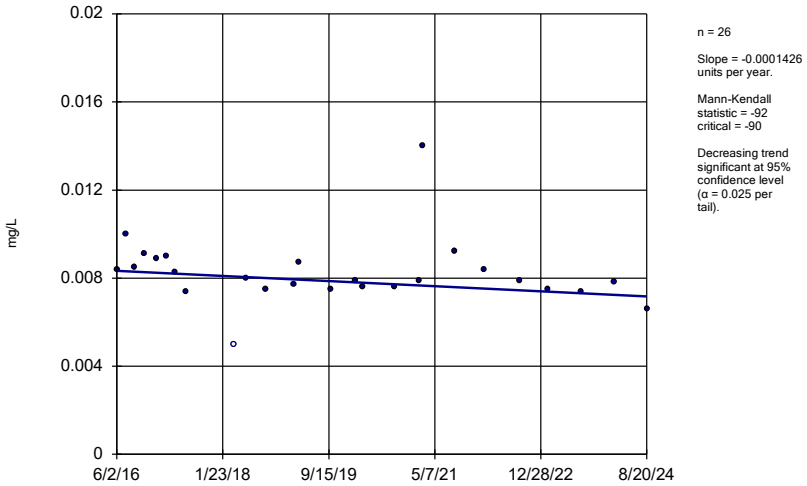
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5D (bg)



n = 26

Slope = -0.0001426 units per year.

Mann-Kendall statistic = -92
critical = -90

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Barium Analysis Run 10/23/2024 11:04 AM View: Appendix IV - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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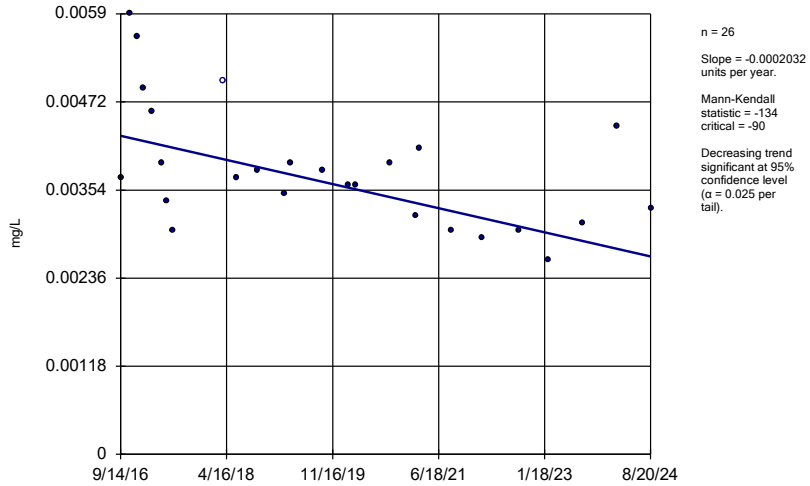
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-2I (bg)



n = 26

Slope = -0.0002032 units per year.

Mann-Kendall statistic = -134
critical = -90

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Barium Analysis Run 10/23/2024 11:04 AM View: Appendix IV - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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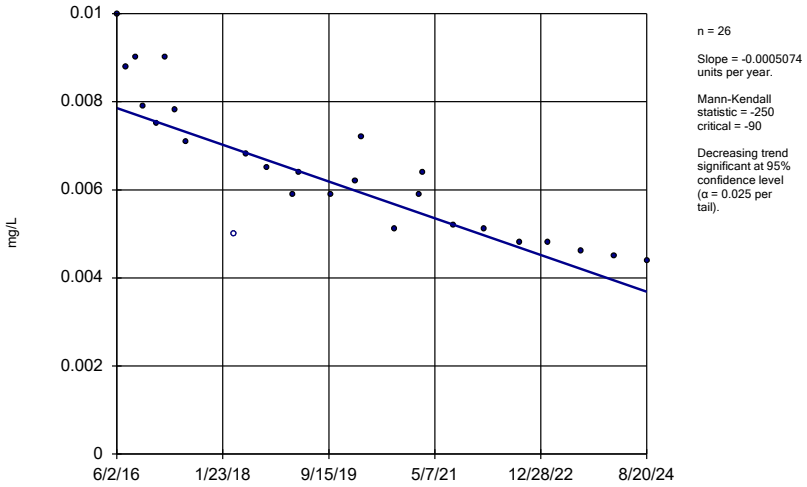
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3D (bg)



n = 26

Slope = -0.0005074 units per year.

Mann-Kendall statistic = -250
critical = -90

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Barium Analysis Run 10/23/2024 11:04 AM View: Appendix IV - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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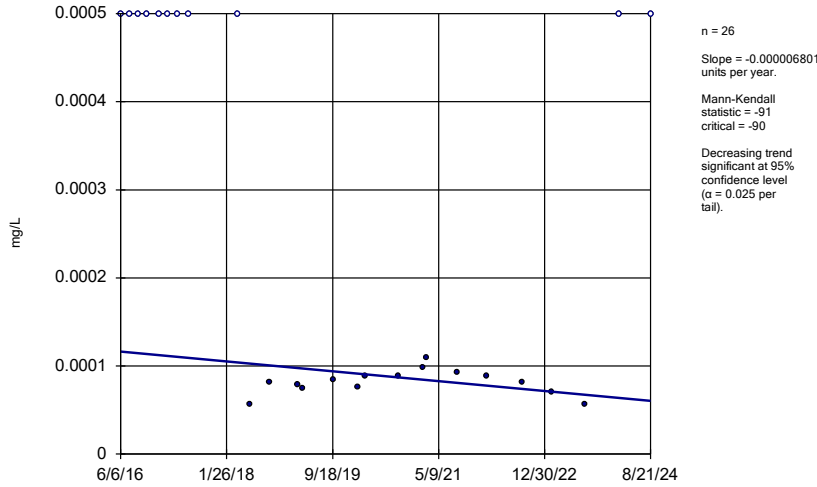
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18S (bg)



n = 26

Slope = -0.000006801 units per year.

Mann-Kendall statistic = -91
critical = -90

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Beryllium Analysis Run 10/23/2024 11:05 AM View: Appendix IV - Upgradient Wells Screenin
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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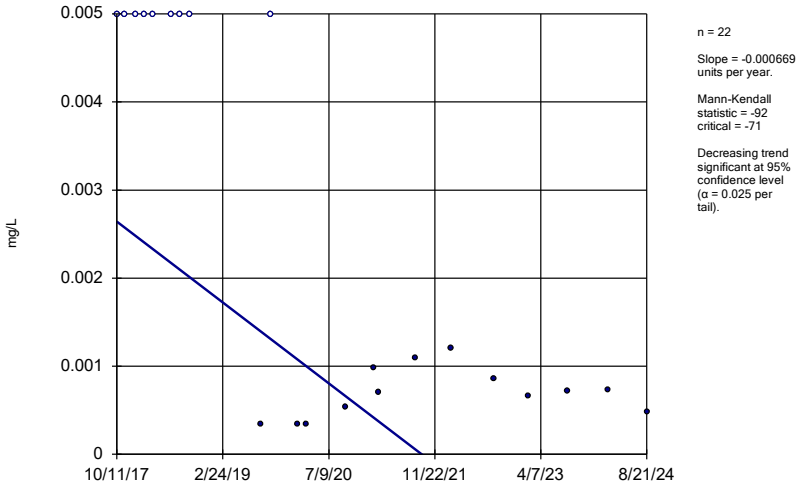
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-39 (bg)



n = 22

Slope = -0.000669 units per year.

Mann-Kendall statistic = -92
critical = -71

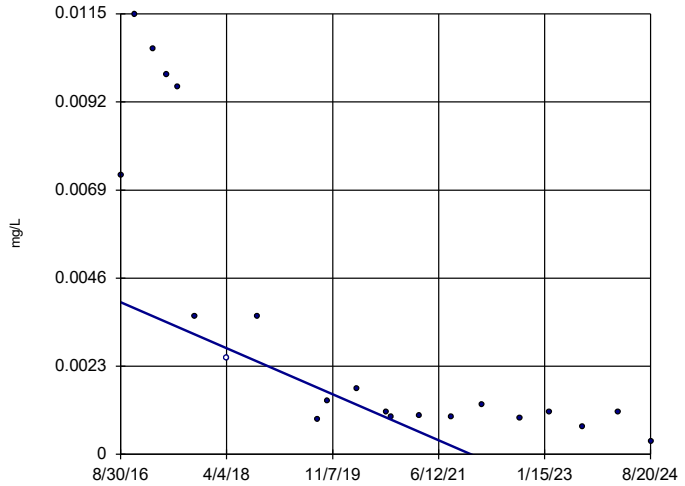
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 10/23/2024 11:05 AM View: Appendix IV - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-47 (bg)



n = 21

Slope = -0.0007522 units per year.

Mann-Kendall statistic = -144
critical = -66

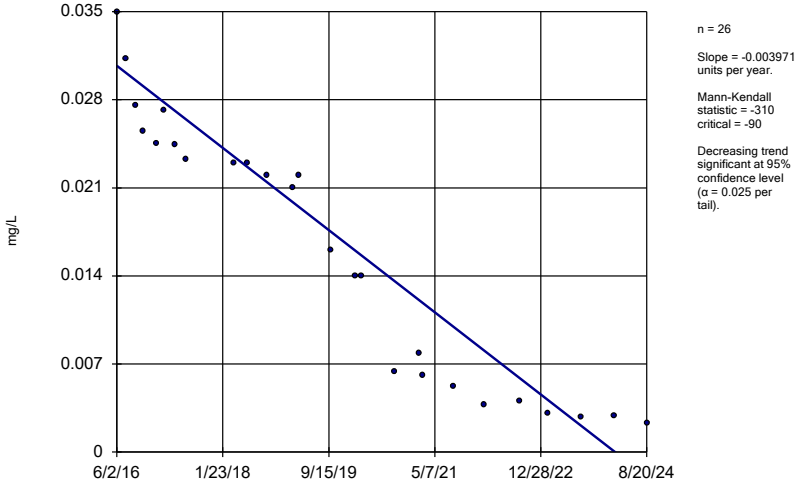
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 10/23/2024 11:05 AM View: Appendix IV - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-30I (bg)



n = 26

Slope = -0.003971 units per year.

Mann-Kendall statistic = -310
critical = -90

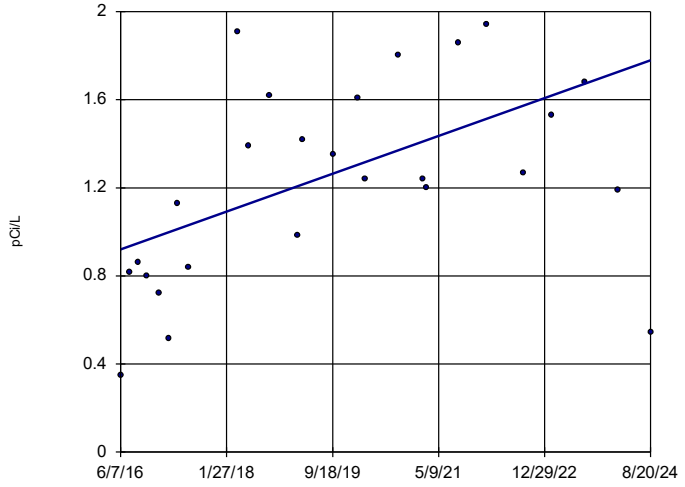
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 10/23/2024 11:05 AM View: Appendix IV - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-21I (bg)



n = 26

Slope = 0.1046 units per year.

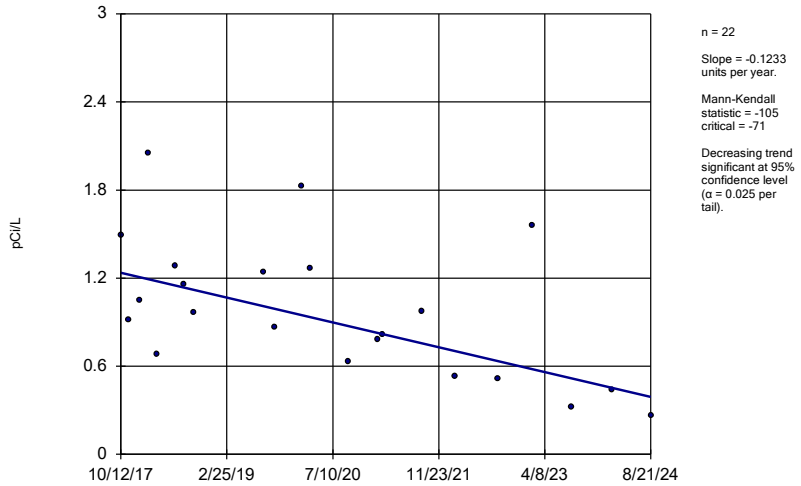
Mann-Kendall statistic = 112
critical = 90

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Combined Radium 226 + 228 Analysis Run 10/23/2024 11:05 AM View: Appendix IV - Upgra
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-40 (bg)



n = 22

Slope = -0.1233 units per year.

Mann-Kendall statistic = -105 critical = -71

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

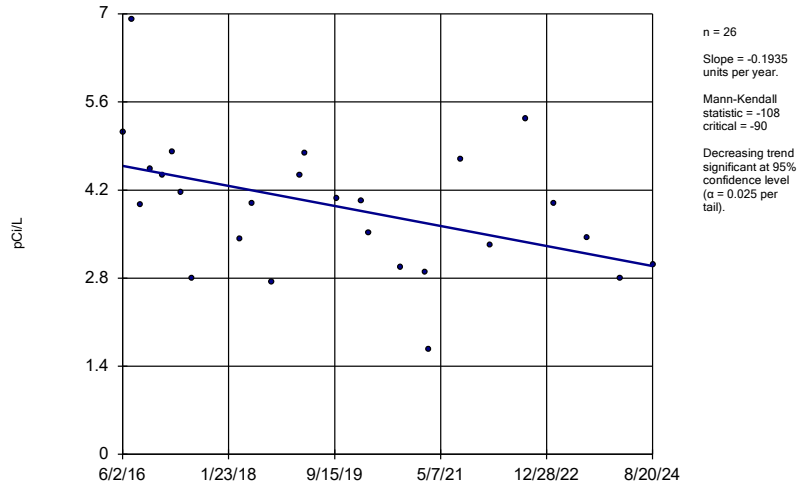
Constituent: Combined Radium 226 + 228 Analysis Run 10/23/2024 11:06 AM View: Appendix IV - Upgra

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-5D (bg)



n = 26

Slope = -0.1935 units per year.

Mann-Kendall statistic = -108 critical = -90

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Combined Radium 226 + 228 Analysis Run 10/23/2024 11:06 AM View: Appendix IV - Upgra

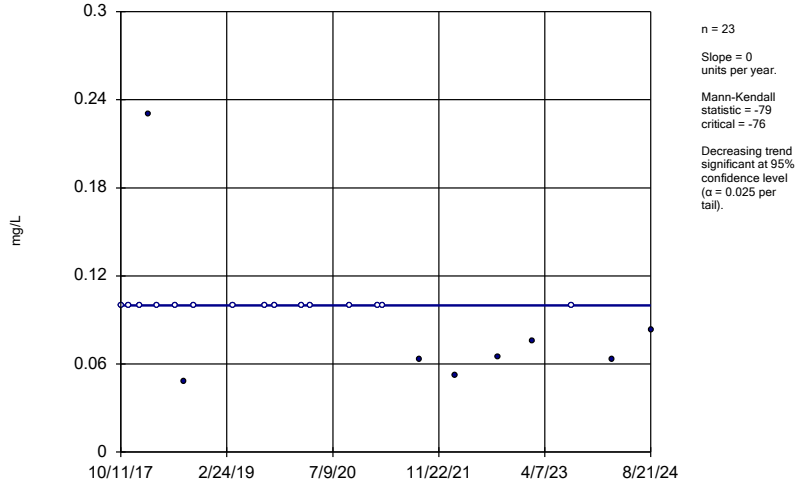
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-39 (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = -79 critical = -76

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Fluoride Analysis Run 10/23/2024 11:06 AM View: Appendix IV - Upgradient Wells Screening

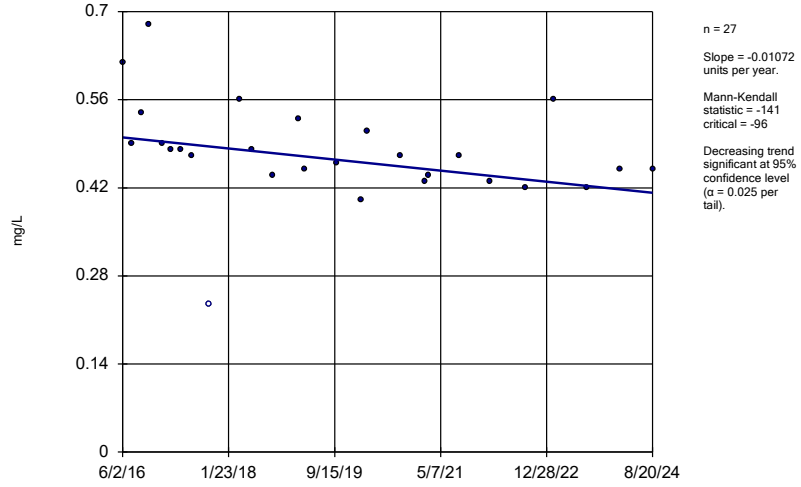
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3D (bg)



n = 27

Slope = -0.01072 units per year.

Mann-Kendall statistic = -141 critical = -96

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Fluoride Analysis Run 10/23/2024 11:06 AM View: Appendix IV - Upgradient Wells Screening

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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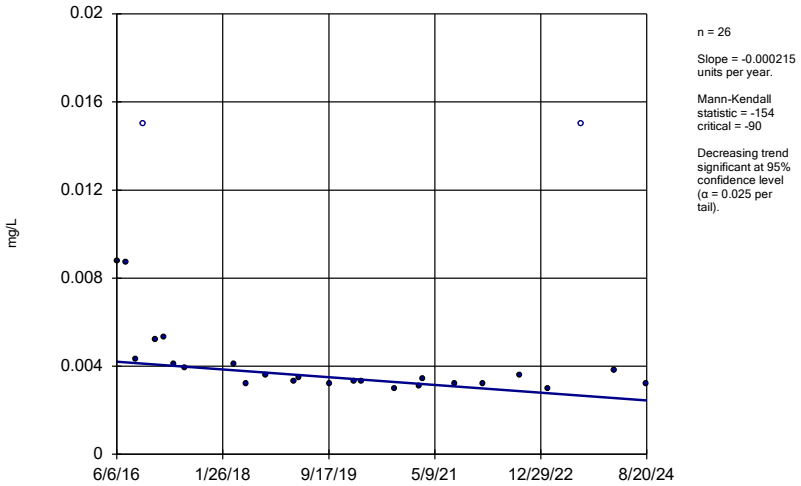
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18I (bg)



n = 26

Slope = -0.000215 units per year.

Mann-Kendall statistic = -154
critical = -90

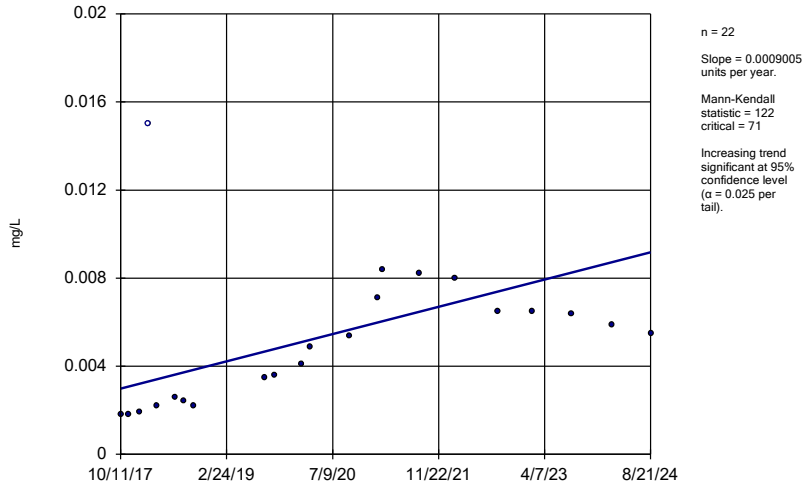
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 10/23/2024 11:06 AM View: Appendix IV - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-39 (bg)



n = 22

Slope = 0.0009005 units per year.

Mann-Kendall statistic = 122
critical = 71

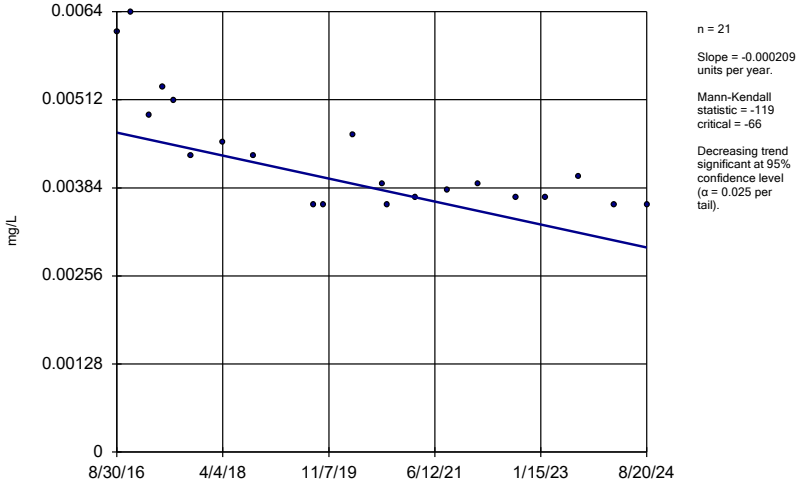
Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 10/23/2024 11:06 AM View: Appendix IV - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-47 (bg)



n = 21

Slope = -0.000209 units per year.

Mann-Kendall statistic = -119
critical = -66

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 10/23/2024 11:06 AM View: Appendix IV - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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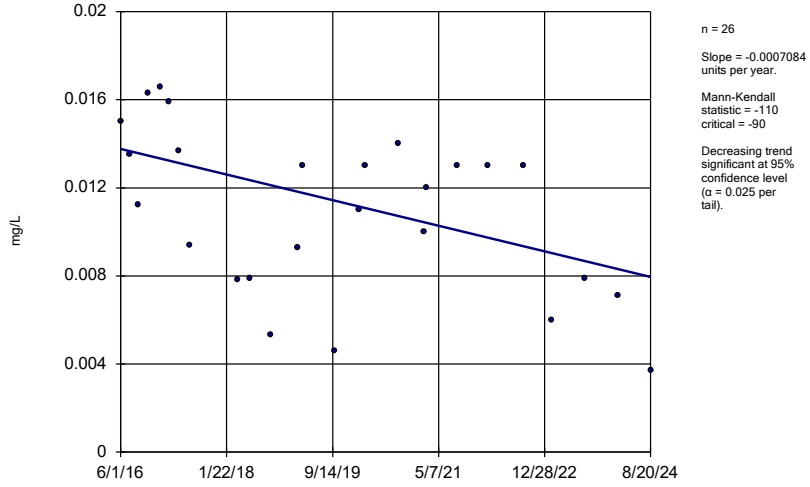
Sen's Slope Estimator

YGWA-1D (bg)



n = 26

Slope = -0.0007084 units per year.

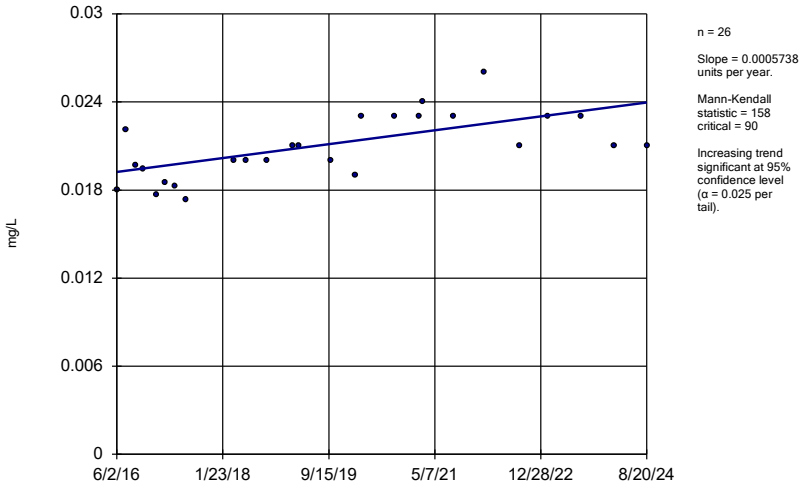
Mann-Kendall statistic = -110
critical = -90

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 10/23/2024 11:06 AM View: Appendix IV - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-3D (bg)



n = 26

Slope = 0.0005738 units per year.

Mann-Kendall statistic = 158
critical = 90

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 10/23/2024 11:06 AM View: Appendix IV - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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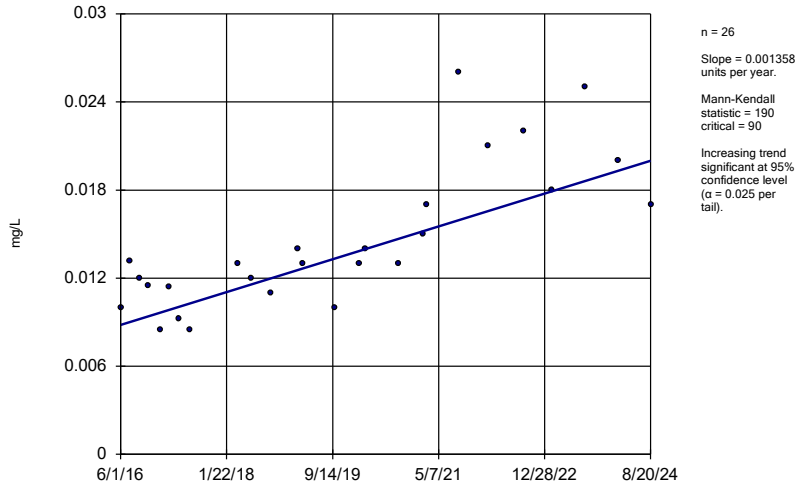
Sen's Slope Estimator

YGWA-3I (bg)



n = 26

Slope = 0.001358 units per year.

Mann-Kendall statistic = 190
critical = 90

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 10/23/2024 11:06 AM View: Appendix IV - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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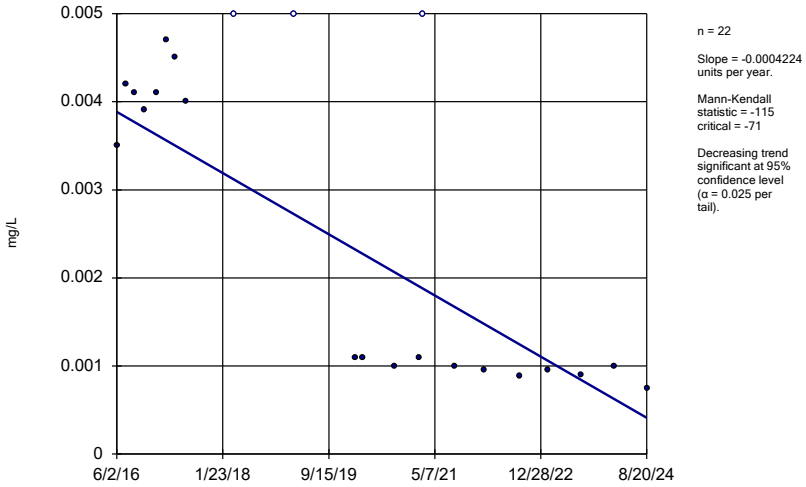
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5D (bg)



n = 22

Slope = -0.0004224 units per year.

Mann-Kendall statistic = -115
critical = -71

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Molybdenum Analysis Run 10/23/2024 11:07 AM View: Appendix IV - Upgradient Wells Scre
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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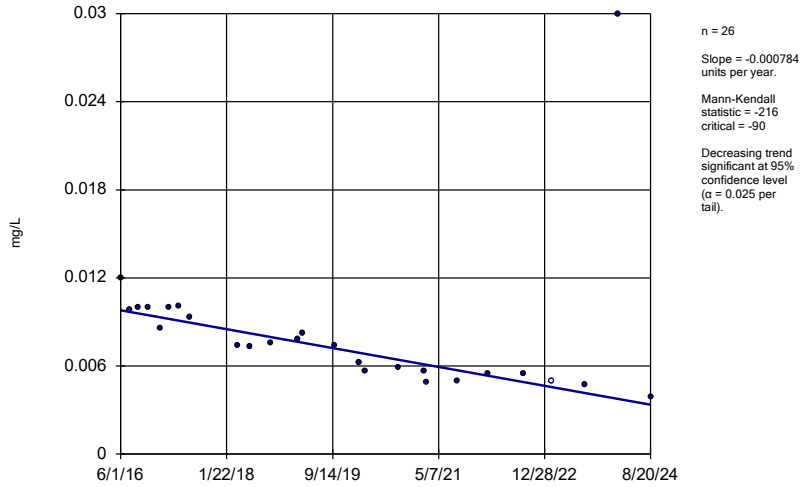
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-1I (bg)



n = 26

Slope = -0.000784 units per year.

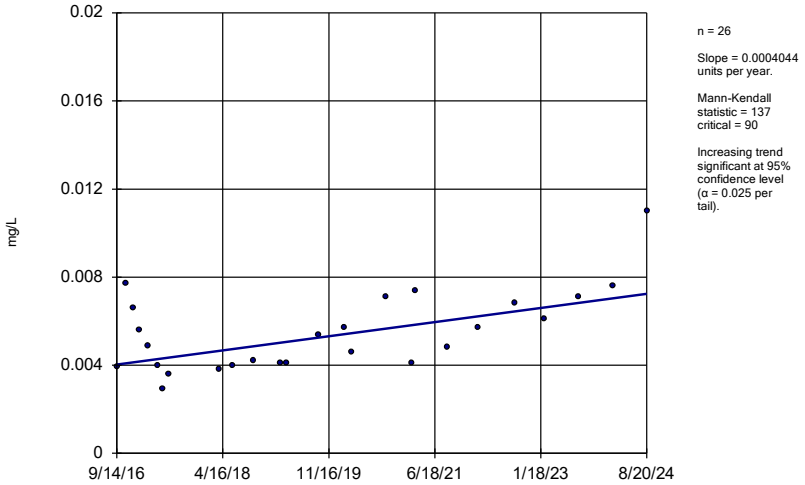
Mann-Kendall statistic = -216
critical = -90

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Molybdenum Analysis Run 10/23/2024 11:07 AM View: Appendix IV - Upgradient Wells Scre
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-2I (bg)



n = 26

Slope = 0.0004044 units per year.

Mann-Kendall statistic = 137 critical = 90

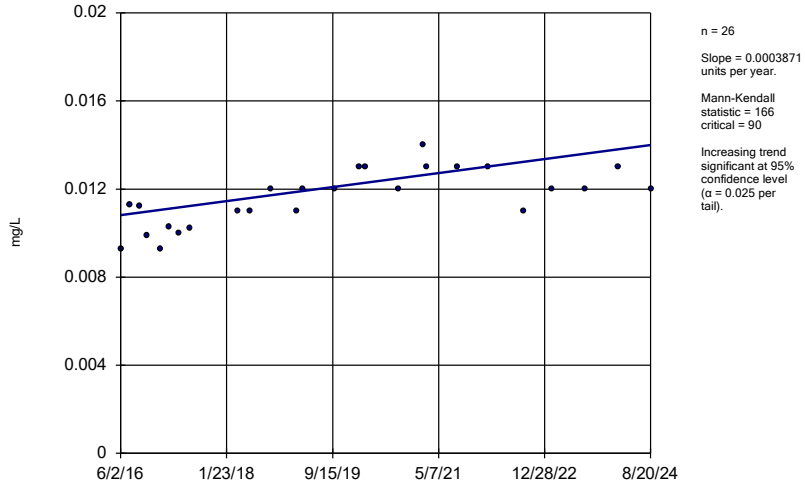
Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Molybdenum Analysis Run 10/23/2024 11:07 AM View: Appendix IV - Upgradient Wells Scre
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3D (bg)



n = 26

Slope = 0.0003871 units per year.

Mann-Kendall statistic = 166 critical = 90

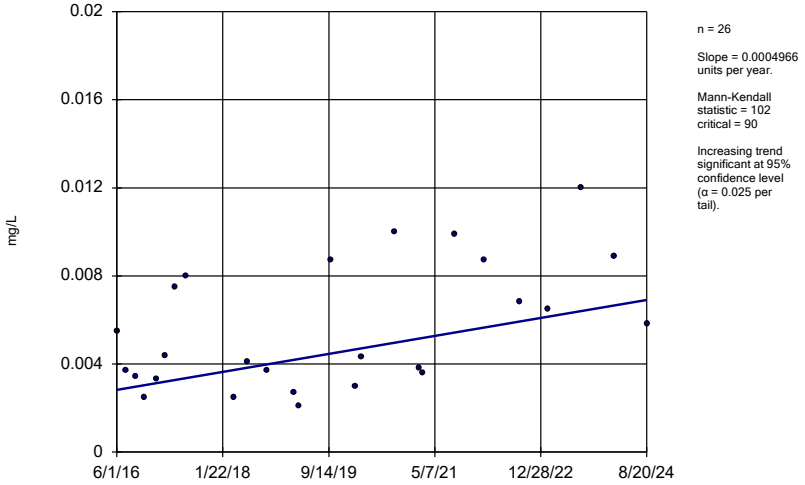
Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Molybdenum Analysis Run 10/23/2024 11:07 AM View: Appendix IV - Upgradient Wells Scre
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3I (bg)



n = 26

Slope = 0.0004966 units per year.

Mann-Kendall statistic = 102 critical = 90

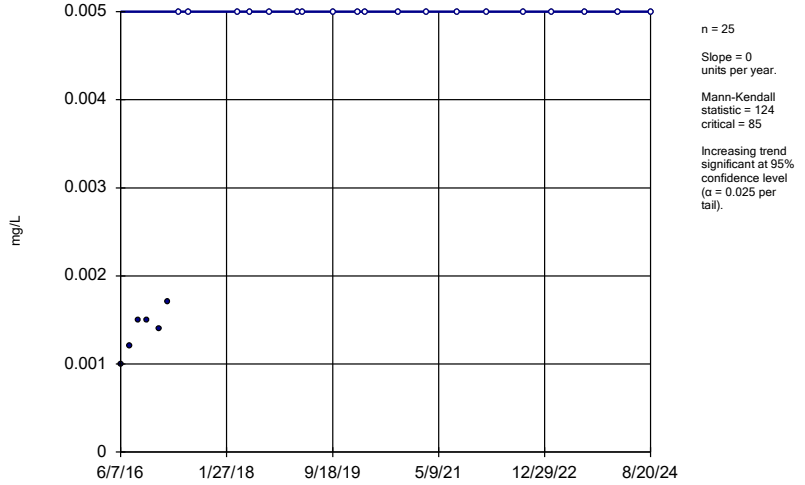
Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Molybdenum Analysis Run 10/23/2024 11:07 AM View: Appendix IV - Upgradient Wells Scre
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.23 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-17S (bg)



n = 25

Slope = 0 units per year.

Mann-Kendall statistic = 124 critical = 85

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 10/23/2024 11:07 AM View: Appendix IV - Upgradient Wells Screenin
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

FIGURE E.

Appendix III Interwell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 11/4/2024, 4:05 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-23S**	**0.16**	**n/a**	**8/21/2024**	**1.2**	**Yes**	**425**	**n/a**	**n/a**	**52.71**	**n/a**	**n/a**	**0.00004917**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-38**	**0.16**	**n/a**	**8/23/2024**	**3.3**	**Yes**	**425**	**n/a**	**n/a**	**52.71**	**n/a**	**n/a**	**0.00004917**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-41**	**0.16**	**n/a**	**8/23/2024**	**3.2**	**Yes**	**425**	**n/a**	**n/a**	**52.71**	**n/a**	**n/a**	**0.00004917**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-42**	**0.16**	**n/a**	**8/22/2024**	**12.4**	**Yes**	**425**	**n/a**	**n/a**	**52.71**	**n/a**	**n/a**	**0.00004917**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-43**	**0.16**	**n/a**	**8/22/2024**	**3.5**	**Yes**	**425**	**n/a**	**n/a**	**52.71**	**n/a**	**n/a**	**0.00004917**	**NP Inter (NDs) 1 of 2**
Calcium (mg/L)	**YGWC-38**	**37**	**n/a**	**8/23/2024**	**43.8**	**Yes**	**425**	**n/a**	**n/a**	**0.7059**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**YGWC-42**	**37**	**n/a**	**8/22/2024**	**64.4**	**Yes**	**425**	**n/a**	**n/a**	**0.7059**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**YGWC-36A**	**37**	**n/a**	**8/22/2024**	**41.1**	**Yes**	**425**	**n/a**	**n/a**	**0.7059**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**YGWC-38**	**160**	**n/a**	**8/23/2024**	**186**	**Yes**	**425**	**n/a**	**n/a**	**6.118**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**YGWC-42**	**160**	**n/a**	**8/22/2024**	**432**	**Yes**	**425**	**n/a**	**n/a**	**6.118**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**YGWC-43**	**160**	**n/a**	**8/22/2024**	**181**	**Yes**	**425**	**n/a**	**n/a**	**6.118**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**YGWC-36A**	**160**	**n/a**	**8/22/2024**	**191**	**Yes**	**425**	**n/a**	**n/a**	**6.118**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids (mg/L)	**YGWC-38**	**319**	**n/a**	**8/23/2024**	**418**	**Yes**	**424**	**n/a**	**n/a**	**0.4717**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids (mg/L)	**YGWC-42**	**319**	**n/a**	**8/22/2024**	**830**	**Yes**	**424**	**n/a**	**n/a**	**0.4717**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids (mg/L)	**YGWC-43**	**319**	**n/a**	**8/22/2024**	**412**	**Yes**	**424**	**n/a**	**n/a**	**0.4717**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids (mg/L)	**YGWC-36A**	**319**	**n/a**	**8/22/2024**	**783**	**Yes**	**424**	**n/a**	**n/a**	**0.4717**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**

Appendix III Interwell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 11/4/2024, 4:05 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-23S**	**0.16**	**n/a**	**8/21/2024**	**1.2**	**Yes**	**425**	**n/a**	**n/a**	**52.71**	**n/a**	**n/a**	**0.00004917**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-38**	**0.16**	**n/a**	**8/23/2024**	**3.3**	**Yes**	**425**	**n/a**	**n/a**	**52.71**	**n/a**	**n/a**	**0.00004917**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-41**	**0.16**	**n/a**	**8/23/2024**	**3.2**	**Yes**	**425**	**n/a**	**n/a**	**52.71**	**n/a**	**n/a**	**0.00004917**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-42**	**0.16**	**n/a**	**8/22/2024**	**12.4**	**Yes**	**425**	**n/a**	**n/a**	**52.71**	**n/a**	**n/a**	**0.00004917**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-43**	**0.16**	**n/a**	**8/22/2024**	**3.5**	**Yes**	**425**	**n/a**	**n/a**	**52.71**	**n/a**	**n/a**	**0.00004917**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	YGWC-49	0.16	n/a	8/22/2024	0.035J	No	425	n/a	n/a	52.71	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-36A	0.16	n/a	8/22/2024	0.16	No	425	n/a	n/a	52.71	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-24SB	0.16	n/a	8/22/2024	0.04ND	No	425	n/a	n/a	52.71	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Calcium (mg/L)	YGWC-23S	37	n/a	8/21/2024	13	No	425	n/a	n/a	0.7059	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	**YGWC-38**	**37**	**n/a**	**8/23/2024**	**43.8**	**Yes**	**425**	**n/a**	**n/a**	**0.7059**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	YGWC-41	37	n/a	8/23/2024	13.6	No	425	n/a	n/a	0.7059	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	**YGWC-42**	**37**	**n/a**	**8/22/2024**	**64.4**	**Yes**	**425**	**n/a**	**n/a**	**0.7059**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	YGWC-43	37	n/a	8/22/2024	14.8	No	425	n/a	n/a	0.7059	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-49	37	n/a	8/22/2024	10.8	No	425	n/a	n/a	0.7059	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Calcium (mg/L)	**YGWC-36A**	**37**	**n/a**	**8/22/2024**	**41.1**	**Yes**	**425**	**n/a**	**n/a**	**0.7059**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	YGWC-24SB	37	n/a	8/22/2024	2.3	No	425	n/a	n/a	0.7059	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-23S	12.7	n/a	8/21/2024	2.6	No	425	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-38	12.7	n/a	8/23/2024	4	No	425	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-41	12.7	n/a	8/23/2024	3.9	No	425	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-42	12.7	n/a	8/22/2024	3.1	No	425	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-43	12.7	n/a	8/22/2024	2.7	No	425	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-49	12.7	n/a	8/22/2024	4.1	No	425	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-36A	12.7	n/a	8/22/2024	4.8	No	425	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-24SB	12.7	n/a	8/22/2024	8.6	No	425	n/a	n/a	0	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Fluoride (mg/L)	YGWC-23S	0.68	n/a	8/21/2024	0.1ND	No	494	n/a	n/a	62.96	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-38	0.68	n/a	8/23/2024	0.1ND	No	494	n/a	n/a	62.96	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-41	0.68	n/a	8/23/2024	0.1ND	No	494	n/a	n/a	62.96	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-42	0.68	n/a	8/22/2024	0.1ND	No	494	n/a	n/a	62.96	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-43	0.68	n/a	8/22/2024	0.05J	No	494	n/a	n/a	62.96	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-49	0.68	n/a	8/22/2024	0.1ND	No	494	n/a	n/a	62.96	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-36A	0.68	n/a	8/22/2024	0.1ND	No	494	n/a	n/a	62.96	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-24SB	0.68	n/a	8/22/2024	0.1ND	No	494	n/a	n/a	62.96	n/a	n/a	0.00004917	NP Inter (NDs) 1 of 2
pH (S.U.)	YGWC-23S	8.39	4.4	8/21/2024	5.4	No	505	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-38	8.39	4.4	8/23/2024	5.11	No	505	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-41	8.39	4.4	8/23/2024	5.18	No	505	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-42	8.39	4.4	8/22/2024	5.52	No	505	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-43	8.39	4.4	8/22/2024	5.61	No	505	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-49	8.39	4.4	8/22/2024	5.72	No	505	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-36A	8.39	4.4	8/22/2024	4.82	No	505	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-24SB	8.39	4.4	8/22/2024	5.16	No	505	n/a	n/a	0	n/a	n/a	0.00009834	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-23S	160	n/a	8/21/2024	89.3	No	425	n/a	n/a	6.118	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**YGWC-38**	**160**	**n/a**	**8/23/2024**	**186**	**Yes**	**425**	**n/a**	**n/a**	**6.118**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	YGWC-41	160	n/a	8/23/2024	97.8	No	425	n/a	n/a	6.118	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**YGWC-42**	**160**	**n/a**	**8/22/2024**	**432**	**Yes**	**425**	**n/a**	**n/a**	**6.118**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**YGWC-43**	**160**	**n/a**	**8/22/2024**	**181**	**Yes**	**425**	**n/a**	**n/a**	**6.118**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	YGWC-49	160	n/a	8/22/2024	66.4	No	425	n/a	n/a	6.118	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**YGWC-36A**	**160**	**n/a**	**8/22/2024**	**191**	**Yes**	**425**	**n/a**	**n/a**	**6.118**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	YGWC-24SB	160	n/a	8/22/2024	0.5ND	No	425	n/a	n/a	6.118	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-23S	319	n/a	8/21/2024	193	No	424	n/a	n/a	0.4717	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	**YGWC-38**	**319**	**n/a**	**8/23/2024**	**418**	**Yes**	**424**	**n/a**	**n/a**	**0.4717**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids (mg/L)	YGWC-41	319	n/a	8/23/2024	225	No	424	n/a	n/a	0.4717	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	**YGWC-42**	**319**	**n/a**	**8/22/2024**	**830**	**Yes**	**424**	**n/a**	**n/a**	**0.4717**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids (mg/L)	**YGWC-43**	**319**	**n/a**	**8/22/2024**	**412**	**Yes**	**424**	**n/a**	**n/a**	**0.4717**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids (mg/L)	YGWC-49	319	n/a	8/22/2024	159	No	424	n/a	n/a	0.4717	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	**YGWC-36A**	**319**	**n/a**	**8/22/2024**	**783**	**Yes**	**424**	**n/a**	**n/a**	**0.4717**	**n/a**	**n/a**	**0.00004917**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids (mg/L)	YGWC-24SB	319	n/a	8/22/2024	82	No	424	n/a	n/a	0.4717	n/a	n/a	0.00004917	NP Inter (normality) 1 of 2

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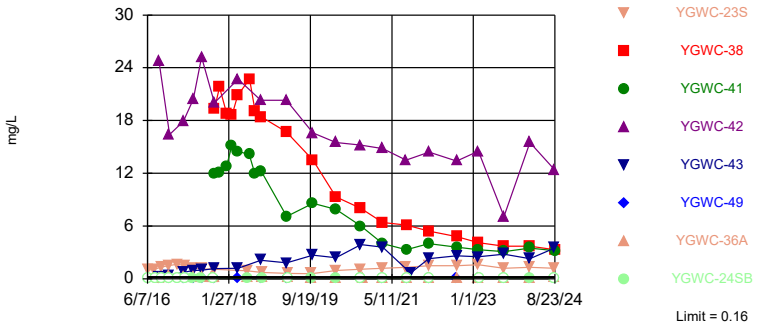
Hollow symbols indicate censored values.

Exceeds Limit: YGWC-23S, YGWC-38, YGWC-41, YGWC-42, YGWC-43

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 425 background values. 52.71% NDs. Annual per-constituent alpha = 0.0007864. Individual comparison alpha = 0.00004917 (1 of 2). Comparing 8 points to limit.

Constituent: Boron Analysis Run 11/4/2024 4:03 PM View: Appendix III
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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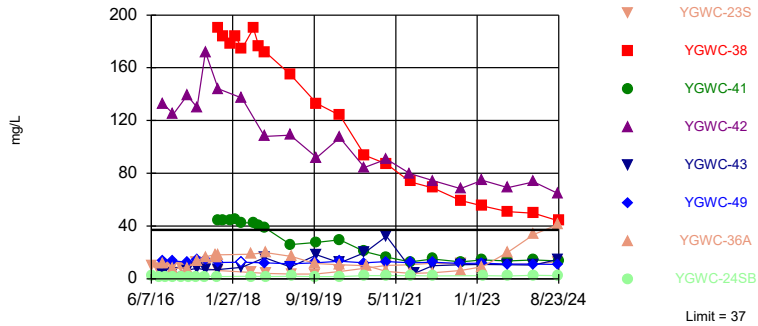
Hollow symbols indicate censored values.

Exceeds Limit: YGWC-38, YGWC-42, YGWC-36A

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 425 background values. 0.7059% NDs. Annual per-constituent alpha = 0.0007864. Individual comparison alpha = 0.00004917 (1 of 2). Comparing 8 points to limit.

Constituent: Calcium Analysis Run 11/4/2024 4:03 PM View: Appendix III
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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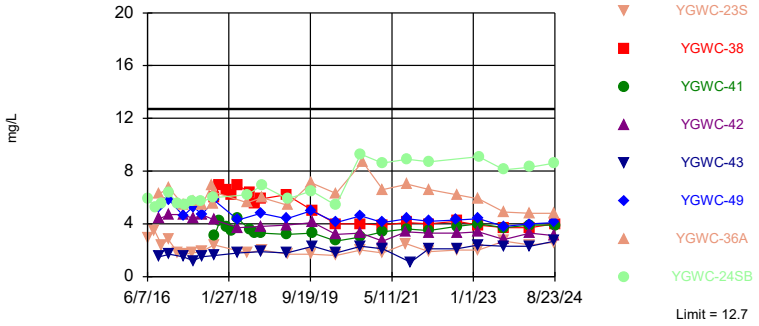
Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 425 background values. Annual per-constituent alpha = 0.0007864. Individual comparison alpha = 0.00004917 (1 of 2). Comparing 8 points to limit.

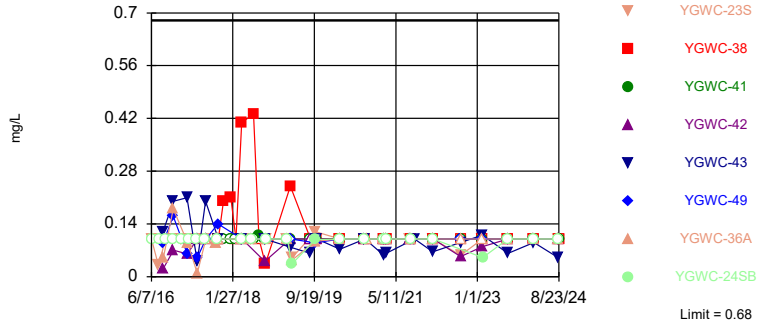
Constituent: Chloride Analysis Run 11/4/2024 4:03 PM View: Appendix III
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



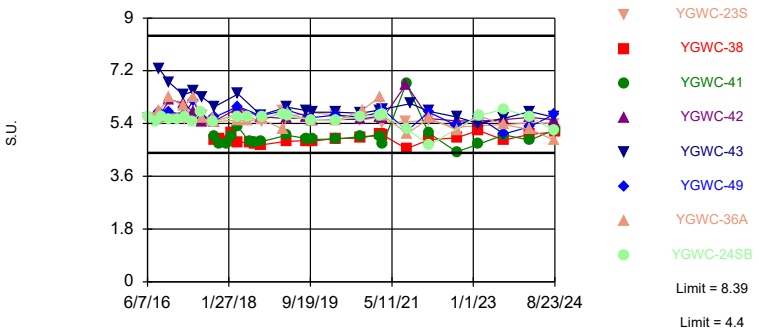
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 494 background values. 62.96% NDs. Annual per-constituent alpha = 0.0007864. Individual comparison alpha = 0.00004917 (1 of 2). Comparing 8 points to limit.

Constituent: Fluoride Analysis Run 11/4/2024 4:03 PM View: Appendix III
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Within Limits

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 505 background values. Annual per-constituent alpha = 0.001573. Individual comparison alpha = 0.00009834 (1 of 2). Comparing 8 points to limit.

Constituent: pH Analysis Run 11/4/2024 4:03 PM View: Appendix III

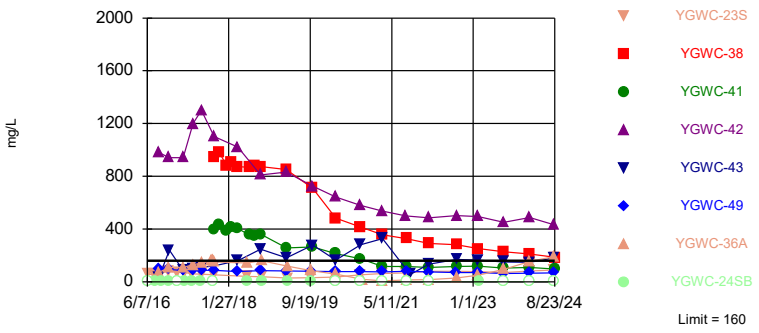
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Hollow symbols indicate censored values.

Exceeds Limit: YGWC-38, YGWC-42, YGWC-43, YGWC-36A

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 425 background values. 6.118% NDs. Annual per-constituent alpha = 0.0007864. Individual comparison alpha = 0.00004917 (1 of 2). Comparing 8 points to limit.

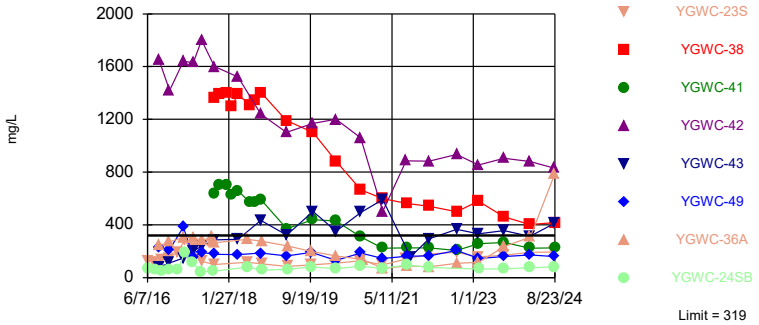
Constituent: Sulfate Analysis Run 11/4/2024 4:03 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Exceeds Limit: YGWC-38, YGWC-42, YGWC-43, YGWC-36A

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 424 background values. 0.4717% NDs. Annual per-constituent alpha = 0.0007864. Individual comparison alpha = 0.00004917 (1 of 2). Comparing 8 points to limit.

Constituent: Total Dissolved Solids Analysis Run 11/4/2024 4:03 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/4/2024 4:05 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-5I (bg)
6/1/2016	<0.04	<0.04	<0.04						
6/2/2016				<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016	<0.04		<0.04				<0.04		
7/26/2016		0.0055 (J)		0.0052 (J)	0.0177 (J)	0.0097 (J)		0.0047 (J)	<0.04
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016		<0.04	<0.04						
9/14/2016	<0.04			0.0071 (J)				<0.04	0.01 (J)
9/15/2016					0.0214 (J)	0.0102 (J)			
9/16/2016									
9/19/2016							<0.04		
9/20/2016									
11/1/2016	<0.04	0.0086 (J)				<0.04	<0.04		
11/2/2016				<0.04	<0.04			<0.04	
11/3/2016									
11/4/2016			<0.04						<0.04
11/8/2016									
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017					0.0198 (J)				
1/11/2017	<0.04	0.0074 (J)				<0.04			
1/12/2017				0.0076 (J)					<0.04
1/13/2017								<0.04	
1/16/2017			<0.04				<0.04		
1/17/2017									
2/21/2017							<0.04		
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017	<0.04								
3/2/2017		0.008 (J)	<0.04			0.0084 (J)			
3/3/2017									
3/6/2017								<0.04	
3/7/2017				0.0089 (J)					<0.04
3/8/2017					0.0189 (J)				
3/9/2017									
4/26/2017	<0.04				0.0161 (J)	<0.04	<0.04		
4/27/2017		0.0066 (J)	<0.04						
4/28/2017									
5/1/2017				0.0061 (J)				<0.04	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/4/2024 4:05 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-5I (bg)
5/2/2017									<0.04
5/8/2017									
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017		0.0087 (J)	0.006 (J)	0.0079 (J)					<0.04
6/28/2017	<0.04					<0.04			
6/29/2017								<0.04	
6/30/2017					0.0173 (J)		<0.04		
7/7/2017									
7/10/2017									
7/11/2017									
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017		0.0072 (J)	0.0071 (J)	0.0094 (J)					<0.04
10/4/2017	<0.04					<0.04	<0.04		
10/5/2017					0.0173 (J)			<0.04	
10/6/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018		0.0052 (J)							
6/6/2018			<0.04	0.0098 (J)					
6/7/2018						0.004 (J)		0.0045 (J)	<0.04
6/8/2018	<0.04				0.013 (J)				
6/11/2018							0.014 (J)		
6/12/2018									
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/20/2018									
9/24/2018									
9/25/2018									
9/26/2018				0.01 (J)				0.005 (J)	0.0057 (J)
9/27/2018									
10/1/2018	<0.04	0.021 (J)	0.0049 (J)		0.015 (J)	<0.04			

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/4/2024 4:05 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-5I (bg)
10/2/2018							<0.04		
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019		0.005 (J)	<0.04						
3/29/2019					0.014 (J)				
4/1/2019	<0.04					<0.04	<0.04		
4/2/2019									
4/3/2019				0.0076 (J)				0.0055 (J)	0.0044 (J)
4/4/2019									
6/12/2019									
9/24/2019		0.0064 (J)	0.0055 (J)	0.01 (J)					0.0049 (J)
9/25/2019	<0.04				0.018 (J)	0.0054 (J)	<0.04	<0.04	
9/26/2019									
9/27/2019									
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020			0.0087 (J)		0.02 (J)				
3/19/2020	0.0053 (J)	0.0085 (J)				0.0073 (J)	0.0052 (J)		
3/24/2020				0.011 (J)					0.0068 (J)
3/25/2020								0.011 (J)	
3/26/2020									
9/22/2020				0.0079 (J)				<0.04	0.0053 (J)
9/23/2020	0.0073 (J)	<0.04	<0.04			0.012 (J)			
9/24/2020							0.0075 (J)		
9/25/2020					0.02 (J)				
10/7/2020									
3/1/2021							<0.04		
3/2/2021				0.0068 (J)	0.017 (J)				0.011 (J)
3/3/2021	<0.04	<0.04	<0.04			<0.04		0.0056 (J)	
3/4/2021									
8/19/2021		<0.04	<0.04		0.018 (J)	<0.04	<0.04		
8/20/2021									
8/25/2021									
8/26/2021				0.009 (J)				<0.04	<0.04
8/27/2021	<0.04								
9/1/2021									
9/3/2021									
9/27/2021									
2/8/2022									
2/9/2022	<0.04	<0.04	<0.04			0.01 (J)			
2/10/2022				0.011 (J)	0.02 (J)				<0.04
2/11/2022							<0.04	<0.04	
8/30/2022		<0.04		0.0098 (J)					<0.04
8/31/2022	<0.04		<0.04		0.015 (J)	<0.04	<0.04	<0.04	
9/1/2022									
2/7/2023		<0.04	<0.04	<0.04					
2/8/2023	<0.04				0.015 (J)	<0.04	<0.04		
2/9/2023								<0.04	<0.04
2/10/2023									
8/15/2023		<0.04	0.0094 (J)	<0.04	0.017 (J)	<0.04		<0.04	<0.04

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/4/2024 4:05 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-5I (bg)
8/16/2023	<0.04						<0.04		
2/20/2024	<0.04	0.015 (J)	0.014 (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	0.014 (J)	<0.04	<0.04	<0.04	<0.04
8/21/2024									
8/22/2024									
8/23/2024									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/4/2024 4:05 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWC-23S	YGWC-24SB	YGWC-42	YGWA-47 (bg)
6/1/2016									
6/2/2016									
6/6/2016	<0.04	<0.04							
6/7/2016			<0.04	<0.04	<0.04	0.99			
6/8/2016							<0.04		
7/25/2016									
7/26/2016									
7/27/2016	0.0059 (J)	<0.04	<0.04		0.008 (J)				
7/28/2016				<0.04		1.09			
8/1/2016							<0.04		
8/30/2016								24.7	0.0166 (J)
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016	0.0079 (J)				0.0086 (J)				
9/19/2016		<0.04	<0.04	<0.04					
9/20/2016						1.35	<0.04		
11/1/2016									
11/2/2016			<0.04						
11/3/2016	0.0082 (J)	<0.04		<0.04	0.0077 (J)				
11/4/2016									
11/8/2016						1.5	<0.04		
11/14/2016									0.0166 (J)
11/15/2016									
11/16/2016								16.4	
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	0.0096 (J)	<0.04			0.0092 (J)				
1/12/2017									
1/13/2017			<0.04	<0.04					
1/16/2017						1.67			
1/17/2017							<0.04		
2/21/2017									
2/22/2017									
2/24/2017									0.0145 (J)
2/27/2017								17.9	
2/28/2017									
3/1/2017	<0.04	<0.04							
3/2/2017					0.0095 (J)				
3/3/2017									
3/6/2017			<0.04	<0.04					
3/7/2017									
3/8/2017							<0.04		
3/9/2017						1.44			
4/26/2017	0.0091 (J)	<0.04	<0.04	<0.04					
4/27/2017									
4/28/2017									
5/1/2017									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/4/2024 4:05 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWC-23S	YGWC-24SB	YGWC-42	YGWA-47 (bg)
5/2/2017					<0.04	1.2	0.0099 (J)		
5/8/2017									0.0141 (J)
5/9/2017									
5/10/2017								20.4	
5/26/2017									
6/27/2017									
6/28/2017	0.0079 (J)	<0.04							
6/29/2017			<0.04	<0.04	0.0074 (J)				
6/30/2017									
7/7/2017							0.0076 (J)		
7/10/2017						1.12			
7/11/2017								25.2	0.0131 (J)
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017				<0.04					
10/4/2017	0.009 (J)		<0.04		0.0077 (J)				
10/5/2017		<0.04					<0.04		
10/6/2017									
10/10/2017									0.0124 (J)
10/11/2017						1.09			
10/12/2017								20	
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018									0.013 (J)
4/3/2018									
4/4/2018								22.7	
6/5/2018				0.0092 (J)					
6/6/2018			0.0049 (J)						
6/7/2018		<0.04							
6/8/2018									
6/11/2018	0.0093 (J)				0.01 (J)				
6/12/2018						0.9	0.018 (J)		
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									0.012 (J)
9/20/2018								20.3	
9/24/2018									
9/25/2018	0.007 (J)	0.0046 (J)	<0.04	0.0054 (J)	0.0096 (J)				
9/26/2018							0.0055 (J)		
9/27/2018						0.71			
10/1/2018									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/4/2024 4:05 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWC-23S	YGWC-24SB	YGWC-42	YGWA-47 (bg)
10/2/2018									
2/25/2019									
3/26/2019									
3/27/2019								20.3	0.013 (J)
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019				0.011 (J)	0.0066 (J)				
4/3/2019	0.0053 (J)	<0.04	<0.04						
4/4/2019						0.6	<0.04		
6/12/2019									
9/24/2019				0.018 (J)					
9/25/2019			<0.04		0.0081 (J)				
9/26/2019	0.0072 (J)	0.0062 (J)					0.0068 (J)		
9/27/2019						0.58			
10/8/2019									0.012 (J)
10/9/2019								16.6	
3/17/2020									0.023 (J)
3/18/2020									
3/19/2020									
3/24/2020	0.01 (J)	0.0054 (J)	<0.04	0.016 (J)	0.0092 (J)				
3/25/2020								15.5	
3/26/2020						0.94	0.033 (J)		
9/22/2020									0.0076 (J)
9/23/2020	0.006 (J)	0.021 (J)			0.0066 (J)		<0.04		
9/24/2020			0.0094 (J)	0.013 (J)		1.1		15.2	
9/25/2020									
10/7/2020									
3/1/2021									0.013 (J)
3/2/2021									
3/3/2021	0.0094 (J)	<0.04	<0.04		0.01 (J)		<0.04		
3/4/2021				0.0079 (J)		1.2		14.8	
8/19/2021									0.011 (J)
8/20/2021									
8/25/2021						1.3		13.5	
8/26/2021	<0.04								
8/27/2021		<0.04	<0.04		0.011 (J)				
9/1/2021				<0.04			<0.04		
9/3/2021									
9/27/2021									
2/8/2022									0.015 (J)
2/9/2022	<0.04	<0.04	<0.04	<0.04	0.0098 (J)				
2/10/2022						1.5	<0.04	14.4	
2/11/2022									
8/30/2022	0.014 (J)	<0.04		0.012 (J)	0.013 (J)				
8/31/2022			<0.04						0.0091 (J)
9/1/2022						1.5		13.4	
2/7/2023	<0.04	<0.04	<0.04	<0.04	0.014 (J)				
2/8/2023						1.6		14.5	0.011 (J)
2/9/2023									
2/10/2023							<0.04		
8/15/2023	<0.04	<0.04	<0.04	0.046 (J)	<0.04				<0.04

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/4/2024 4:05 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWC-23S	YGWC-24SB	YGWC-42	YGWA-47 (bg)
8/16/2023						1.2	<0.04	7.1	
2/20/2024		<0.04	<0.04	<0.04	<0.04				0.023 (J)
2/21/2024						1.3			
2/22/2024								15.5	
2/23/2024	0.018 (J)						0.016 (J)		
8/20/2024		<0.04	<0.04	<0.04	<0.04				<0.04
8/21/2024	<0.04					1.2			
8/22/2024							<0.04	12.4	
8/23/2024									

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/4/2024 4:05 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-38	YGWC-41
6/1/2016									
6/2/2016									
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016									
7/26/2016									
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016	0.169	0.0315 (J)							
9/1/2016			0.0113 (J)						
9/2/2016				0.133					
9/13/2016									
9/14/2016					<0.04				
9/15/2016									
9/16/2016									
9/19/2016									
9/20/2016									
11/1/2016									
11/2/2016									
11/3/2016									
11/4/2016					<0.04				
11/8/2016									
11/14/2016				0.287					
11/15/2016			0.0074 (J)						
11/16/2016	0.406								
11/28/2016		0.0095 (J)							
12/15/2016					0.0107 (J)				
1/10/2017									
1/11/2017									
1/12/2017									
1/13/2017									
1/16/2017					<0.04				
1/17/2017									
2/21/2017									
2/22/2017		<0.04							
2/24/2017	0.725								
2/27/2017			<0.04						
2/28/2017				0.215					
3/1/2017									
3/2/2017									
3/3/2017					<0.04				
3/6/2017									
3/7/2017									
3/8/2017									
3/9/2017									
4/26/2017									
4/27/2017									
4/28/2017					<0.04				
5/1/2017									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/4/2024 4:05 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-38	YGWC-41
5/2/2017									
5/8/2017		0.0084 (J)							
5/9/2017			<0.04	0.233					
5/10/2017	0.955								
5/26/2017					<0.04				
6/27/2017									
6/28/2017					<0.04				
6/29/2017									
6/30/2017									
7/7/2017									
7/10/2017									
7/11/2017	0.994								
7/13/2017			0.0093 (J)	0.262					
7/17/2017		0.0092 (J)							
9/22/2017				0.238					
9/29/2017				0.235					
10/3/2017					<0.04				
10/4/2017									
10/5/2017									
10/6/2017				0.256					
10/10/2017									
10/11/2017			<0.04	0.245		0.0135 (J)			
10/12/2017	1.15						0.0401	19.3	12
10/16/2017		<0.04							
11/20/2017						0.0251 (J)	0.156	21.8	
11/21/2017									12.1
1/10/2018							0.15		
1/11/2018						0.0255 (J)			12.8
1/12/2018								18.7	
2/19/2018		<0.04					0.146		15.2
2/20/2018						<0.04		18.6	
4/2/2018									
4/3/2018						0.033 (J)	0.12	20.9	14.5
4/4/2018	1.2		0.0041 (J)						
6/5/2018									
6/6/2018									
6/7/2018					<0.04				
6/8/2018									
6/11/2018									
6/12/2018									
6/13/2018				0.25					
6/27/2018									14.1
6/28/2018						0.053	0.16	22.7	
8/6/2018		<0.04							
8/7/2018						0.024 (J)	0.12	19.1	11.9
9/19/2018									
9/20/2018	2.1		0.0042 (J)						
9/24/2018						0.028 (J)	0.099	18.4	12.2
9/25/2018									
9/26/2018				0.24					
9/27/2018									
10/1/2018					<0.04				

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/4/2024 4:05 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-38	YGWC-41
10/2/2018									
2/25/2019		<0.04							
3/26/2019							0.096		
3/27/2019						0.017 (J)		16.7	
3/28/2019	1.8		<0.04						7.1
3/29/2019					0.0065 (J)				
4/1/2019									
4/2/2019									
4/3/2019									
4/4/2019				0.22					
6/12/2019		<0.04							
9/24/2019					0.0076 (J)				
9/25/2019									
9/26/2019			<0.04	0.13					
9/27/2019									
10/8/2019		<0.04							
10/9/2019	2.7					0.017 (J)	0.079	13.5	8.6
3/17/2020		0.0051 (J)							
3/18/2020									
3/19/2020					0.0073 (J)				
3/24/2020							0.088 (J)		
3/25/2020	2.4		0.012 (J)	0.11		0.043 (J)		9.3	7.9
3/26/2020									
9/22/2020		0.0079 (J)							
9/23/2020					<0.04				
9/24/2020			0.062 (J)			0.037 (J)	0.087 (J)		
9/25/2020	3.9							8	6
10/7/2020				0.018 (J)					
3/1/2021									
3/2/2021		<0.04							
3/3/2021					<0.04				
3/4/2021	3.6		<0.04	0.0088 (J)		0.033 (J)	0.078	6.4	4
8/19/2021									
8/20/2021		<0.04							
8/25/2021									
8/26/2021						0.095		6.1	3.3
8/27/2021					<0.04				
9/1/2021			<0.04						
9/3/2021				0.012 (J)			0.077		
9/27/2021	0.64								
2/8/2022	2.3	<0.04	<0.04			0.13	0.074		4
2/9/2022					<0.04				
2/10/2022								5.4	
2/11/2022				0.019 (J)					
8/30/2022		<0.04			<0.04				
8/31/2022			0.011 (J)			0.14	0.062		
9/1/2022	2.6			0.067				4.8	3.6
2/7/2023		<0.04			<0.04	0.13			
2/8/2023	2.5						0.057	4.1	3.3
2/9/2023			0.014 (J)	0.028 (J)					
2/10/2023									
8/15/2023		<0.04			<0.04	0.15 (J)	0.052 (J)		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/4/2024 4:05 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-38	YGWC-41
8/16/2023	2.8		0.012 (J)	0.058				3.7	3.1
2/20/2024		0.017 (J)			<0.04	0.12	0.056		
2/21/2024			<0.04						
2/22/2024	2.3							3.7	3.5
2/23/2024				0.11					
8/20/2024					<0.04				
8/21/2024						0.13	0.061		
8/22/2024	3.5		0.035 (J)	0.16					
8/23/2024								3.3	3.2

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/4/2024 4:05 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-5I (bg)
6/1/2016	21	12	2.5						
6/2/2016				33	1.3	28	1.3	8.8	2.4
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016	20.3		2.16				1.17		
7/26/2016		11		32.3	1.24	24.5		7.69	2.12
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016		11.8	2.21						
9/14/2016	19.7			31				8.49	2.18
9/15/2016					1.17	27			
9/16/2016									
9/19/2016							1.05		
9/20/2016									
11/1/2016	18.4	11				25.6	1.14		
11/2/2016				30.9	1.23			7.83	
11/3/2016									
11/4/2016			2.67						2.17 (J)
11/8/2016									
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017					1.24				
1/11/2017	20.3	11.2				27.5			
1/12/2017				35.7					2.37
1/13/2017								8.08	
1/16/2017			2.45				1.23		
1/17/2017									
2/21/2017							1.25		
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017	18.6								
3/2/2017		11	2.57			27.5			
3/3/2017									
3/6/2017								8.64	
3/7/2017				32.7					2.34
3/8/2017					1.21				
3/9/2017									
4/26/2017	25.6				1.14	30.4	1.03		
4/27/2017		11.1	2.38						
4/28/2017									
5/1/2017				37				13.4	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/4/2024 4:05 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-5I (bg)
5/2/2017									2.17
5/8/2017									
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017		13.8	2.36	36.5					2.13
6/28/2017	23.9					29.8			
6/29/2017								8.81	
6/30/2017					1.24		1.13		
7/7/2017									
7/10/2017									
7/11/2017									
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017		14	2.21	30.9					2.15
10/4/2017	22.1					29.7	1.09		
10/5/2017					1.11			9.29	
10/6/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018		15.2 (J)							
6/6/2018			2.3	26.2					
6/7/2018						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									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/20/2018									
9/24/2018									
9/25/2018									
9/26/2018				25.8				9.5 (J)	2.3
9/27/2018									
10/1/2018	19.7	15.1	1.8		0.99	26.9			

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/4/2024 4:05 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-5I (bg)
10/2/2018							1.1		
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019		13.3 (J)	2.2						
3/29/2019					1.1				
4/1/2019	20.4 (J)					30.1	1.3		
4/2/2019									
4/3/2019				24.7 (J)				8.4	2.8
4/4/2019									
6/12/2019									
9/24/2019		15.8	2.3	25.8					2.5
9/25/2019	22.4				1.1	29.5	1.1	9.5	
9/26/2019									
9/27/2019									
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020			2.1		1.1				
3/19/2020	21.9	15				31.5	1.2		
3/24/2020				26.1					2.5
3/25/2020								10.5	
3/26/2020									
9/22/2020				27.2				9.6	2.6
9/23/2020	23.6	14.1	1.8			28.6			
9/24/2020							1.1		
9/25/2020					1.3				
10/7/2020									
3/1/2021							1.2		
3/2/2021				1.6	1.2				2.6
3/3/2021	20.6	14.1	1.8			29.8		7.7	
3/4/2021									
8/19/2021		14.2	2		1.2	28.1	1.2		
8/20/2021									
8/25/2021									
8/26/2021				25.2				7.6	2.5
8/27/2021	24.7								
9/1/2021									
9/3/2021									
9/27/2021									
2/8/2022									
2/9/2022	23.7	14.9	2.1			30.3			
2/10/2022				24.8	1.3				2.5
2/11/2022							1.5	7.5	
8/30/2022		14.9		24.8					2.5
8/31/2022	23.5		1.9		1.3	28.7	1.3	8.9	
9/1/2022									
2/7/2023		15	2.2	26.6					
2/8/2023	23.3				1.5	28.9	1.3		
2/9/2023								9.6	2.8
2/10/2023									
8/15/2023		13.5	1.8	25	1.3	27.4		7.8	2.6

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/4/2024 4:05 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-5I (bg)
8/16/2023	24.9						1.4		
2/20/2024	23.7	15.3	2.2	27.2		30.7	1.3	9.9	2.7
2/21/2024									
2/22/2024									
2/23/2024					1.6				
8/20/2024	23.4	17.7	1.9	29.1	1.3	30	1.4	9.1	3.2
8/21/2024									
8/22/2024									
8/23/2024									

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/4/2024 4:05 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWC-23S	YGWC-24SB	YGWC-42	YGWA-47 (bg)
6/1/2016									
6/2/2016									
6/6/2016	1.4	6.2							
6/7/2016			2.3	3.7	2.2	9.6			
6/8/2016							1.9		
7/25/2016									
7/26/2016									
7/27/2016	1.19	4.73	2.08		2				
7/28/2016				3.15		7.87			
8/1/2016							1.83		
8/30/2016								133	20.9
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016	1.5				1.97				
9/19/2016		4.76	1.97	3.17					
9/20/2016						9.28	1.78		
11/1/2016									
11/2/2016			2.13						
11/3/2016	1.31	5.25		3.4	1.99				
11/4/2016									
11/8/2016						8.6	1.77		
11/14/2016									18.6
11/15/2016									
11/16/2016								125	
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	1.25	4.74			2.28				
1/12/2017									
1/13/2017			2.45	4.98					
1/16/2017						8.85			
1/17/2017							1.7		
2/21/2017									
2/22/2017									
2/24/2017									16.1
2/27/2017								139	
2/28/2017									
3/1/2017	1.26	5.37							
3/2/2017					2.15				
3/3/2017									
3/6/2017			2.48	6.28					
3/7/2017									
3/8/2017							1.77		
3/9/2017						8.4			
4/26/2017	1.05	4.28	2.3	6.65					
4/27/2017									
4/28/2017									
5/1/2017									

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/4/2024 4:05 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWC-23S	YGWC-24SB	YGWC-42	YGWA-47 (bg)
5/2/2017					1.95	12.9	1.57		
5/8/2017									14.6
5/9/2017									
5/10/2017								130	
5/26/2017									
6/27/2017									
6/28/2017	1.06	4.95							
6/29/2017			2.54	6.04	2.02				
6/30/2017									
7/7/2017							1.8		
7/10/2017						8.09			
7/11/2017								172	14.3
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017				8.28					
10/4/2017	1.1		2.25		2.03				
10/5/2017		5.28					1.7		
10/6/2017									
10/10/2017									12.1
10/11/2017						6.36			
10/12/2017								144	
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018									<25
4/3/2018									
4/4/2018								137	
6/5/2018				9.1					
6/6/2018			2.3						
6/7/2018		4.8							
6/8/2018									
6/11/2018	1.4				2.1				
6/12/2018						4.7	1.8		
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									11.1 (J)
9/20/2018								108	
9/24/2018									
9/25/2018	1	4.6	2.3	10.4 (J)	2.1				
9/26/2018							1.7		
9/27/2018						4.1			
10/1/2018									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/4/2024 4:05 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWC-23S	YGWC-24SB	YGWC-42	YGWA-47 (bg)
10/2/2018									
2/25/2019									
3/26/2019									
3/27/2019								109	10.8 (J)
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019				8.8	2.5				
4/3/2019	1.2	5.3	2.9						
4/4/2019						3.7	1.9		
6/12/2019									
9/24/2019				7.7					
9/25/2019			2.4		2.6				
9/26/2019	1.1	4.9					1.7		
9/27/2019						3.7			
10/8/2019									9.7
10/9/2019								92	
3/17/2020									14.8
3/18/2020									
3/19/2020									
3/24/2020	1	5.3	2.6	6	2.7				
3/25/2020								107	
3/26/2020						5.6	1.7		
9/22/2020									10.1
9/23/2020	0.91 (J)	5.2			2.6		2.4		
9/24/2020			2.6	7.8		7.9		84.3	
9/25/2020									
10/7/2020									
3/1/2021									10.3
3/2/2021									
3/3/2021	0.96 (J)	5.2	2.4		2.5		2.4		
3/4/2021				8.7		10.2		90.7	
8/19/2021									9.6
8/20/2021									
8/25/2021						10.6		79.9	
8/26/2021	0.98 (J)								
8/27/2021		5.1	2.4		2.7				
9/1/2021				9.5			2.3		
9/3/2021									
9/27/2021									
2/8/2022									9.4
2/9/2022	0.87 (J)	5.1	2.3	9.8	2.8				
2/10/2022						11.8	2.2	74.4	
2/11/2022									
8/30/2022	0.77 (J)	5.7		7.3	3				
8/31/2022			2.4						9.6
9/1/2022						11.2		68.5	
2/7/2023	0.79 (J)	5.5	2.4	7.5	2.9				
2/8/2023						10.9		74.6	9.2
2/9/2023									
2/10/2023							2.4		
8/15/2023	0.8 (J)	5.1	2.2	6.1	2.9				9.6

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/4/2024 4:05 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWC-23S	YGWC-24SB	YGWC-42	YGWA-47 (bg)
8/16/2023						11.2	2.2	69.2	
2/20/2024		5.6	2.5	7	3.2				10.3
2/21/2024						11.1			
2/22/2024								73.5	
2/23/2024	0.84 (J)						2.6		
8/20/2024		5.9	2.8	6.9	3.5				10
8/21/2024	0.96 (J)					13			
8/22/2024							2.3	64.4	
8/23/2024									

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/4/2024 4:05 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-38	YGWC-41
6/1/2016									
6/2/2016									
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016									
7/26/2016									
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016	3.4	9.31							
9/1/2016			13.9						
9/2/2016				11.2					
9/13/2016									
9/14/2016					23.5				
9/15/2016									
9/16/2016									
9/19/2016									
9/20/2016									
11/1/2016									
11/2/2016									
11/3/2016									
11/4/2016					23.7				
11/8/2016									
11/14/2016				7.79					
11/15/2016			13.5						
11/16/2016	3.79								
11/28/2016		9.47 (B)							
12/15/2016					23.1				
1/10/2017									
1/11/2017									
1/12/2017									
1/13/2017									
1/16/2017					23.3				
1/17/2017									
2/21/2017									
2/22/2017		10.4							
2/24/2017	6.42								
2/27/2017			12.5						
2/28/2017				8.37					
3/1/2017									
3/2/2017									
3/3/2017					25.1				
3/6/2017									
3/7/2017									
3/8/2017									
3/9/2017									
4/26/2017									
4/27/2017									
4/28/2017					30.7				
5/1/2017									

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/4/2024 4:05 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-38	YGWC-41
5/2/2017									
5/8/2017		14.2							
5/9/2017			14.4	13.9					
5/10/2017	7.9								
5/26/2017					26.2				
6/27/2017									
6/28/2017					26.1				
6/29/2017									
6/30/2017									
7/7/2017									
7/10/2017									
7/11/2017	6.71								
7/13/2017			14.1	16.6					
7/17/2017		14.1							
9/22/2017				18.4					
9/29/2017				16.1					
10/3/2017					26.7				
10/4/2017									
10/5/2017									
10/6/2017				16.6					
10/10/2017									
10/11/2017			12.4	18.1		2.74			
10/12/2017	7.05						2.9	190	44.5
10/16/2017		13.6							
11/20/2017						1.81	10.4	184	
11/21/2017									44.4
1/10/2018							10.2		
1/11/2018						1.54			43.9
1/12/2018								178	
2/19/2018		<25					<25		45.3
2/20/2018						1.71		184	
4/2/2018									
4/3/2018						1.4	6.3	174	42.7
4/4/2018	8.6		<25						
6/5/2018									
6/6/2018									
6/7/2018					25				
6/8/2018									
6/11/2018									
6/12/2018									
6/13/2018				18.7 (J)					
6/27/2018									42.2
6/28/2018						1.4	6.7	190	
8/6/2018		11.4 (J)							
8/7/2018						1.2	6.3	176	40.7
9/19/2018									
9/20/2018	15.9 (J)		12 (J)						
9/24/2018						1.1	5.7	172	38.5
9/25/2018									
9/26/2018				19.8 (J)					
9/27/2018									
10/1/2018					25				

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/4/2024 4:05 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-38	YGWC-41
10/2/2018									
2/25/2019		12.7 (J)							
3/26/2019							5.6		
3/27/2019						1.5		155	
3/28/2019	8.9		11.3 (J)						26
3/29/2019					23.5 (J)				
4/1/2019									
4/2/2019									
4/3/2019									
4/4/2019				16.9 (J)					
6/12/2019		18.9							
9/24/2019					26.4				
9/25/2019									
9/26/2019			12.1	11.7					
9/27/2019									
10/8/2019		28.3							
10/9/2019	18.2					2.4	4.9	133	27.6
3/17/2020		24.3							
3/18/2020									
3/19/2020					27.4				
3/24/2020							4.8		
3/25/2020	12.1		13.2	10.6		2.7		124	29.6
3/26/2020									
9/22/2020		31							
9/23/2020					26.3				
9/24/2020			12			3.7	4.4		
9/25/2020	19.8							93.7	20.5
10/7/2020				9.9					
3/1/2021									
3/2/2021		34.2							
3/3/2021					25.6				
3/4/2021	32.2		13	5.6		8.2	4.6	87	16.4
8/19/2021									
8/20/2021		26.5							
8/25/2021									
8/26/2021						14.1		73.6	12.8
8/27/2021					22.6				
9/1/2021			12.1						
9/3/2021				4.1			5.6		
9/27/2021	4.1								
2/8/2022	9.9	25.6	12.7			15.2	6		15
2/9/2022					23.4				
2/10/2022								68.9	
2/11/2022				4.6					
8/30/2022		23.5			25.4				
8/31/2022			11.6			16.3	6.2		
9/1/2022	10.7			6.3				59.4	12.9
2/7/2023		22.3			25.6	16.1			
2/8/2023	11						5.9	55.3	14.4
2/9/2023			11.8	9.2					
2/10/2023									
8/15/2023		20.3			23.2	17.2	5.3		

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/4/2024 4:05 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-38	YGWC-41
8/16/2023	10.7		11.1	20				50.9	13.5
2/20/2024		22.8			28.2	16.9	5.6		
2/21/2024			11.1						
2/22/2024	10.5							49.7	14.4
2/23/2024				33.6					
8/20/2024					30.4				
8/21/2024						19.7	6		
8/22/2024	14.8		10.8	41.1					
8/23/2024								43.8	13.6

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/4/2024 4:05 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-5I (bg)
6/1/2016	1.3	1.3	1.6						
6/2/2016				7.2	4.1	1.4	1.9	3.7	4.3
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016	1.3		1.4				1.7		
7/26/2016		1.2		6.6	4	1.6		3.6	4.4
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016		1.1	1.3						
9/14/2016	1.3			6.6				3.4	3.8
9/15/2016					4.2	1.5			
9/16/2016									
9/19/2016							1.6		
9/20/2016									
11/1/2016	1.4	1.3				1.7	1.8		
11/2/2016				7.6	4.9			4.5	
11/3/2016									
11/4/2016			1.6						4.8
11/8/2016									
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017					4.1				
1/11/2017	1.1	1.1				1.2			
1/12/2017				6.8					3.8
1/13/2017								4.2	
1/16/2017			1.4				1.7		
1/17/2017									
2/21/2017							1.7		
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017	1.1								
3/2/2017		1	1.3			1.2			
3/3/2017									
3/6/2017								3.6	
3/7/2017				6.8					4.5
3/8/2017					4.2				
3/9/2017									
4/26/2017	1.1				4.1	1.2	1.7		
4/27/2017		1	1.3						
4/28/2017									
5/1/2017				7.2				4.3	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/4/2024 4:05 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-5I (bg)
5/2/2017									4.6
5/8/2017									
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017		1.1	1.4	7					4.3
6/28/2017	1.2					1.3			
6/29/2017								4.2	
6/30/2017					3.7		1.8		
7/7/2017									
7/10/2017									
7/11/2017									
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017		1.1	1.7	6.5					4.2
10/4/2017	1.2					1.5	1.8		
10/5/2017					3.8			4.7	
10/6/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018		1.1							
6/6/2018			1.4	4.7					
6/7/2018						1.2		4.4	4.5
6/8/2018	1.2				3.4				
6/11/2018							2		
6/12/2018									
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/20/2018									
9/24/2018									
9/25/2018									
9/26/2018				4.8				4.8	5.1
9/27/2018									
10/1/2018	1.2	1.1	1.4		3.8	1.5			

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/4/2024 4:05 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-5I (bg)
10/2/2018							1.8		
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019		1.4	1.5						
3/29/2019					4.2				
4/1/2019	1.1					1.2	1.7		
4/2/2019									
4/3/2019				4				4.3	4.2
4/4/2019									
6/12/2019									
9/24/2019		1.1	1.3	3.7					4.5
9/25/2019	1.1				4.8	1.1	1.6	4.5	
9/26/2019									
9/27/2019									
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020			1.4		5.2				
3/19/2020	1.1	1.1				1.2	1.8		
3/24/2020				3.5					4.3
3/25/2020								3.9	
3/26/2020									
9/22/2020				3.6				4.5	4.2
9/23/2020	1	0.99 (J)	1.2			1.1			
9/24/2020							1.5		
9/25/2020					5.3				
10/7/2020									
3/1/2021							1.6		
3/2/2021				3.2	4.9				4.3
3/3/2021	0.99 (J)	0.96 (J)	1.2			1.1		4.1	
3/4/2021									
8/19/2021		1.1	1.3		5	1.1	1.6		
8/20/2021									
8/25/2021									
8/26/2021				3.4				4.4	4.3
8/27/2021	1.1								
9/1/2021									
9/3/2021									
9/27/2021									
2/8/2022									
2/9/2022	1.1	1	1.3			1.1			
2/10/2022				3.2	4.7				4.4
2/11/2022							2.1	4.1	
8/30/2022		1.3		3.5					4.4
8/31/2022	1.3		1.5		4.6	1.3	1.8	4.4	
9/1/2022									
2/7/2023		1.3	1.5	3.3					
2/8/2023	1.1				4.9	1.2	1.6		
2/9/2023								4.5	5
2/10/2023									
8/15/2023		1.1	1.4	3.1	4.1	1.1		4.4	4.1

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/4/2024 4:05 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-5I (bg)
8/16/2023	1.1						1.5		
2/20/2024	1.1	1	1.2	3.2		1.1	1.4	4.6	4.8
2/21/2024									
2/22/2024									
2/23/2024					4.8				
8/20/2024	1	1	1.3	3.4	4.5	1.1	1.4	5.2	4.8
8/21/2024									
8/22/2024									
8/23/2024									

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/4/2024 4:05 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWC-23S	YGWC-24SB	YGWC-42	YGWA-47 (bg)
6/1/2016									
6/2/2016									
6/6/2016	6.4	6.8							
6/7/2016			1.9	2.8	4.5	2.9			
6/8/2016							5.9		
7/25/2016									
7/26/2016									
7/27/2016	6.2	6.7	1.9		4.5				
7/28/2016				2.6		3.5			
8/1/2016							5.3		
8/30/2016								4.4	5.2
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016	6.1				4.5				
9/19/2016		7	1.9	2.4					
9/20/2016						2.4	5.5		
11/1/2016									
11/2/2016			2.6						
11/3/2016	7.4	7.5		2.9	5.4				
11/4/2016									
11/8/2016						2.8	6.4		
11/14/2016									6.4
11/15/2016									
11/16/2016								4.7	
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	6.1	6.5			4.7				
1/12/2017									
1/13/2017			2.3	2.5					
1/16/2017						1.8			
1/17/2017							5.5		
2/21/2017									
2/22/2017									
2/24/2017									5.5
2/27/2017								4.7	
2/28/2017									
3/1/2017	6	6.9							
3/2/2017					4.8				
3/3/2017									
3/6/2017			1.9	2.1					
3/7/2017									
3/8/2017							5.4		
3/9/2017						1.7			
4/26/2017	6.5	7	2	2.1					
4/27/2017									
4/28/2017									
5/1/2017									

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/4/2024 4:05 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWC-23S	YGWC-24SB	YGWC-42	YGWA-47 (bg)
5/2/2017					4.6	1.8	5.7		
5/8/2017									5.8
5/9/2017									
5/10/2017								4.4	
5/26/2017									
6/27/2017									
6/28/2017	6.4	7							
6/29/2017			2.6	2.8	4.5				
6/30/2017									
7/7/2017							5.7		
7/10/2017						1.9			
7/11/2017								4.7	5.8
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017				2.2					
10/4/2017	6.8		2.6		4.7				
10/5/2017		7					6		
10/6/2017									
10/10/2017									5.9
10/11/2017						2.4			
10/12/2017								4.3	
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018									4.8
4/3/2018									
4/4/2018								3.7	
6/5/2018				1.7					
6/6/2018			2.7						
6/7/2018		6.8							
6/8/2018									
6/11/2018	6.8				4.9				
6/12/2018						1.8	6.2		
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									4
9/20/2018								3.8	
9/24/2018									
9/25/2018	7.8	7.9	3.6	2.2	5.6				
9/26/2018							6.9		
9/27/2018						2			
10/1/2018									

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/4/2024 4:05 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWC-23S	YGWC-24SB	YGWC-42	YGWA-47 (bg)
10/2/2018									
2/25/2019									
3/26/2019									
3/27/2019								3.9	4.3
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019				2.5	4.8				
4/3/2019	6.3	6.9	3.1						
4/4/2019						1.7	5.9		
6/12/2019									
9/24/2019				3.1					
9/25/2019			2.8		5.7				
9/26/2019	7.1	7					6.5		
9/27/2019						1.7			
10/8/2019									4.4
10/9/2019								4.1	
3/17/2020									4.1
3/18/2020									
3/19/2020									
3/24/2020	6.8	7	2.7	2.8	5				
3/25/2020								3.2	
3/26/2020						1.6	5.4		
9/22/2020									4.2
9/23/2020	7.2	7.2			6.6		9.3		
9/24/2020			2.7	2		2		3.3	
9/25/2020									
10/7/2020									
3/1/2021									3.7
3/2/2021									
3/3/2021	7.2	7	2.7		7.1		8.6		
3/4/2021				1.8		1.8		2.7	
8/19/2021									3.5
8/20/2021									
8/25/2021						2.5		3.4	
8/26/2021	7.3								
8/27/2021		7.4	2.8		8.5				
9/1/2021				1.8			8.9		
9/3/2021									
9/27/2021									
2/8/2022									3.2
2/9/2022	7	7.5	2.8	1.7	10.9				
2/10/2022						1.9	8.7	3.3	
2/11/2022									
8/30/2022	7	7.9		2.4	12				
8/31/2022			2.9						3.5
9/1/2022						2		3.3	
2/7/2023	6.4	7.4	2.9	2.4	11.4				
2/8/2023						2		3.4	3.5
2/9/2023									
2/10/2023							9.1		
8/15/2023	6.7	7.3	2.8	2.3	11.6				3.5

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/4/2024 4:05 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWC-23S	YGWC-24SB	YGWC-42	YGWA-47 (bg)
8/16/2023						2.7	8.1	2.8	
2/20/2024		7.6	2.9	2.3	12.2				3.2
2/21/2024						2.4			
2/22/2024								3.3	
2/23/2024	6.6						8.3		
8/20/2024		7.8	3	2.3	12.7				3.6
8/21/2024	7.4					2.6			
8/22/2024							8.6	3.1	
8/23/2024									

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/4/2024 4:06 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-38	YGWC-41
6/1/2016									
6/2/2016									
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016									
7/26/2016									
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016	1.5	4							
9/1/2016			5.3						
9/2/2016				6.3					
9/13/2016									
9/14/2016					1.1				
9/15/2016									
9/16/2016									
9/19/2016									
9/20/2016									
11/1/2016									
11/2/2016									
11/3/2016									
11/4/2016					1.4				
11/8/2016									
11/14/2016				6.7					
11/15/2016			5.8						
11/16/2016	1.7								
11/28/2016		4.2							
12/15/2016					2.9				
1/10/2017									
1/11/2017									
1/12/2017									
1/13/2017									
1/16/2017					0.98				
1/17/2017									
2/21/2017									
2/22/2017		3.7							
2/24/2017	1.5								
2/27/2017			4.6						
2/28/2017				5.4					
3/1/2017									
3/2/2017									
3/3/2017					1.1				
3/6/2017									
3/7/2017									
3/8/2017									
3/9/2017									
4/26/2017									
4/27/2017									
4/28/2017					0.91				
5/1/2017									

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/4/2024 4:06 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-38	YGWC-41
5/2/2017									
5/8/2017		4.2							
5/9/2017			5.3	5.7					
5/10/2017	1.2								
5/26/2017					0.93				
6/27/2017									
6/28/2017					1				
6/29/2017									
6/30/2017									
7/7/2017									
7/10/2017									
7/11/2017	1.5								
7/13/2017			4.7	5.4					
7/17/2017		3.8							
9/22/2017				6.9					
9/29/2017				5.5					
10/3/2017					1.2				
10/4/2017									
10/5/2017									
10/6/2017				5.5					
10/10/2017									
10/11/2017			5.8	6.4		2.4			
10/12/2017	1.6						3.8	6	3.1
10/16/2017		4.2							
11/20/2017						1.8	4.4	6.9	
11/21/2017									4.2
1/10/2018							4.6		
1/11/2018						1.6			3.8
1/12/2018								6.6	
2/19/2018		4.3					4.6		3.5
2/20/2018						2		6.2	
4/2/2018									
4/3/2018						3.3	5.9	6.9	4.4
4/4/2018	1.8		4.3						
6/5/2018									
6/6/2018									
6/7/2018					1				
6/8/2018									
6/11/2018									
6/12/2018									
6/13/2018				5.6					
6/27/2018									3.6
6/28/2018						2.1	5	6.4	
8/6/2018		3.8							
8/7/2018						1.2	4.3	5.5	3.3
9/19/2018									
9/20/2018	1.9		4.8						
9/24/2018						1.3	4.9	5.9	3.3
9/25/2018									
9/26/2018				6					
9/27/2018									
10/1/2018					1.1				

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/4/2024 4:06 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-38	YGWC-41
10/2/2018									
2/25/2019		4.1							
3/26/2019							4.4		
3/27/2019						1.4		6.2	
3/28/2019	1.8		4.4						3.2
3/29/2019					1.2				
4/1/2019									
4/2/2019									
4/3/2019									
4/4/2019				5.4					
6/12/2019		4.7							
9/24/2019					0.95 (J)				
9/25/2019									
9/26/2019			5	7.1					
9/27/2019									
10/8/2019		5.1							
10/9/2019	2.3					2.1	5.1	5	3.3
3/17/2020		4.8							
3/18/2020									
3/19/2020					0.97 (J)				
3/24/2020							4.7		
3/25/2020	1.8		4.1	6.3		1.9		4	2.7
3/26/2020									
9/22/2020		4.2							
9/23/2020					0.88 (J)				
9/24/2020			4.6			2.7	5		
9/25/2020	2.3							4	3
10/7/2020				8.7					
3/1/2021									
3/2/2021		4.1							
3/3/2021					0.86 (J)				
3/4/2021	2.1		4.1	6.6		4.9	4.9	3.9	3.4
8/19/2021									
8/20/2021		5.2							
8/25/2021									
8/26/2021						7.2		4.1	3.6
8/27/2021					0.99 (J)				
9/1/2021			4.4						
9/3/2021				7			5.5		
9/27/2021	1.1								
2/8/2022	2.1	5.7	4.2			7.4	6.2		3.5
2/9/2022					1 (J)				
2/10/2022								4	
2/11/2022				6.6					
8/30/2022		6.3			1.2				
8/31/2022			4.3			6.7	6.3		
9/1/2022	2.1			6.2				4.2	3.8
2/7/2023		6.1			1.1	5.6			
2/8/2023	2.4						6.9	3.9	4
2/9/2023			4.4	5.9					
2/10/2023									
8/15/2023		5.6			0.93 (J)	4.5	5.6		

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/4/2024 4:06 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-38	YGWC-41
8/16/2023	2.3		3.8	4.9				3.7	3.7
2/20/2024		6.1			0.96 (J)	4.6	5.7		
2/21/2024			4						
2/22/2024	2.3							3.7	3.9
2/23/2024				4.8					
8/20/2024					0.91 (J)				
8/21/2024						4	5.4		
8/22/2024	2.7		4.1	4.8					
8/23/2024								4	3.9

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/4/2024 4:06 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-5D (bg)	YGWA-4I (bg)
6/1/2016	0.15 (J)	<0.1	0.12 (J)						
6/2/2016				0.62	<0.1	<0.1	<0.1	0.11 (J)	<0.1
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016	0.14 (J)	0.06 (J)			0.06 (J)				
7/26/2016			0.08 (J)	0.49		<0.1	0.02 (J)	0.05 (J)	<0.1
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016		<0.1	0.11 (J)						
9/14/2016	0.18 (J)					<0.1		0.04 (J)	<0.1
9/15/2016				0.54			<0.1		
9/16/2016									
9/19/2016					<0.1				
9/20/2016									
11/1/2016	<0.1		<0.1	0.68	<0.1				
11/2/2016							<0.1	<0.1	<0.1
11/3/2016									
11/4/2016		<0.1				<0.1			
11/8/2016									
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017							<0.1		
1/11/2017	0.09 (J)		0.05 (J)	0.49					
1/12/2017						<0.1		0.04 (J)	
1/13/2017									<0.1
1/16/2017		<0.1			<0.1				
1/17/2017									
2/21/2017					<0.1				
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017	<0.1								
3/2/2017		<0.1	<0.1	0.48					
3/3/2017									
3/6/2017									<0.1
3/7/2017						<0.1		<0.1	
3/8/2017							<0.1		
3/9/2017									
4/26/2017	0.08 (J)			0.48	<0.1		<0.1		
4/27/2017		0.01 (J)	0.04 (J)						
4/28/2017									
5/1/2017								<0.1	<0.1

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/4/2024 4:06 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-5D (bg)	YGWA-4I (bg)
5/2/2017						<0.1			
5/8/2017									
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017		<0.1	<0.1			<0.1		<0.1	
6/28/2017	0.12 (J)			0.47					
6/29/2017									<0.1
6/30/2017					<0.1		<0.1		
7/7/2017									
7/10/2017									
7/11/2017									
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017		<0.1	<0.1			<0.1		<0.1	
10/4/2017	<0.1			<0.1	<0.1				
10/5/2017							<0.1		<0.1
10/6/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
3/27/2018		<0.1			<0.1		<0.1		
3/28/2018	<0.1			0.56					
3/29/2018			<0.1			<0.1		<0.1	<0.1
3/30/2018									
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018			0.055 (J)						
6/6/2018		<0.1						0.15 (J)	
6/7/2018				0.48		<0.1			<0.1
6/8/2018	0.2 (J)						<0.1		
6/11/2018					<0.1				
6/12/2018									
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/20/2018									
9/24/2018									

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/4/2024 4:06 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-5D (bg)	YGWA-4I (bg)
9/25/2018									
9/26/2018						<0.1		<0.1	<0.1
9/27/2018									
10/1/2018	<0.1	<0.1	<0.1	0.44			<0.1		
10/2/2018					<0.1				
2/25/2019									
2/26/2019					<0.1		<0.1		
2/27/2019	0.13 (J)	<0.1	0.052 (J)	0.53					
3/4/2019						<0.1		0.19 (J)	<0.1
3/5/2019									
3/6/2019									
3/26/2019									
3/27/2019									
3/28/2019		<0.1	0.036 (J)						
3/29/2019							<0.1		
4/1/2019	0.1 (J)			0.45	<0.1				
4/2/2019									
4/3/2019						<0.1		0.047 (J)	<0.1
4/4/2019									
6/12/2019									
8/19/2019									
8/20/2019									
8/21/2019									
8/22/2019									
9/24/2019		<0.1	0.063 (J)			<0.1		0.05 (J)	
9/25/2019	0.1 (J)			0.46	<0.1		<0.1		<0.1
9/26/2019									
9/27/2019									
10/8/2019									
10/9/2019									
2/10/2020		<0.1	0.061 (J)						
2/11/2020	0.094 (J)								
2/12/2020				0.4	<0.1	<0.1	<0.1	<0.1	<0.1
3/17/2020									
3/18/2020		<0.1					<0.1		
3/19/2020	0.11 (J)		0.064 (J)	0.51	<0.1				
3/24/2020						<0.1		<0.1	
3/25/2020									<0.1
3/26/2020									
8/26/2020									
8/27/2020									
9/22/2020						<0.1		0.056 (J)	<0.1
9/23/2020	0.098 (J)	<0.1	0.058 (J)	0.47					
9/24/2020					<0.1				
9/25/2020							<0.1		
10/7/2020									
2/8/2021						<0.1		0.055 (J)	
2/9/2021									<0.1
2/10/2021	<0.1			0.43			<0.1		
2/11/2021					<0.1				
2/12/2021		<0.1	0.068 (J)						
3/1/2021					<0.1				

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/4/2024 4:06 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-5D (bg)	YGWA-4I (bg)
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									
8/25/2021									
8/26/2021						<0.1		0.061 (J)	<0.1
8/27/2021	0.12								
9/1/2021									
9/3/2021									
9/27/2021									
2/8/2022									
2/9/2022	0.097 (J)	<0.1	0.057 (J)	0.43					
2/10/2022						<0.1	<0.1	0.055 (J)	
2/11/2022					<0.1				<0.1
8/30/2022			0.093 (J)			<0.1		0.085 (J)	
8/31/2022	0.13	0.065 (J)		0.42	0.06 (J)		0.053 (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	0.064 (J)		0.059 (J)		
2/9/2023						<0.1			0.067 (J)
2/10/2023									
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				
2/20/2024	0.12	<0.1	0.086 (J)	0.45	0.051 (J)	<0.1		0.076 (J)	0.059 (J)
2/21/2024									
2/22/2024									
2/23/2024							<0.1		
8/20/2024	0.12	<0.1	0.066 (J)	0.45	<0.1	<0.1	<0.1	0.058 (J)	<0.1
8/21/2024									
8/22/2024									
8/23/2024									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/4/2024 4:06 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWC-23S	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-24SB	YGWA-47 (bg)	YGWC-42
6/1/2016									
6/2/2016									
6/6/2016	<0.1	<0.1							
6/7/2016			<0.1	<0.1	<0.1	<0.1			
6/8/2016							<0.1		
7/25/2016									
7/26/2016									
7/27/2016	<0.1	<0.1	<0.1		<0.1				
7/28/2016				0.03 (J)		0.02 (J)			
8/1/2016							<0.1		
8/30/2016								0.09 (J)	0.02 (J)
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016	<0.1				<0.1				
9/19/2016		<0.1	<0.1			0.02 (J)			
9/20/2016				<0.1			<0.1		
11/1/2016									
11/2/2016			<0.1						
11/3/2016	<0.1	<0.1			<0.1	<0.1			
11/4/2016									
11/8/2016				<0.1			<0.1		
11/14/2016								0.18 (J)	
11/15/2016									
11/16/2016									0.07 (J)
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	<0.1	<0.1			<0.1				
1/12/2017									
1/13/2017			<0.1			<0.1			
1/16/2017				<0.1					
1/17/2017							<0.1		
2/21/2017									
2/22/2017									
2/24/2017								0.05 (J)	
2/27/2017									0.06 (J)
2/28/2017									
3/1/2017	<0.1	<0.1							
3/2/2017					<0.1				
3/3/2017									
3/6/2017			<0.1			<0.1			
3/7/2017									
3/8/2017							<0.1		
3/9/2017				<0.1					
4/26/2017	<0.1	<0.1	<0.1			0.04 (J)			
4/27/2017									
4/28/2017									
5/1/2017									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/4/2024 4:06 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWC-23S	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-24SB	YGWA-47 (bg)	YGWC-42
5/2/2017				<0.1	<0.1		<0.1		
5/8/2017								0.03 (J)	
5/9/2017									
5/10/2017									<0.1
5/26/2017									
6/27/2017									
6/28/2017	<0.1	<0.1							
6/29/2017			<0.1		<0.1	<0.1			
6/30/2017									
7/7/2017							<0.1		
7/10/2017				<0.1					
7/11/2017								0.07 (J)	<0.1
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017						<0.1			
10/4/2017	<0.1		<0.1		<0.1				
10/5/2017		<0.1					<0.1		
10/6/2017									
10/10/2017								<0.1	
10/11/2017				<0.1					
10/12/2017									<0.1
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
3/27/2018									
3/28/2018	<0.1	<0.1			<0.1				
3/29/2018			<0.1			<0.1			
3/30/2018				<0.1			<0.1		
4/2/2018								<0.1	
4/3/2018									
4/4/2018									<0.1
6/5/2018						0.13 (J)			
6/6/2018			<0.1						
6/7/2018		<0.1							
6/8/2018									
6/11/2018	<0.1				<0.1				
6/12/2018				<0.1			<0.1		
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018								<0.1	
9/20/2018									0.041 (J)
9/24/2018									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/4/2024 4:06 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWC-23S	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-24SB	YGWA-47 (bg)	YGWC-42
9/25/2018	<0.1	<0.1	<0.1		<0.1	0 (J)			
9/26/2018							<0.1		
9/27/2018				<0.1					
10/1/2018									
10/2/2018									
2/25/2019									
2/26/2019									
2/27/2019									
3/4/2019									
3/5/2019	<0.1		<0.1		<0.1	0.32	<0.1		
3/6/2019		<0.1		<0.1					
3/26/2019									
3/27/2019								0.081 (J)	<0.1
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019					<0.1	0.12 (J)			
4/3/2019	<0.1	<0.1	<0.1						
4/4/2019				0.049 (J)			0.033 (J)		
6/12/2019									
8/19/2019									
8/20/2019								<0.1	
8/21/2019									
8/22/2019									<0.1
9/24/2019						0.15 (J)			
9/25/2019			<0.1		<0.1				
9/26/2019	<0.1	<0.1					0.098 (J)		
9/27/2019				0.12 (J)					
10/8/2019								0.034 (J)	
10/9/2019									<0.1
2/10/2020									
2/11/2020	<0.1	<0.1			<0.1				
2/12/2020			<0.1			0.1 (J)			
3/17/2020								<0.1	
3/18/2020									
3/19/2020									
3/24/2020	<0.1	<0.1	<0.1		<0.1	0.081 (J)			
3/25/2020									<0.1
3/26/2020				<0.1			<0.1		
8/26/2020									
8/27/2020								<0.1	
9/22/2020								<0.1	
9/23/2020	<0.1	<0.1			<0.1		<0.1		
9/24/2020			<0.1	<0.1		0.079 (J)			<0.1
9/25/2020									
10/7/2020									
2/8/2021									
2/9/2021	<0.1	<0.1	<0.1	<0.1		0.092 (J)	<0.1		
2/10/2021									<0.1
2/11/2021									
2/12/2021									
3/1/2021								<0.1	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/4/2024 4:06 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWC-23S	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-24SB	YGWA-47 (bg)	YGWC-42
3/2/2021									
3/3/2021	<0.1	<0.1	<0.1		<0.1		<0.1		
3/4/2021				<0.1		0.091 (J)			<0.1
8/19/2021								<0.1	
8/20/2021									
8/25/2021				<0.1					<0.1
8/26/2021	<0.1								
8/27/2021		<0.1	<0.1		<0.1				
9/1/2021						0.11	<0.1		
9/3/2021									
9/27/2021									
2/8/2022								<0.1	
2/9/2022	<0.1	<0.1	<0.1		<0.1	0.1			
2/10/2022				<0.1			<0.1		<0.1
2/11/2022									
8/30/2022	<0.1	<0.1			<0.1	0.1			
8/31/2022			<0.1					0.065 (J)	
9/1/2022				0.057 (J)					0.053 (J)
2/7/2023	<0.1	<0.1	<0.1		<0.1	0.1			
2/8/2023				<0.1				0.077 (J)	0.08 (J)
2/9/2023									
2/10/2023							0.051 (J)		
8/15/2023	<0.1	<0.1	<0.1		<0.1	0.061 (J)		<0.1	
8/16/2023				<0.1			<0.1		<0.1
2/20/2024		<0.1	<0.1		<0.1	0.083 (J)		0.073 (J)	
2/21/2024				<0.1					
2/22/2024									<0.1
2/23/2024	<0.1						<0.1		
8/20/2024		<0.1	<0.1		<0.1	0.062 (J)		<0.1	
8/21/2024	0.051 (J)			<0.1					
8/22/2024							<0.1		<0.1
8/23/2024									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/4/2024 4:06 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWC-41	YGWA-40 (bg)
6/1/2016									
6/2/2016									
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016									
7/26/2016									
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016	0.14 (J)	0.12 (J)							
9/1/2016			0.09 (J)						
9/2/2016				0.05 (J)					
9/13/2016									
9/14/2016					0.08 (J)				
9/15/2016									
9/16/2016									
9/19/2016									
9/20/2016									
11/1/2016									
11/2/2016									
11/3/2016									
11/4/2016					<0.1				
11/8/2016									
11/14/2016				0.18 (J)					
11/15/2016			0.16 (J)						
11/16/2016		0.2 (J)							
11/28/2016	0.12 (J)								
12/15/2016					0.06 (J)				
1/10/2017									
1/11/2017									
1/12/2017									
1/13/2017									
1/16/2017					0.1 (J)				
1/17/2017									
2/21/2017									
2/22/2017	0.09 (J)								
2/24/2017		0.21 (J)							
2/27/2017			0.06 (J)						
2/28/2017				0.09 (J)					
3/1/2017									
3/2/2017									
3/3/2017					<0.1				
3/6/2017									
3/7/2017									
3/8/2017									
3/9/2017									
4/26/2017									
4/27/2017									
4/28/2017					0.06 (J)				
5/1/2017									

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/4/2024 4:06 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWC-41	YGWA-40 (bg)
5/2/2017									
5/8/2017	0.05 (J)								
5/9/2017			0.05 (J)	0.009 (J)					
5/10/2017		0.04 (J)							
5/26/2017					0.09 (J)				
6/27/2017									
6/28/2017					0.11 (J)				
6/29/2017									
6/30/2017									
7/7/2017									
7/10/2017									
7/11/2017		0.2 (J)							
7/13/2017			<0.1	<0.1					
7/17/2017	0.14 (J)								
9/22/2017				0.09 (J)					
9/29/2017				<0.1					
10/3/2017					<0.1				
10/4/2017									
10/5/2017									
10/6/2017				<0.1					
10/10/2017									
10/11/2017			0.14 (J)	<0.1		<0.1			
10/12/2017		0.1 (J)					<0.1	<0.1	<0.1
10/16/2017	0.12 (J)								
11/20/2017						<0.1	0.2 (J)		<0.1
11/21/2017								<0.1	
1/10/2018									<0.1
1/11/2018						<0.1		<0.1	
1/12/2018							0.21 (J)		
2/19/2018	0.17							<0.1	<0.1
2/20/2018						0.23	<0.1		
3/27/2018									
3/28/2018					0.31				
3/29/2018									
3/30/2018				<0.1					
4/2/2018									
4/3/2018						<0.1	0.41	<0.1	<0.1
4/4/2018		<0.1	<0.1						
6/5/2018									
6/6/2018									
6/7/2018					0.11 (J)				
6/8/2018									
6/11/2018									
6/12/2018									
6/13/2018				<0.1					
6/27/2018								<0.1	
6/28/2018						<0.1	0.43		<0.1
8/6/2018	0.087 (J)								
8/7/2018						0.048 (J)	<0.1	0.11 (J)	<0.1
9/19/2018									
9/20/2018		<0.1	<0.1						
9/24/2018						<0.1	0.034 (J)	<0.1	<0.1

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/4/2024 4:06 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWC-41	YGWA-40 (bg)
9/25/2018									
9/26/2018				<0.1					
9/27/2018									
10/1/2018					<0.1				
10/2/2018									
2/25/2019	0.14 (J)								
2/26/2019									
2/27/2019					0.12 (J)				
3/4/2019									
3/5/2019									
3/6/2019				<0.1					
3/26/2019									<0.1
3/27/2019						<0.1	0.24 (J)		
3/28/2019		0.078 (J)	<0.1					0.1 (J)	
3/29/2019					0.13 (J)				
4/1/2019									
4/2/2019									
4/3/2019									
4/4/2019				0.043 (J)					
6/12/2019	0.12 (J)								
8/19/2019	<0.1								
8/20/2019									
8/21/2019		0.062 (J)				<0.1			<0.1
8/22/2019							<0.1	<0.1	
9/24/2019					0.081 (J)				
9/25/2019									
9/26/2019			0.09 (J)	0.094 (J)					
9/27/2019									
10/8/2019	0.052 (J)								
10/9/2019		<0.1				<0.1	<0.1	<0.1	<0.1
2/10/2020									
2/11/2020					0.075 (J)				
2/12/2020						<0.1			<0.1
3/17/2020	0.053 (J)								
3/18/2020									
3/19/2020					0.093 (J)				
3/24/2020									<0.1
3/25/2020		0.073 (J)	<0.1	<0.1		<0.1	<0.1	<0.1	
3/26/2020									
8/26/2020	0.068 (J)								
8/27/2020									
9/22/2020	0.058 (J)								
9/23/2020					0.08 (J)				
9/24/2020			<0.1			<0.1			<0.1
9/25/2020		<0.1					<0.1	<0.1	
10/7/2020				<0.1					
2/8/2021									
2/9/2021		0.058 (J)	<0.1				<0.1		
2/10/2021				<0.1	0.094 (J)	<0.1		<0.1	<0.1
2/11/2021									
2/12/2021									
3/1/2021									

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/4/2024 4:06 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWC-38	YGWC-41	YGWA-40 (bg)
3/2/2021	0.073 (J)								
3/3/2021					0.085 (J)				
3/4/2021		0.063 (J)	<0.1	<0.1		<0.1	<0.1	<0.1	<0.1
8/19/2021									
8/20/2021	0.06 (J)								
8/25/2021									
8/26/2021						0.063 (J)	<0.1	<0.1	
8/27/2021					0.12				
9/1/2021			<0.1						
9/3/2021				<0.1					<0.1
9/27/2021		0.1							
2/8/2022	0.064 (J)	0.066 (J)	<0.1			0.052 (J)		<0.1	<0.1
2/9/2022					0.094 (J)				
2/10/2022							<0.1		
2/11/2022				<0.1					
8/30/2022	0.086 (J)				0.12				
8/31/2022			<0.1			0.065 (J)			0.05 (J)
9/1/2022		0.091 (J)		<0.1			<0.1	<0.1	
2/7/2023	0.095 (J)				0.12	0.076 (J)			
2/8/2023		0.11					<0.1	<0.1	<0.1
2/9/2023			<0.1	<0.1					
2/10/2023									
8/15/2023	0.065 (J)				0.081 (J)	<0.1			<0.1
8/16/2023		0.062 (J)	<0.1	<0.1			<0.1	<0.1	
2/20/2024	0.094 (J)				0.1	0.063 (J)			<0.1
2/21/2024			<0.1						
2/22/2024		0.091 (J)					<0.1	<0.1	
2/23/2024				<0.1					
8/20/2024					0.085 (J)				
8/21/2024						0.083 (J)			0.06 (J)
8/22/2024		0.05 (J)	<0.1	<0.1					
8/23/2024							<0.1	<0.1	

Prediction Limit

Constituent: pH (S.U.) Analysis Run 11/4/2024 4:06 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-5D (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 (D)								
2/16/2016	5.64								
6/1/2016		7.46	6.33	7.72					
6/2/2016					7.84	5.75	5.46	7.67	6.36
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016			6.21	7.74					
7/26/2016		7.43			7.88	5.72	5.45	7.66	6.22
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016		7.44	6.16						
9/14/2016				7.65		5.74		7.6	6.23
9/15/2016					7.74		5.45		
9/16/2016									
9/19/2016									
9/20/2016									
11/1/2016		7.24		7.7	7.75				
11/2/2016							5.41	7.35	6.08
11/3/2016									
11/4/2016			6.29			5.61			
11/8/2016									
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016	6.23								
12/15/2016									
1/10/2017							5.37		
1/11/2017		7.3		7.53	7.66				
1/12/2017						5.71		7.49	
1/13/2017									6.19
1/16/2017			6.29						
1/17/2017									
2/21/2017									
2/22/2017	6.21								
2/24/2017									

Prediction Limit

Constituent: pH (S.U.) Analysis Run 11/4/2024 4:06 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-5D (bg)	YGWA-4I (bg)
2/27/2017									
2/28/2017									
3/1/2017				7.42					
3/2/2017		7.23	6.28		7.68				
3/3/2017									
3/6/2017									6.2
3/7/2017						5.66		7.43	
3/8/2017							5.41		
3/9/2017									
4/26/2017				7.4	7.45		5.02		
4/27/2017		6.99	6.09						
4/28/2017									
5/1/2017								7.22	6.21
5/2/2017						5.65			
5/8/2017	6.12								
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017		6.87	6.21			5.7		7.32	
6/28/2017				7.5	7.65				
6/29/2017									6.21
6/30/2017							5.39		
7/7/2017									
7/10/2017									
7/11/2017									
7/13/2017									
7/17/2017	6.03								
9/22/2017									
9/29/2017									
10/3/2017		6.81	5.98			5.79		7.48	
10/4/2017				7.45	7.49				
10/5/2017							5.49		6.16
10/6/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017	6.12								
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018	6.13								
2/20/2018									
3/27/2018			6.25				5.47		
3/28/2018				7.74	7.91				
3/29/2018		7.38				5.63		7.02	6.09
3/30/2018									
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018		7.16							

Prediction Limit

Constituent: pH (S.U.) Analysis Run 11/4/2024 4:06 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-5D (bg)	YGWA-4I (bg)
6/6/2018			6.17					7.43	
6/7/2018					7.69	5.63			6.12
6/8/2018				7.64			5.45		
6/11/2018									
6/12/2018									
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018	6.01								
8/7/2018									
9/19/2018									
9/20/2018									
9/24/2018									
9/25/2018									
9/26/2018						5.63		7.13	5.84
9/27/2018									
10/1/2018		6.8	5.9	7.47	7.39		5.39		
10/2/2018									
2/25/2019	6.51								
2/26/2019							5.46		
2/27/2019		6.84	5.8	7.54	7.55				
3/4/2019						5.75		7.46	6.18
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		7.11	6.43
4/4/2019									
6/12/2019	6.3								
8/19/2019	6.23								
8/20/2019									
8/21/2019									
8/22/2019									
9/24/2019		7.07	6.23			5.6		6.93	
9/25/2019				7.47	7.64		5.19		6.2
9/26/2019									
9/27/2019									
10/8/2019	6.28								
10/9/2019									
2/10/2020		7.2	6.1						
2/11/2020				7.09					
2/12/2020					7.83	5.83	5.48	7.52	6.15
3/17/2020	6.14								
3/18/2020			6.19				5.38		
3/19/2020		7.03		7.31	7.65				
3/24/2020						5.81		7.34	
3/25/2020									6.26
3/26/2020									

Prediction Limit

Constituent: pH (S.U.) Analysis Run 11/4/2024 4:06 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-5D (bg)	YGWA-4I (bg)
5/6/2020	6.24								
8/26/2020	5.67								
8/27/2020									
9/22/2020	5.78					5.99 (D)		7.19 (D)	5.8 (D)
9/23/2020		7.15	6.01	7.37	7.57				
9/24/2020									
9/25/2020							5.44		
10/7/2020									
2/8/2021						5.67			
2/9/2021									6.06
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		7.2	5.38	8.23	8.39				6.21
3/4/2021									
8/19/2021		6.32	6.38		5.34		7.32		
8/20/2021	5.86								
8/25/2021									
8/26/2021						5.51		7.16	5.82
8/27/2021				7.39					
9/1/2021									
9/3/2021									
9/27/2021									
2/8/2022	5.83								
2/9/2022		7.12	6.24	7.66	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			5.64	7.49	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
2/10/2023									
8/15/2023	5.3	6.98	5.88		7.69	5.58	5.03	7.34	5.99
8/16/2023				7.39					
2/20/2024	6.07	7.06	6.42	7.59	7.81	5.78		7.56	6.21
2/21/2024									
2/22/2024									
2/23/2024							5.39		
8/20/2024		7.18	5.77	7.45	7.59	5.58	5.49	7.3	6.03
8/21/2024									
8/22/2024									
8/23/2024									

Prediction Limit

Constituent: pH (S.U.) Analysis Run 11/4/2024 4:06 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-30I (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWC-23S	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-24SB	YGWA-47 (bg)
8/27/2008									
3/3/2009									
11/18/2009									
3/3/2010									
3/10/2011									
9/8/2011									
3/5/2012									
9/10/2012									
2/6/2013									
8/12/2013									
2/5/2014									
8/3/2015									
2/16/2016									
6/1/2016									
6/2/2016	5.75								
6/6/2016		6.17	5.71						
6/7/2016				5.57	5.77	5.62	6.1		
6/8/2016								5.65	
7/25/2016	5.82								
7/26/2016									
7/27/2016		6.14	5.46		5.79	5.59			
7/28/2016				5.6			6.12		
8/1/2016								5.47	
8/30/2016									5.75
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016						5.58			
9/19/2016	5.78 (D)	6.04	5.59		5.73		6.12		
9/20/2016				5.53				5.61	
11/1/2016	5.62								
11/2/2016					5.67				
11/3/2016		5.97	5.39			5.59	6.07		
11/4/2016									
11/8/2016				5.53				5.55	
11/14/2016									5.59
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017		6.05	5.48			5.59			
1/12/2017									
1/13/2017					5.79		6.41		
1/16/2017	5.72			5.59					
1/17/2017								5.53	
2/21/2017	5.67								
2/22/2017									
2/24/2017									5.49

Prediction Limit

Constituent: pH (S.U.) Analysis Run 11/4/2024 4:06 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-30I (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWC-23S	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-24SB	YGWA-47 (bg)
2/27/2017									
2/28/2017									
3/1/2017		5.94	5.41						
3/2/2017						5.54			
3/3/2017									
3/6/2017					5.63		6.34		
3/7/2017									
3/8/2017								5.62	
3/9/2017				5.56					
4/26/2017	5.56	5.99	5.4		5.66		6.32		
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017				5.61		5.47		5.46	
5/8/2017									5.58
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017									
6/28/2017		6	5.36						
6/29/2017					5.85	5.56	6.47		
6/30/2017	5.72								
7/7/2017								5.81	
7/10/2017				5.68					
7/11/2017									5.58
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017							6.56		
10/4/2017	5.87		5.32		5.83	5.57			
10/5/2017		6.11						5.45	
10/6/2017									
10/10/2017									5.49
10/11/2017				5.46					
10/12/2017									
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
3/27/2018	5.83								
3/28/2018		6.1	5.34			5.59			
3/29/2018					5.93		6.75		
3/30/2018				5.73				5.64	
4/2/2018									6.3
4/3/2018									
4/4/2018									
6/5/2018							6.09		

Prediction Limit

Constituent: pH (S.U.) Analysis Run 11/4/2024 4:06 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-30I (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWC-23S	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-24SB	YGWA-47 (bg)
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				5.63				5.64	
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									5.48
9/20/2018									
9/24/2018									
9/25/2018		5.81	4.86		5.84	5.59	6.67		
9/26/2018								5.61	
9/27/2018				5.47					
10/1/2018									
10/2/2018	5.39								
2/25/2019									
2/26/2019	5.77								
2/27/2019									
3/4/2019									
3/5/2019			5.26		6.07	5.48	7.22	5.72	
3/6/2019		5.99		5.84					
3/26/2019									
3/27/2019									5.83
3/28/2019									
3/29/2019									
4/1/2019	5.62								
4/2/2019						5.74	6.94		
4/3/2019		6.29	5.47		5.71				
4/4/2019				5.64				5.66	
6/12/2019									
8/19/2019									
8/20/2019									5.58
8/21/2019									
8/22/2019									
9/24/2019							6.87		
9/25/2019	5.69				5.86	5.49			
9/26/2019		6.04	5.2					5.52	
9/27/2019				5.77					
10/8/2019									5.59
10/9/2019									
2/10/2020									
2/11/2020		6.07	5.3			5.58			
2/12/2020	5.8				6		7.13		
3/17/2020									5.57
3/18/2020									
3/19/2020	6								
3/24/2020		5.98	5.33		5.86	5.57	6.35		
3/25/2020									
3/26/2020				5.69				5.51	

Prediction Limit

Constituent: pH (S.U.) Analysis Run 11/4/2024 4:06 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-30I (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWC-23S	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-24SB	YGWA-47 (bg)
5/6/2020									
8/26/2020									
8/27/2020									4.88
9/22/2020									5.46
9/23/2020		6.01 (D)	5.29 (D)			5.58 (D)		5.64	
9/24/2020	5.67			5.51	5.8 (D)		6.7 (D)		
9/25/2020									
10/7/2020									
2/8/2021									
2/9/2021		6.12	5.43	5.61	5.86		6.95	5.69	
2/10/2021									
2/11/2021	5.73								
2/12/2021									
3/1/2021	5.78								5.48
3/2/2021									
3/3/2021		5.89	5.31		5.89	5.52		5.7	
3/4/2021				5.44			6.8		
8/19/2021									5.5
8/20/2021									
8/25/2021				5.46					
8/26/2021			4.4						
8/27/2021		5.4			5.57	5.27			
9/1/2021							6.65	5.22	
9/3/2021									
9/27/2021									
2/8/2022									5.4
2/9/2022		5.98	5.28		5.91	5.53	6.84		
2/10/2022				5.51				4.66	
2/11/2022	5.59								
8/30/2022		5.82	5.18			4.68	6.58		
8/31/2022	5.87				5.38				5.32
9/1/2022				5.27					
2/7/2023		6	5.03		5.63	5.47	6.82		
2/8/2023	6.43			5.33					5.22
2/9/2023									
2/10/2023								5.67	
8/15/2023		5.82	5.2		7	5.54	6.84		5.69
8/16/2023	5.55			5.36				5.89	
2/20/2024	5.81	6.11			5.99	5.64	6.78		5.62
2/21/2024				5.43					
2/22/2024									
2/23/2024			5.3					5.62	
8/20/2024	6.07	5.74			6	5.45	6.6		5.48
8/21/2024			5.29	5.4					
8/22/2024								5.16	
8/23/2024									

Prediction Limit

Constituent: pH (S.U.) Analysis Run 11/4/2024 4:06 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-42	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-38	YGWC-41
8/27/2008									
3/3/2009									
11/18/2009									
3/3/2010									
3/10/2011									
9/8/2011									
3/5/2012									
9/10/2012									
2/6/2013									
8/12/2013									
2/5/2014									
8/3/2015									
2/16/2016									
6/1/2016									
6/2/2016									
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016									
7/26/2016									
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016	5.64								
8/31/2016		7.27							
9/1/2016			5.78						
9/2/2016				5.84					
9/13/2016					7.41				
9/14/2016									
9/15/2016									
9/16/2016									
9/19/2016									
9/20/2016									
11/1/2016									
11/2/2016									
11/3/2016									
11/4/2016					7.12				
11/8/2016									
11/14/2016				6.28					
11/15/2016			5.81						
11/16/2016	6.21	6.79							
11/28/2016									
12/15/2016					7.24				
1/10/2017									
1/11/2017									
1/12/2017									
1/13/2017									
1/16/2017					7.24				
1/17/2017									
2/21/2017									
2/22/2017									
2/24/2017		6.39							

Prediction Limit

Constituent: pH (S.U.) Analysis Run 11/4/2024 4:06 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-42	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-38	YGWC-41
2/27/2017	6.09		5.68						
2/28/2017				5.99					
3/1/2017									
3/2/2017									
3/3/2017					7.22				
3/6/2017									
3/7/2017									
3/8/2017									
3/9/2017									
4/26/2017									
4/27/2017									
4/28/2017					7.21				
5/1/2017									
5/2/2017									
5/8/2017									
5/9/2017			6.18	6.3					
5/10/2017	5.79	6.5							
5/26/2017					7.13				
6/27/2017									
6/28/2017					7.06				
6/29/2017									
6/30/2017									
7/7/2017									
7/10/2017									
7/11/2017	5.45	6.32							
7/13/2017			5.6	5.57					
7/17/2017									
9/22/2017				5.5					
9/29/2017				5.58					
10/3/2017					6.99				
10/4/2017									
10/5/2017									
10/6/2017				5.51					
10/10/2017									
10/11/2017			5.61	5.47		6.4			
10/12/2017	5.48	5.97					5.43	4.85	4.94
10/16/2017									
11/20/2017						6.33	5.1	4.87	
11/21/2017									4.69
1/10/2018							4.97		
1/11/2018						6.29			4.73
1/12/2018								4.78	
2/19/2018							5.6		4.96
2/20/2018						7.22		5.1	
3/27/2018									
3/28/2018					7.3				
3/29/2018									
3/30/2018				5.51					
4/2/2018									
4/3/2018						6.87	5.84	4.76	5.31
4/4/2018	5.93	6.41	5.98						
6/5/2018									

Prediction Limit

Constituent: pH (S.U.) Analysis Run 11/4/2024 4:06 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-42	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-38	YGWC-41
6/6/2018									
6/7/2018					7.29				
6/8/2018									
6/11/2018									
6/12/2018									
6/13/2018				5.5					
6/27/2018									4.78
6/28/2018						6.18	5.24	4.75	
8/6/2018									
8/7/2018						6.08	5.18	4.72	4.77
9/19/2018									
9/20/2018	5.63	5.69	5.67						
9/24/2018						5.81	5.14	4.67	4.78
9/25/2018									
9/26/2018				5.53					
9/27/2018									
10/1/2018					7.07				
10/2/2018									
2/25/2019									
2/26/2019									
2/27/2019					7.27				
3/4/2019									
3/5/2019									
3/6/2019				5.21					
3/26/2019							5.3		
3/27/2019	5.57					5.84		4.79	
3/28/2019		5.96	5.86						5
3/29/2019					7.06				
4/1/2019									
4/2/2019									
4/3/2019									
4/4/2019				5.74					
6/12/2019									
8/19/2019									
8/20/2019									
8/21/2019		5.84				5.96	5.26		
8/22/2019	5.61							4.81	4.89
9/24/2019					7.01				
9/25/2019									
9/26/2019			5.6	5.51					
9/27/2019									
10/8/2019									
10/9/2019	5.5	5.78				5.81	5.22	4.8	4.86
2/10/2020									
2/11/2020					7.38				
2/12/2020						5.97	5.3		
3/17/2020									
3/18/2020									
3/19/2020					7.22				
3/24/2020							5.29		
3/25/2020	5.53	5.79	5.69	5.49		5.78		4.89	4.87
3/26/2020									

Prediction Limit

Constituent: pH (S.U.) Analysis Run 11/4/2024 4:06 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-42	YGWC-43	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-38	YGWC-41
5/6/2020									
8/26/2020									
8/27/2020									
9/22/2020									
9/23/2020					7.22				
9/24/2020	5.55		5.62			5.7 (D)	5.43 (D)		
9/25/2020		5.75						4.9	4.95
10/7/2020				5.86					
2/8/2021									
2/9/2021		5.86	5.79					5.04	
2/10/2021	5.65			6.31	7.29	5.8	5.19		4.98
2/11/2021									
2/12/2021									
3/1/2021									
3/2/2021									
3/3/2021					7.92				
3/4/2021	5.59	5.88	5.88	5.67		5.54	5.23	5.01	4.69
8/19/2021									
8/20/2021									
8/25/2021	6.73								
8/26/2021						6.91		4.54	6.77
8/27/2021					7.14				
9/1/2021			5.15						
9/3/2021				5.06			4.75		
9/27/2021		6.08							
2/8/2022		5.82 (D)	5.79 (D)			5.78	5.26		5.07 (D)
2/9/2022					5.89				
2/10/2022	5.57							4.85	
2/11/2022				5.58					
8/30/2022					7.04				
8/31/2022			5.34			5.3	4.53		
9/1/2022	5.49	5.62		5.18				4.91	4.43
2/7/2023					6.94	5.49			
2/8/2023	5.48	5.4					5.71	5.16	4.69
2/9/2023			5.61	5.67					
2/10/2023									
8/15/2023					6.96	5.78	5		
8/16/2023	5.53	5.58	5.04	5.36				4.83	5.01
2/20/2024					7.23	5.97	5.32		
2/21/2024			5.29						
2/22/2024	5.61	5.81						5.03	4.84
2/23/2024				5.2					
8/20/2024					6.91				
8/21/2024						6	5.38		
8/22/2024	5.52	5.61	5.72	4.82					
8/23/2024								5.11	5.18

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/4/2024 4:06 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-5I (bg)
6/1/2016	12	5	4.2						
6/2/2016				20	6.6	5.8	1.3	8	1.9
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016	8.4		3.7				1.2		
7/26/2016		5.4		20	6.1	6.7		7.7	1.8
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016		2.9	5.2						
9/14/2016	8.6			19				7.5	1.8
9/15/2016					6.1	6			
9/16/2016									
9/19/2016							1.2		
9/20/2016									
11/1/2016	8.9	3.9				4.9	1.3		
11/2/2016				20	6.3			8.2	
11/3/2016									
11/4/2016			5						2
11/8/2016									
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017					5.9				
1/11/2017	8.6	3.7				4.5			
1/12/2017				19					1.9
1/13/2017								8.1	
1/16/2017			7.9				<1		
1/17/2017									
2/21/2017							1.4		
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017	9.3								
3/2/2017		4.6	7.4			4.4			
3/3/2017									
3/6/2017								8	
3/7/2017				20					2.1
3/8/2017					7				
3/9/2017									
4/26/2017	11				7	5.1	1.4		
4/27/2017		5.2	7.4						
4/28/2017									
5/1/2017				20				8.4	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/4/2024 4:06 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-5I (bg)
5/2/2017									2
5/8/2017									
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017		5.9	6.4	18					2.1
6/28/2017	12					5.4			
6/29/2017								9.2	
6/30/2017					6.5		<1		
7/7/2017									
7/10/2017									
7/11/2017									
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017		6.6	5.9	16					2.3
10/4/2017	12					6.2	1.4		
10/5/2017					7.9			9.6	
10/6/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018		6.4							
6/6/2018			4.4	8.3					
6/7/2018						6.7		8.5	2
6/8/2018	9.6				6.4				
6/11/2018							1.1		
6/12/2018									
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/20/2018									
9/24/2018									
9/25/2018									
9/26/2018				7.9				10.2	2.3
9/27/2018									
10/1/2018	9.1	5.6	4		6.8	7.1			

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/4/2024 4:06 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-5I (bg)
10/2/2018							1		
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					7.2	0.96 (J)		
4/2/2019									
4/3/2019				7				8.5	2.1
4/4/2019									
6/12/2019									
9/24/2019		5.3	4.3	5.5					2.4
9/25/2019	13.8				6.6	7	0.81 (J)	8.5	
9/26/2019									
9/27/2019									
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020			5.3		8.1				
3/19/2020	12.9	10				9	1.6		
3/24/2020				5.9					2.1
3/25/2020								8.8	
3/26/2020									
9/22/2020				5.5				8.2	2.1
9/23/2020	16.8	8.1	3.4			6.9			
9/24/2020							0.69 (J)		
9/25/2020					6.1				
10/7/2020									
3/1/2021							0.88 (J)		
3/2/2021				2.6	6				2.3
3/3/2021	9.6	9	4.4			7		7.8	
3/4/2021									
8/19/2021		8.9	4.9		6.7	7.5	1		
8/20/2021									
8/25/2021									
8/26/2021				6				8.5	2.4
8/27/2021	18.2								
9/1/2021									
9/3/2021									
9/27/2021									
2/8/2022									
2/9/2022	16	9.3	5.1			7.2			
2/10/2022				4.9	6.2				2.4
2/11/2022							2.8	7.7	
8/30/2022		10.2		5.7					2.4
8/31/2022	13.9		4.8		5.8	6.9	1.1	8	
9/1/2022									
2/7/2023		10.6	6.6	5.2					
2/8/2023	14.7				6.1	7.5	0.96 (J)		
2/9/2023								8.9	2.9
2/10/2023									
8/15/2023		9.6	4.6	4.8	6	6.8		7.5	2.2

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/4/2024 4:06 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-5I (bg)
8/16/2023	20.3						0.9 (J)		
2/20/2024	13.8	9.7	4.3	5.1		7	0.69 (J)	8.5	2.5
2/21/2024									
2/22/2024									
2/23/2024					7.1				
8/20/2024	13.7	12.2	4.9	4.3	7.6	7.7	0.74 (J)	8.7	2.6
8/21/2024									
8/22/2024									
8/23/2024									

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/4/2024 4:06 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWC-23S	YGWC-24SB	YGWC-42	YGWA-47 (bg)
6/1/2016									
6/2/2016									
6/6/2016	1.8	1.2							
6/7/2016			<1	5.2	4.4	56			
6/8/2016							<1		
7/25/2016									
7/26/2016									
7/27/2016	1.9	1.7	0.08 (J)		4.7				
7/28/2016				5.1		57			
8/1/2016							1.1		
8/30/2016								980	160
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016	1.7				4.8				
9/19/2016		1.8	0.08 (J)	4.8					
9/20/2016						68	0.38 (J)		
11/1/2016									
11/2/2016			0.1 (J)						
11/3/2016	1.9	0.69 (J)		5	5.3				
11/4/2016									
11/8/2016						79	0.39 (J)		
11/14/2016									150
11/15/2016									
11/16/2016								940	
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	1.7	<1			5.2				
1/12/2017									
1/13/2017			<1	4.3					
1/16/2017						72			
1/17/2017							<1		
2/21/2017									
2/22/2017									
2/24/2017									120
2/27/2017								940	
2/28/2017									
3/1/2017	<1	1.8							
3/2/2017					5				
3/3/2017									
3/6/2017			<1	4.5					
3/7/2017									
3/8/2017							0.29 (J)		
3/9/2017						69			
4/26/2017	1.9	1.6	<1	4.9					
4/27/2017									
4/28/2017									
5/1/2017									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/4/2024 4:06 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWC-23S	YGWC-24SB	YGWC-42	YGWA-47 (bg)
5/2/2017					5	60	0.29 (J)		
5/8/2017									120
5/9/2017									
5/10/2017								1200	
5/26/2017									
6/27/2017									
6/28/2017	<1	<1							
6/29/2017			<1	5.5	5.2				
6/30/2017									
7/7/2017							0.37 (J)		
7/10/2017						57			
7/11/2017								1300	110
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017				5.8					
10/4/2017	1.7		<1		5.3				
10/5/2017		1.6					<1		
10/6/2017									
10/10/2017									93
10/11/2017						52			
10/12/2017								1100	
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018									88.8
4/3/2018									
4/4/2018								1020	
6/5/2018				6.1					
6/6/2018			0.049 (J)						
6/7/2018		0.68 (J)							
6/8/2018									
6/11/2018	0.95 (J)				5.2				
6/12/2018						41.4	0.35 (J)		
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									75
9/20/2018								810	
9/24/2018									
9/25/2018	1.5	1	0.13 (J)	7	6.1				
9/26/2018							0.28 (J)		
9/27/2018						39.6			
10/1/2018									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/4/2024 4:06 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWC-23S	YGWC-24SB	YGWC-42	YGWA-47 (bg)
10/2/2018									
2/25/2019									
3/26/2019									
3/27/2019								831	65.9
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019				3.8	5.1				
4/3/2019	1.3	0.82 (J)	0.12 (J)						
4/4/2019						27.9	0.29 (J)		
6/12/2019									
9/24/2019				1					
9/25/2019			<1		5.5				
9/26/2019	1	0.64 (J)					0.23 (J)		
9/27/2019						30.3			
10/8/2019									52.3
10/9/2019								725	
3/17/2020									71.6
3/18/2020									
3/19/2020									
3/24/2020	0.99 (J)	<1	<1	3	5.4				
3/25/2020								642	
3/26/2020						36.5	<1		
9/22/2020									51.5
9/23/2020	1.1	0.53 (J)			5.1		<1		
9/24/2020			<1	3.6		52.5		579	
9/25/2020									
10/7/2020									
3/1/2021									51.6
3/2/2021									
3/3/2021	1	<1	<1		5.2		<1		
3/4/2021				4.5		61.7 (M1)		537	
8/19/2021									52.6
8/20/2021									
8/25/2021						68		500	
8/26/2021	1.2								
8/27/2021		0.59 (J)	<1		5.3				
9/1/2021				5			<1		
9/3/2021									
9/27/2021									
2/8/2022									50.9
2/9/2022	1.1	0.51 (J)	<1	3.9	4.8				
2/10/2022						78.7	<1	485	
2/11/2022									
8/30/2022	1.3	0.78 (J)		3.2	4.7				
8/31/2022			<1						48
9/1/2022						79		502	
2/7/2023	1.2	0.78 (J)	<1	3.8	4.9				
2/8/2023						78		494	50.5
2/9/2023									
2/10/2023							0.5 (J)		
8/15/2023	0.88 (J)	0.51 (J)	<1	4.1	4.6				47.7

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/4/2024 4:06 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWC-23S	YGWC-24SB	YGWC-42	YGWA-47 (bg)
8/16/2023						69.3	<1	451	
2/20/2024		<1	<1	3.8	4.6				51
2/21/2024						81			
2/22/2024								487	
2/23/2024	0.79 (J)						<1		
8/20/2024		0.74 (J)	<1	4	4.6				53.9
8/21/2024	1.1					89.3			
8/22/2024							<1	432	
8/23/2024									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/4/2024 4:06 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-38	YGWC-41
6/1/2016									
6/2/2016									
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016									
7/26/2016									
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016	34	29							
9/1/2016			95						
9/2/2016				72					
9/13/2016									
9/14/2016					9.4				
9/15/2016									
9/16/2016									
9/19/2016									
9/20/2016									
11/1/2016									
11/2/2016									
11/3/2016									
11/4/2016					13				
11/8/2016									
11/14/2016				110					
11/15/2016			94						
11/16/2016	240								
11/28/2016		36							
12/15/2016					1.8				
1/10/2017									
1/11/2017									
1/12/2017									
1/13/2017									
1/16/2017					11				
1/17/2017									
2/21/2017									
2/22/2017		43							
2/24/2017	89								
2/27/2017			84						
2/28/2017				110					
3/1/2017									
3/2/2017									
3/3/2017					8.8				
3/6/2017									
3/7/2017									
3/8/2017									
3/9/2017									
4/26/2017									
4/27/2017									
4/28/2017					10				
5/1/2017									

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/4/2024 4:06 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-38	YGWC-41
5/2/2017									
5/8/2017		60							
5/9/2017			91	130					
5/10/2017	100								
5/26/2017					12				
6/27/2017									
6/28/2017					11				
6/29/2017									
6/30/2017									
7/7/2017									
7/10/2017									
7/11/2017	110								
7/13/2017			88	140					
7/17/2017		63							
9/22/2017				160					
9/29/2017				160					
10/3/2017					7.9				
10/4/2017									
10/5/2017									
10/6/2017				160					
10/10/2017									
10/11/2017			86	150		20			
10/12/2017	120						17	940	400
10/16/2017		62							
11/20/2017						24	71	980	
11/21/2017									430
1/10/2018							66		
1/11/2018						23			390
1/12/2018								880	
2/19/2018		64.6					57.2		414
2/20/2018						20.6		905	
4/2/2018									
4/3/2018						24.5	49.4	872	406
4/4/2018	160		76.5						
6/5/2018									
6/6/2018									
6/7/2018					8.8				
6/8/2018									
6/11/2018									
6/12/2018									
6/13/2018				144					
6/27/2018									357
6/28/2018						22	43.8	869	
8/6/2018		42.1							
8/7/2018						20.7	40.5	879	346
9/19/2018									
9/20/2018	247		84.1						
9/24/2018						21.2	39.7	872	358
9/25/2018									
9/26/2018				160					
9/27/2018									
10/1/2018					9.1				

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/4/2024 4:06 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-38	YGWC-41
10/2/2018									
2/25/2019		42.1							
3/26/2019							34.3		
3/27/2019						17.7		851	
3/28/2019	181		82.8						258
3/29/2019					9				
4/1/2019									
4/2/2019									
4/3/2019									
4/4/2019				119					
6/12/2019		83.4							
9/24/2019					9.1				
9/25/2019									
9/26/2019			80	84.8					
9/27/2019									
10/8/2019		128							
10/9/2019	279					15	27.9	708	263
3/17/2020		98.6							
3/18/2020									
3/19/2020					12.4				
3/24/2020							25.2		
3/25/2020	164		76.1	58.8		14.3		483	214
3/26/2020									
9/22/2020		145							
9/23/2020					11.8				
9/24/2020			77			11.7	22.9		
9/25/2020	281							414	175
10/7/2020				18.2					
3/1/2021									
3/2/2021		156							
3/3/2021					10.6				
3/4/2021	328		75.1	6.3		12	21.5	356	117
8/19/2021									
8/20/2021		121							
8/25/2021									
8/26/2021						19.2		328	117
8/27/2021					16.7				
9/1/2021			79.8						
9/3/2021				13.8			21.3		
9/27/2021	56.5								
2/8/2022	133	107	73.9			14.6	17.9		109
2/9/2022					18				
2/10/2022								290	
2/11/2022				16.4					
8/30/2022		101			20.1				
8/31/2022			71			10.9	17.9		
9/1/2022	169			28.2				282	117
2/7/2023		82.4			17.8	9.7			
2/8/2023	164						17.5	251	119
2/9/2023			71.1	50.8					
2/10/2023									
8/15/2023		74.2			17.2	7.6	16.4		

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/4/2024 4:06 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-38	YGWC-41
8/16/2023	151		63.8	93.9				227	104
2/20/2024		75			23.1	8.6	17.2		
2/21/2024			65.4						
2/22/2024	147							210	109
2/23/2024				156					
8/20/2024					21.3				
8/21/2024						6.6	18.2		
8/22/2024	181		66.4	191					
8/23/2024								186	97.8

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/4/2024 4:06 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-5I (bg)
6/1/2016	150	120	54						
6/2/2016				160	46	130	36	96	66
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016	135		48				50		
7/26/2016		94		177	54	141		92	78
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016		105	67						
9/14/2016	127			187				102	73
9/15/2016					54	153			
9/16/2016									
9/19/2016							35		
9/20/2016									
11/1/2016	75	44				92	<25		
11/2/2016				181	71			115	
11/3/2016									
11/4/2016			60						75
11/8/2016									
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017					45				
1/11/2017	148	107				159			
1/12/2017				202					86
1/13/2017								67	
1/16/2017			65				47		
1/17/2017									
2/21/2017							<25		
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017	182								
3/2/2017		98	61			117			
3/3/2017									
3/6/2017								159	
3/7/2017				257					108
3/8/2017					178				
3/9/2017									
4/26/2017	92				52	181	55		
4/27/2017		116	31						
4/28/2017									
5/1/2017				165				107	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/4/2024 4:06 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-5I (bg)
5/2/2017									103
5/8/2017									
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017		89	42	189					73
6/28/2017	126					169			
6/29/2017								79	
6/30/2017					45		42		
7/7/2017									
7/10/2017									
7/11/2017									
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017		119	58	170					89
10/4/2017	147					141	31		
10/5/2017					40			95	
10/6/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018		127							
6/6/2018			96	151					
6/7/2018						95		90	142
6/8/2018	158				114				
6/11/2018							59		
6/12/2018									
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/20/2018									
9/24/2018									
9/25/2018									
9/26/2018				144				116	86
9/27/2018									
10/1/2018	138	117	60		50	165			

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/4/2024 4:06 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-5I (bg)
10/2/2018							57		
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019		87	87						
3/29/2019					63				
4/1/2019	19 (J)					149	54		
4/2/2019									
4/3/2019				142				111	83
4/4/2019									
6/12/2019									
9/24/2019		124	54	129					79
9/25/2019	159				64	157	51	117	
9/26/2019									
9/27/2019									
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020			35		57				
3/19/2020	148	116				146	47		
3/24/2020				139					68
3/25/2020								146	
3/26/2020									
9/22/2020				104				83	75
9/23/2020	155	108	15			157			
9/24/2020							51		
9/25/2020					54				
10/7/2020									
3/1/2021							23		
3/2/2021				52	67				67
3/3/2021	111	99	39			137		80	
3/4/2021									
8/19/2021		105	44		54	144	50		
8/20/2021									
8/25/2021									
8/26/2021				123				93	86
8/27/2021	155								
9/1/2021									
9/3/2021									
9/27/2021									
2/8/2022									
2/9/2022	145	105	57			154			
2/10/2022				127	56				77
2/11/2022							66	102	
8/30/2022		116		148					86
8/31/2022	137		46		51	141	33	92	
9/1/2022									
2/7/2023		131	121	180					
2/8/2023	145				56	144	43		
2/9/2023								124	59
2/10/2023									
8/15/2023		121	65	219	69	231		99	76

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/4/2024 4:06 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-5I (bg)
8/16/2023	148						48		
2/20/2024	220	130	59	639 (o)		294	55	140	137
2/21/2024									
2/22/2024									
2/23/2024					64				
8/20/2024	179	140	67	212	81	164	69	128	108
8/21/2024									
8/22/2024									
8/23/2024									

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/4/2024 4:06 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWC-23S	YGWC-24SB	YGWC-42	YGWA-47 (bg)
6/1/2016									
6/2/2016									
6/6/2016	58	120							
6/7/2016			38	60	28	130			
6/8/2016							66		
7/25/2016									
7/26/2016									
7/27/2016	35	94	74		74				
7/28/2016				81		119			
8/1/2016							56		
8/30/2016								1650	319
8/31/2016									
9/1/2016									
9/2/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016	35				67				
9/19/2016		92	45	68					
9/20/2016						132	53		
11/1/2016									
11/2/2016			53						
11/3/2016	48	104		61	41				
11/4/2016									
11/8/2016						146	58		
11/14/2016									280
11/15/2016									
11/16/2016								1420	
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	95	133			104				
1/12/2017									
1/13/2017			46	76					
1/16/2017						194			
1/17/2017							56		
2/21/2017									
2/22/2017									
2/24/2017									162
2/27/2017								1640	
2/28/2017									
3/1/2017	79	119							
3/2/2017					77				
3/3/2017									
3/6/2017			164	167					
3/7/2017									
3/8/2017							192		
3/9/2017						288			
4/26/2017	36	162	34	50					
4/27/2017									
4/28/2017									
5/1/2017									

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/4/2024 4:06 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWC-23S	YGWC-24SB	YGWC-42	YGWA-47 (bg)
5/2/2017					142	221	113		
5/8/2017									194
5/9/2017									
5/10/2017								1630	
5/26/2017									
6/27/2017									
6/28/2017	45	98							
6/29/2017			68	94	53				
6/30/2017									
7/7/2017							46		
7/10/2017						123			
7/11/2017								1800	193
7/13/2017									
7/17/2017									
9/22/2017									
9/29/2017									
10/3/2017				149					
10/4/2017	45		54		61				
10/5/2017		104					48		
10/6/2017									
10/10/2017									175
10/11/2017						100			
10/12/2017								1600	
10/16/2017									
11/20/2017									
11/21/2017									
1/10/2018									
1/11/2018									
1/12/2018									
2/19/2018									
2/20/2018									
4/2/2018									192
4/3/2018									
4/4/2018								1520	
6/5/2018				109					
6/6/2018			79						
6/7/2018		68							
6/8/2018									
6/11/2018	74				70				
6/12/2018						115	79		
6/13/2018									
6/27/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									186
9/20/2018								1240	
9/24/2018									
9/25/2018	63	109	73	122	86				
9/26/2018							59		
9/27/2018						105			
10/1/2018									

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/4/2024 4:06 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWC-23S	YGWC-24SB	YGWC-42	YGWA-47 (bg)
10/2/2018									
2/25/2019									
3/26/2019									
3/27/2019								1100	170
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019				134	72				
4/3/2019	63	89	57						
4/4/2019						85	63		
6/12/2019									
9/24/2019				157					
9/25/2019			75		81				
9/26/2019	72	126					81		
9/27/2019						96			
10/8/2019									172
10/9/2019								1170	
3/17/2020									165
3/18/2020									
3/19/2020									
3/24/2020	59	91	76	117	71				
3/25/2020								1200	
3/26/2020						110	67		
9/22/2020									141
9/23/2020	81	103			99		87		
9/24/2020			69	113		129		1060	
9/25/2020									
10/7/2020									
3/1/2021									145
3/2/2021									
3/3/2021	37	95	53		57		70		
3/4/2021				110		96		501	
8/19/2021									134
8/20/2021									
8/25/2021						141		886	
8/26/2021	31								
8/27/2021		112	67		93				
9/1/2021				137			96		
9/3/2021									
9/27/2021									
2/8/2022									151
2/9/2022	60	103	72	131	81				
2/10/2022						180	78	882	
2/11/2022									
8/30/2022	52	100		122	81				
8/31/2022			62						116
9/1/2022						191		934	
2/7/2023	55	96	89	163	78				
2/8/2023						158		853	141
2/9/2023									
2/10/2023							66		
8/15/2023	81	96	62	126	74				186

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/4/2024 4:06 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWC-23S	YGWC-24SB	YGWC-42	YGWA-47 (bg)
8/16/2023						170	68	904	
2/20/2024		129	164	156	77				159
2/21/2024						192			
2/22/2024								881	
2/23/2024	52						75		
8/20/2024		128	75	143	86				155
8/21/2024	79					193			
8/22/2024							82	830	
8/23/2024									

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/4/2024 4:06 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-38	YGWC-41
6/1/2016									
6/2/2016									
6/6/2016									
6/7/2016									
6/8/2016									
7/25/2016									
7/26/2016									
7/27/2016									
7/28/2016									
8/1/2016									
8/30/2016									
8/31/2016	80	209							
9/1/2016			228						
9/2/2016				243					
9/13/2016									
9/14/2016					152				
9/15/2016									
9/16/2016									
9/19/2016									
9/20/2016									
11/1/2016									
11/2/2016									
11/3/2016									
11/4/2016					148				
11/8/2016									
11/14/2016				272					
11/15/2016			211						
11/16/2016	112								
11/28/2016		102							
12/15/2016					191				
1/10/2017									
1/11/2017									
1/12/2017									
1/13/2017									
1/16/2017					180				
1/17/2017									
2/21/2017									
2/22/2017		164							
2/24/2017	147								
2/27/2017			382						
2/28/2017				306					
3/1/2017									
3/2/2017									
3/3/2017					156				
3/6/2017									
3/7/2017									
3/8/2017									
3/9/2017									
4/26/2017									
4/27/2017									
4/28/2017					130				
5/1/2017									

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/4/2024 4:06 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-38	YGWC-41
5/2/2017									
5/8/2017		145							
5/9/2017			154	303					
5/10/2017	203								
5/26/2017					223				
6/27/2017									
6/28/2017					166				
6/29/2017									
6/30/2017									
7/7/2017									
7/10/2017									
7/11/2017	238								
7/13/2017			192	282					
7/17/2017		185							
9/22/2017				309					
9/29/2017				273					
10/3/2017					153				
10/4/2017									
10/5/2017									
10/6/2017				287					
10/10/2017									
10/11/2017			177	264		68			
10/12/2017	287						74	1360	636
10/16/2017		218							
11/20/2017						139	179	1390	
11/21/2017									706
1/10/2018							140		
1/11/2018						153			701
1/12/2018								1400	
2/19/2018		173					119		630
2/20/2018						87		1300	
4/2/2018									
4/3/2018						85	106	1390	660
4/4/2018	292		174						
6/5/2018									
6/6/2018									
6/7/2018					146				
6/8/2018									
6/11/2018									
6/12/2018									
6/13/2018				292					
6/27/2018									575
6/28/2018						88	112	1310	
8/6/2018		158							
8/7/2018						89	103	1340	574
9/19/2018									
9/20/2018	434		186						
9/24/2018						82	107	1400	588
9/25/2018									
9/26/2018				277					
9/27/2018									
10/1/2018					155				

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/4/2024 4:06 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-38	YGWC-41
10/2/2018									
2/25/2019		92							
3/26/2019							90		
3/27/2019						75		1190	
3/28/2019	323		164						372
3/29/2019					150				
4/1/2019									
4/2/2019									
4/3/2019									
4/4/2019				240					
6/12/2019		226							
9/24/2019					146				
9/25/2019									
9/26/2019			192	198					
9/27/2019									
10/8/2019		276							
10/9/2019	501					119	98	1100	440
3/17/2020		185							
3/18/2020									
3/19/2020					148				
3/24/2020							84		
3/25/2020	352		130	164		158		883	428
3/26/2020									
9/22/2020		281							
9/23/2020					161				
9/24/2020			187			170	77		
9/25/2020	494							664	307
10/7/2020				137					
3/1/2021									
3/2/2021		296							
3/3/2021					138				
3/4/2021	592		145	69		168	57	600	224
8/19/2021									
8/20/2021		254							
8/25/2021									
8/26/2021						249		562	225
8/27/2021					150				
9/1/2021			163						
9/3/2021				89			88		
9/27/2021	158								
2/8/2022	294	283	164			248	93		226
2/9/2022					156				
2/10/2022								541	
2/11/2022				81					
8/30/2022		244			153				
8/31/2022			207			242	92		
9/1/2022	366			108				499	205
2/7/2023		207			159	224			
2/8/2023	333						115	579	257
2/9/2023			145	116					
2/10/2023									
8/15/2023		230			157	225	83		

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/4/2024 4:06 PM View: Appendix III

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-43	GWA-2 (bg)	YGWC-49	YGWC-36A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-38	YGWC-41
8/16/2023	356		159	234				460	266
2/20/2024		214			159	233	109		
2/21/2024			173						
2/22/2024	313							403	224
2/23/2024				308					
8/20/2024					184				
8/21/2024						235	94		
8/22/2024	412		159	783					
8/23/2024								418	225

FIGURE F.

Appendix III Trend Tests - Significant Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 10/17/2024, 10:08 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	YGWA-39 (bg)	0.01793	115	81	Yes	20	5	n/a	0.01	NP
Boron (mg/L)	YGWA-40 (bg)	-0.01202	-131	-81	Yes	20	0	n/a	0.01	NP
Boron (mg/L)	YGWA-5D (bg)	0.0007069	99	98	Yes	23	26.09	n/a	0.01	NP
Boron (mg/L)	YGWC-38	-2.993	-167	-81	Yes	20	0	n/a	0.01	NP
Boron (mg/L)	YGWC-41	-1.765	-142	-81	Yes	20	0	n/a	0.01	NP
Boron (mg/L)	YGWC-42	-1.319	-124	-81	Yes	20	0	n/a	0.01	NP
Boron (mg/L)	YGWC-43	0.3505	117	81	Yes	20	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-17S (bg)	0.1465	186	98	Yes	23	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-18S (bg)	-0.06725	-171	-98	Yes	23	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-39 (bg)	2.49	121	81	Yes	20	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-5D (bg)	-1.034	-107	-98	Yes	23	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-5I (bg)	0.06991	145	98	Yes	23	0	n/a	0.01	NP
Calcium (mg/L)	YGWC-38	-24.77	-176	-81	Yes	20	0	n/a	0.01	NP
Calcium (mg/L)	YGWC-42	-9.931	-146	-81	Yes	20	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-47 (bg)	-0.8737	-132	-81	Yes	20	5	n/a	0.01	NP
Calcium (mg/L)	GWA-2 (bg)	2.258	92	81	Yes	20	5	n/a	0.01	NP
Calcium (mg/L)	YGWA-1D (bg)	0.5198	135	98	Yes	23	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-1I (bg)	-0.07033	-126	-98	Yes	23	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-3I (bg)	0.478	103	98	Yes	23	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18I (bg)	-0.09033	-116	-98	Yes	23	21.74	n/a	0.01	NP
Sulfate (mg/L)	YGWA-39 (bg)	-2.451	-142	-81	Yes	20	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-40 (bg)	-5.801	-141	-81	Yes	20	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5D (bg)	-2.152	-197	-98	Yes	23	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5I (bg)	0.0842	177	98	Yes	23	0	n/a	0.01	NP
Sulfate (mg/L)	YGWC-38	-123.3	-179	-81	Yes	20	0	n/a	0.01	NP
Sulfate (mg/L)	YGWC-42	-86.93	-151	-81	Yes	20	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-47 (bg)	-10.68	-149	-81	Yes	20	0	n/a	0.01	NP
Sulfate (mg/L)	GWA-2 (bg)	9.755	89	81	Yes	20	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-1D (bg)	0.8848	191	98	Yes	23	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-2I (bg)	1.44	132	98	Yes	23	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3D (bg)	0.2355	132	98	Yes	23	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3I (bg)	0.8717	133	98	Yes	23	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-21I (bg)	9.422	118	98	Yes	23	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-39 (bg)	25.35	110	81	Yes	20	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-38	-163.4	-152	-81	Yes	20	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-42	-110	-142	-81	Yes	20	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-43	31.41	94	81	Yes	20	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-47 (bg)	-9.336	-108	-81	Yes	20	0	n/a	0.01	NP

Appendix III Trend Tests - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 10/17/2024, 10:08 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	YGWA-17S (bg)	0.0006852	91	98	No	23	21.74	n/a	0.01	NP
Boron (mg/L)	YGWA-18I (bg)	0	-6	-98	No	23	82.61	n/a	0.01	NP
Boron (mg/L)	YGWA-18S (bg)	0.001019	79	98	No	23	30.43	n/a	0.01	NP
Boron (mg/L)	YGWA-20S (bg)	0	-1	-98	No	23	91.3	n/a	0.01	NP
Boron (mg/L)	YGWA-21I (bg)	0	-14	-98	No	23	60.87	n/a	0.01	NP
Boron (mg/L)	**YGWA-39 (bg)**	**0.01793**	**115**	**81**	**Yes**	**20**	**5**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWA-40 (bg)**	**-0.01202**	**-131**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWA-4I (bg)	0	25	98	No	23	73.91	n/a	0.01	NP
Boron (mg/L)	**YGWA-5D (bg)**	**0.0007069**	**99**	**98**	**Yes**	**23**	**26.09**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWA-5I (bg)	0	3	98	No	23	69.57	n/a	0.01	NP
Boron (mg/L)	YGWC-23S	0.01363	24	98	No	23	0	n/a	0.01	NP
Boron (mg/L)	**YGWC-38**	**-2.993**	**-167**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWC-41**	**-1.765**	**-142**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWC-42**	**-1.319**	**-124**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWC-43**	**0.3505**	**117**	**81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWA-47 (bg)	-0.0002753	-20	-81	No	20	10	n/a	0.01	NP
Boron (mg/L)	GWA-2 (bg)	0	26	81	No	20	65	n/a	0.01	NP
Boron (mg/L)	YGWA-14S (bg)	-0.0003528	-52	-98	No	23	8.696	n/a	0.01	NP
Boron (mg/L)	YGWA-1D (bg)	0.001231	72	98	No	23	43.48	n/a	0.01	NP
Boron (mg/L)	YGWA-1I (bg)	0	-15	-98	No	23	69.57	n/a	0.01	NP
Boron (mg/L)	YGWA-2I (bg)	0	10	98	No	23	82.61	n/a	0.01	NP
Boron (mg/L)	YGWA-30I (bg)	0	-7	-98	No	23	86.96	n/a	0.01	NP
Boron (mg/L)	YGWA-3D (bg)	0	32	98	No	23	65.22	n/a	0.01	NP
Boron (mg/L)	YGWA-3I (bg)	0	-9	-98	No	23	91.3	n/a	0.01	NP
Calcium (mg/L)	**YGWA-17S (bg)**	**0.1465**	**186**	**98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-18I (bg)	0.07089	76	98	No	23	0	n/a	0.01	NP
Calcium (mg/L)	**YGWA-18S (bg)**	**-0.06725**	**-171**	**-98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-20S (bg)	0.0333	76	98	No	23	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-21I (bg)	0.4708	89	98	No	23	0	n/a	0.01	NP
Calcium (mg/L)	**YGWA-39 (bg)**	**2.49**	**121**	**81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-40 (bg)	-0.194	-49	-81	No	20	5	n/a	0.01	NP
Calcium (mg/L)	YGWA-4I (bg)	0.07686	35	98	No	23	0	n/a	0.01	NP
Calcium (mg/L)	**YGWA-5D (bg)**	**-1.034**	**-107**	**-98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-5I (bg)**	**0.06991**	**145**	**98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWC-38**	**-24.77**	**-176**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWC-42**	**-9.931**	**-146**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-47 (bg)**	**-0.8737**	**-132**	**-81**	**Yes**	**20**	**5**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**GWA-2 (bg)**	**2.258**	**92**	**81**	**Yes**	**20**	**5**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-14S (bg)	0.0116	52	98	No	23	0	n/a	0.01	NP
Calcium (mg/L)	**YGWA-1D (bg)**	**0.5198**	**135**	**98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-1I (bg)**	**-0.07033**	**-126**	**-98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-2I (bg)	0.2349	40	98	No	23	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-30I (bg)	0.02573	95	98	No	23	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-3D (bg)	0.2967	79	98	No	23	0	n/a	0.01	NP
Calcium (mg/L)	**YGWA-3I (bg)**	**0.478**	**103**	**98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWC-36A	0.3248	18	98	No	23	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-17S (bg)	-0.02522	-31	-98	No	23	0	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-18I (bg)**	**-0.09033**	**-116**	**-98**	**Yes**	**23**	**21.74**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-18S (bg)	-0.1025	-92	-98	No	23	8.696	n/a	0.01	NP
Sulfate (mg/L)	YGWA-20S (bg)	0	66	98	No	23	73.91	n/a	0.01	NP
Sulfate (mg/L)	YGWA-21I (bg)	-0.1633	-78	-98	No	23	0	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-39 (bg)**	**-2.451**	**-142**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-40 (bg)**	**-5.801**	**-141**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-4I (bg)	0.04104	35	98	No	23	0	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-5D (bg)**	**-2.152**	**-197**	**-98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**

Appendix III Trend Tests - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 10/17/2024, 10:08 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Sulfate (mg/L)	**YGWA-5I (bg)**	**0.0842**	**177**	**98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWC-38**	**-123.3**	**-179**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWC-42**	**-86.93**	**-151**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWC-43	8.879	48	81	No	20	0	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-47 (bg)**	**-10.68**	**-149**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GWA-2 (bg)**	**9.755**	**89**	**81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-14S (bg)	0	4	98	No	23	0	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-1D (bg)**	**0.8848**	**191**	**98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-1I (bg)	-0.0608	-23	-98	No	23	0	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-2I (bg)**	**1.44**	**132**	**98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-30I (bg)	-0.05021	-71	-98	No	23	8.696	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-3D (bg)**	**0.2355**	**132**	**98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-3I (bg)**	**0.8717**	**133**	**98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWC-36A	-7.3	-36	-98	No	23	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-17S (bg)	1.977	61	98	No	23	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-18I (bg)	0	0	98	No	23	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-18S (bg)	1.351	37	98	No	23	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-20S (bg)	3.147	79	98	No	23	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**YGWA-21I (bg)**	**9.422**	**118**	**98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**YGWA-39 (bg)**	**25.35**	**110**	**81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	YGWA-40 (bg)	-4.535	-52	-81	No	20	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-4I (bg)	2.511	47	98	No	23	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-5D (bg)	-6.667	-55	-92	No	22	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-5I (bg)	0.3453	16	98	No	23	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**YGWC-38**	**-163.4**	**-152**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**YGWC-42**	**-110**	**-142**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**YGWC-43**	**31.41**	**94**	**81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**YGWA-47 (bg)**	**-9.336**	**-108**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	GWA-2 (bg)	12.15	73	81	No	20	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-14S (bg)	1.387	58	98	No	23	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-1D (bg)	3.259	87	98	No	23	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-1I (bg)	0.5267	11	98	No	23	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-2I (bg)	0.4303	17	98	No	23	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-30I (bg)	1.995	62	98	No	23	8.696	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-3D (bg)	3.614	60	98	No	23	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-3I (bg)	3.381	54	98	No	23	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-36A	-25.82	-77	-98	No	23	0	n/a	0.01	NP

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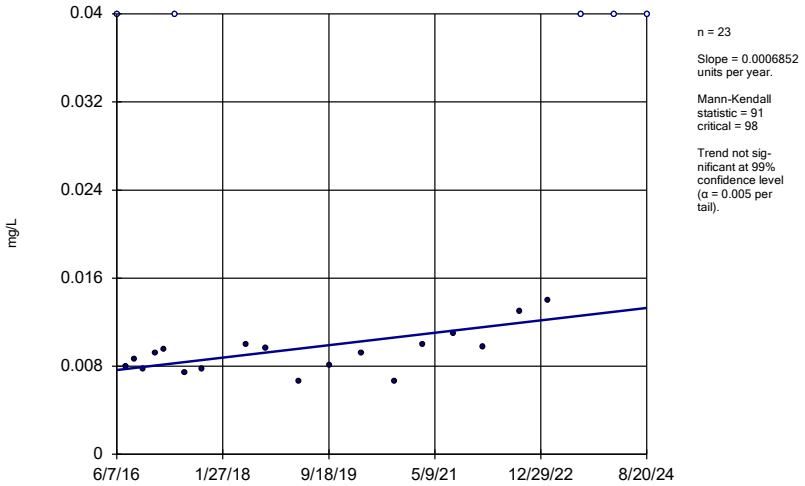
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-17S (bg)



n = 23

Slope = 0.0006852 units per year.

Mann-Kendall statistic = 91
critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/17/2024 10:00 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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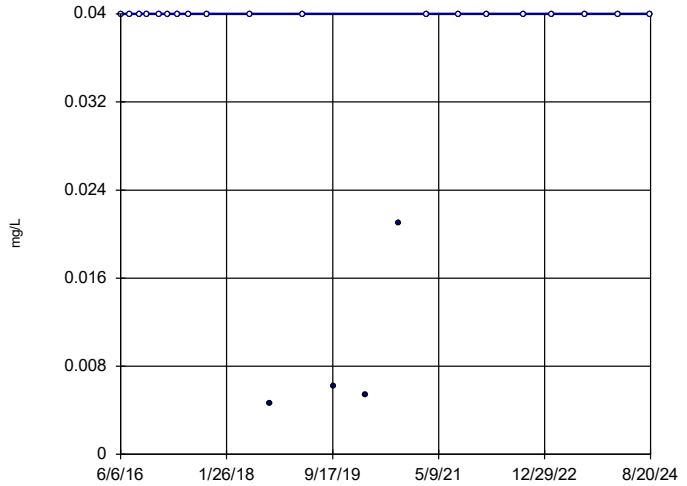
Sen's Slope Estimator

YGWA-18I (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = -6
critical = -98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/17/2024 10:00 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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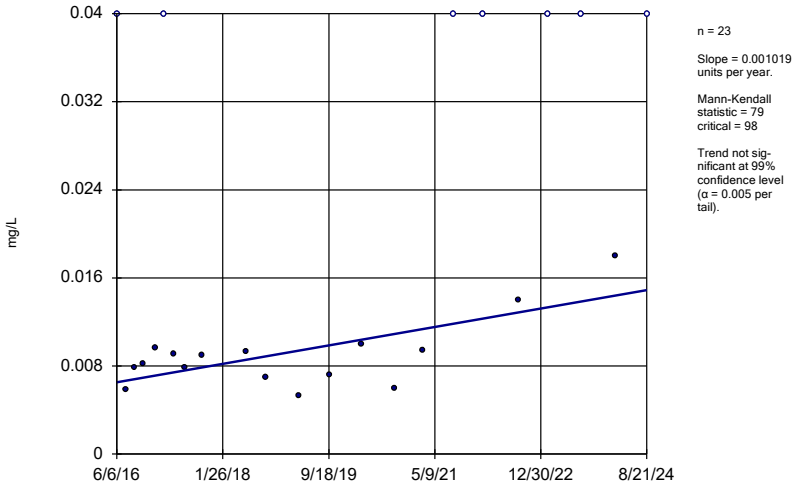
Sen's Slope Estimator

YGWA-18S (bg)



n = 23

Slope = 0.001019 units per year.

Mann-Kendall statistic = 79
critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/17/2024 10:00 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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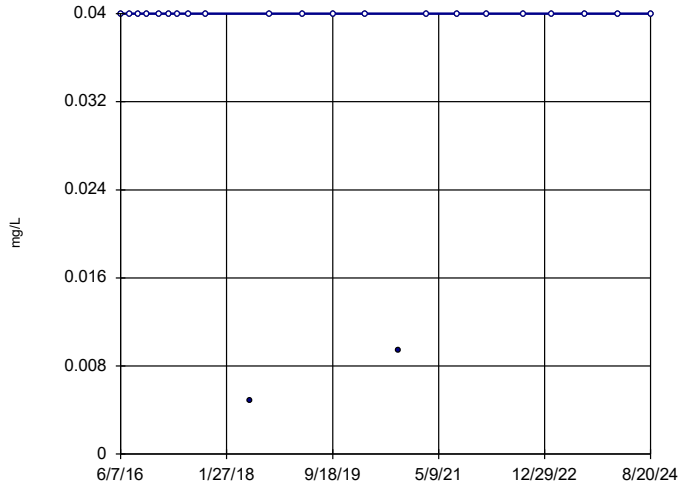
Sen's Slope Estimator

YGWA-20S (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = -1
critical = -98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/17/2024 10:00 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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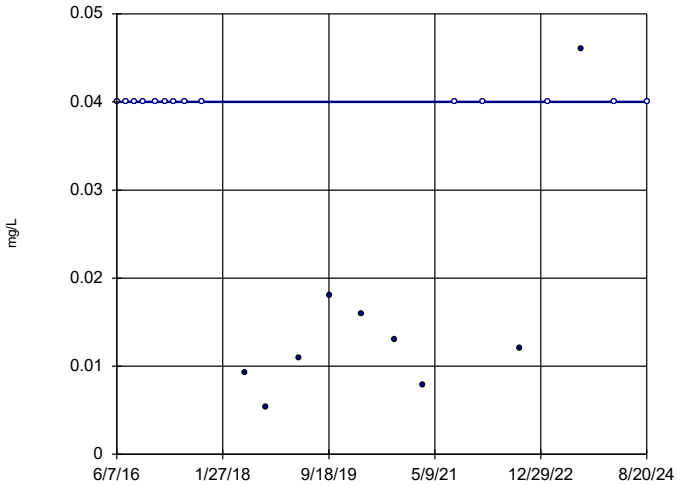
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-21I (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = -14
critical = -98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/17/2024 10:00 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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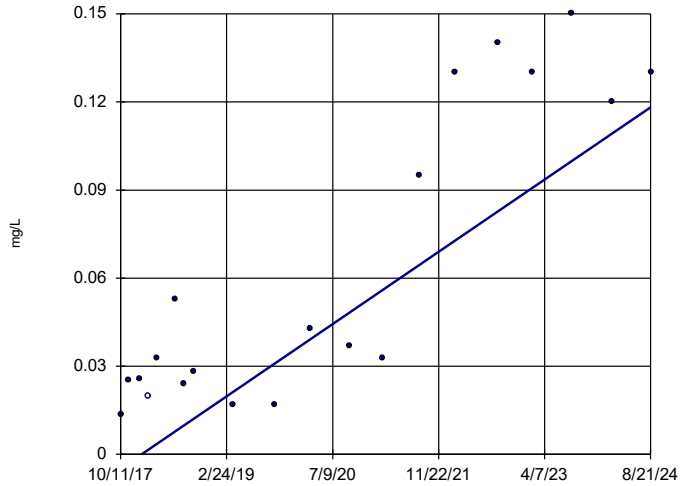
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-39 (bg)



n = 20

Slope = 0.01793 units per year.

Mann-Kendall statistic = 115
critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/17/2024 10:00 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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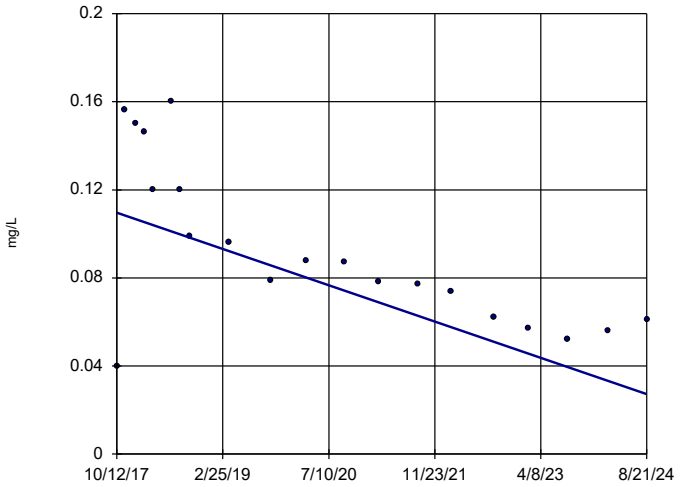
Sen's Slope Estimator

YGWA-40 (bg)



n = 20

Slope = -0.01202 units per year.

Mann-Kendall statistic = -131
critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/17/2024 10:00 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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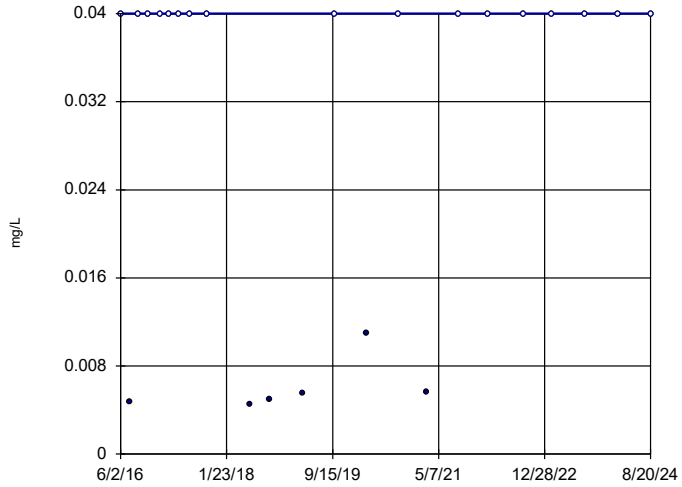
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-4I (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = 25
critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/17/2024 10:00 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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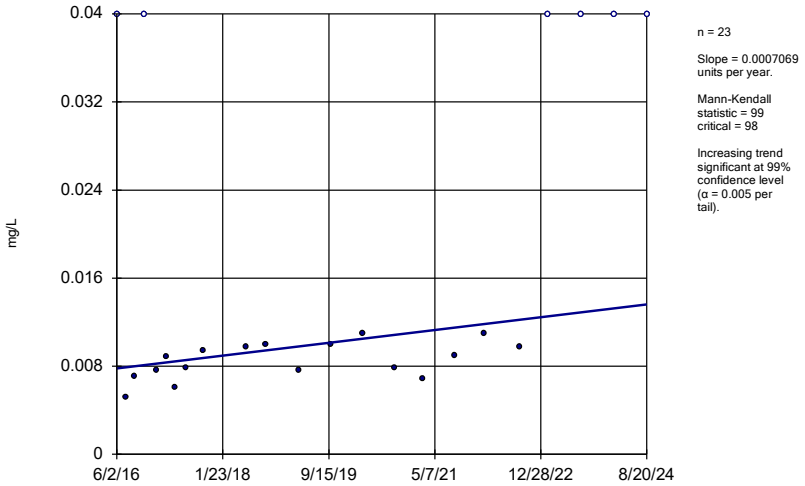
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5D (bg)



n = 23

Slope = 0.0007069 units per year.

Mann-Kendall statistic = 99
critical = 98

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/17/2024 10:00 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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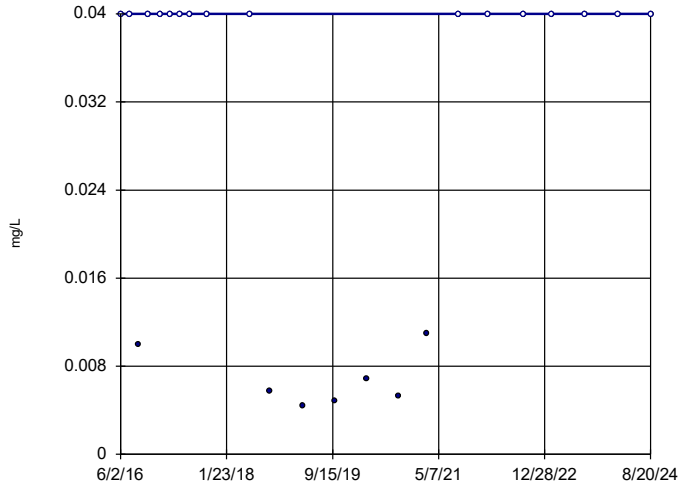
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5I (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = 3
critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/17/2024 10:00 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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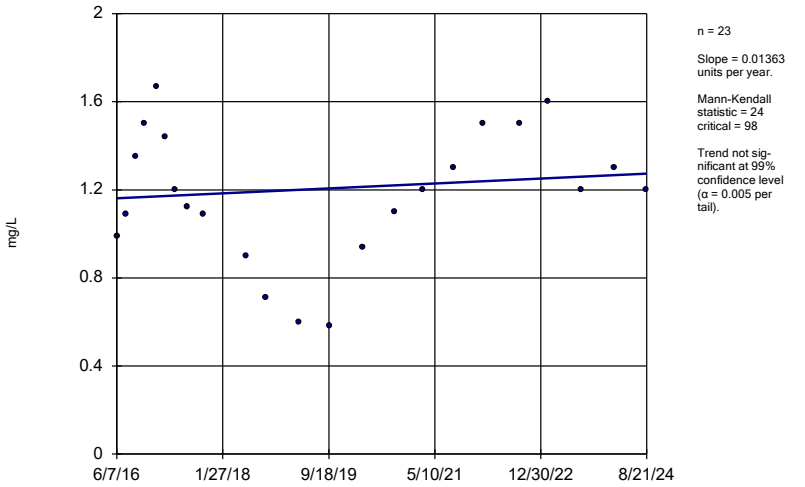
Sen's Slope Estimator

YGWC-23S



n = 23

Slope = 0.01363 units per year.

Mann-Kendall statistic = 24
critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/17/2024 10:00 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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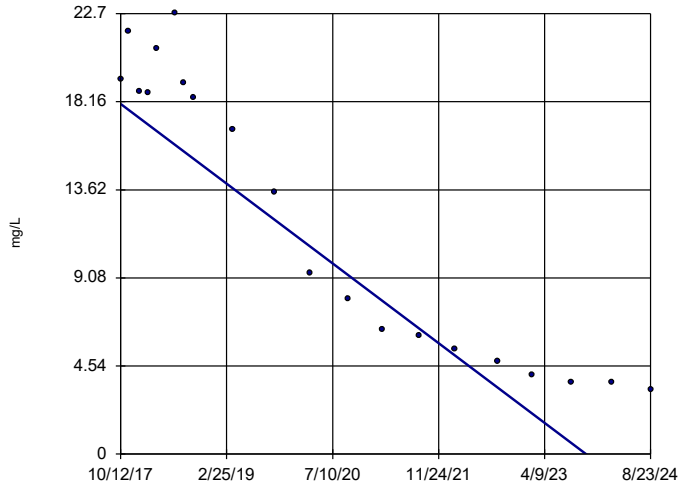
Sen's Slope Estimator

YGWC-38



n = 20

Slope = -2.993 units per year.

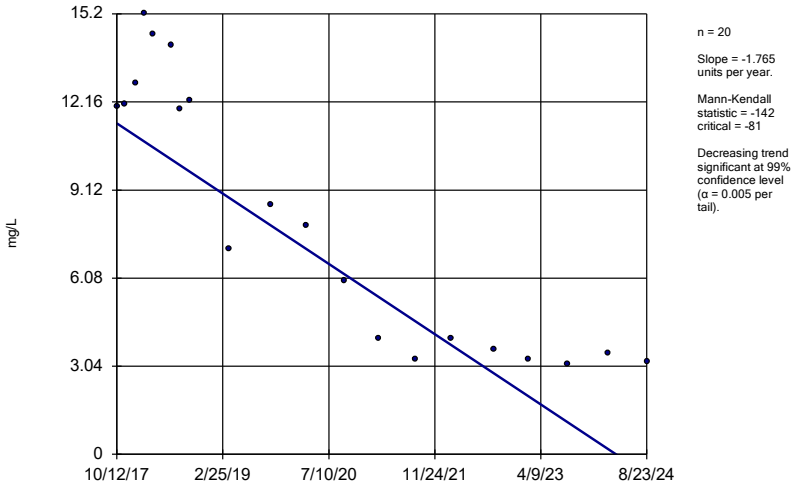
Mann-Kendall statistic = -167
critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/17/2024 10:00 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWC-41



n = 20

Slope = -1.765 units per year.

Mann-Kendall statistic = -142
critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/17/2024 10:00 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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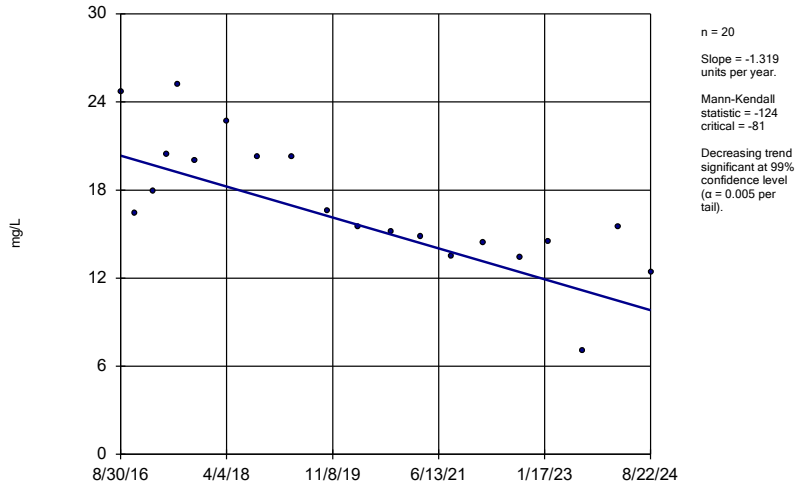
Sen's Slope Estimator

YGWC-42



n = 20

Slope = -1.319 units per year.

Mann-Kendall statistic = -124
critical = -81

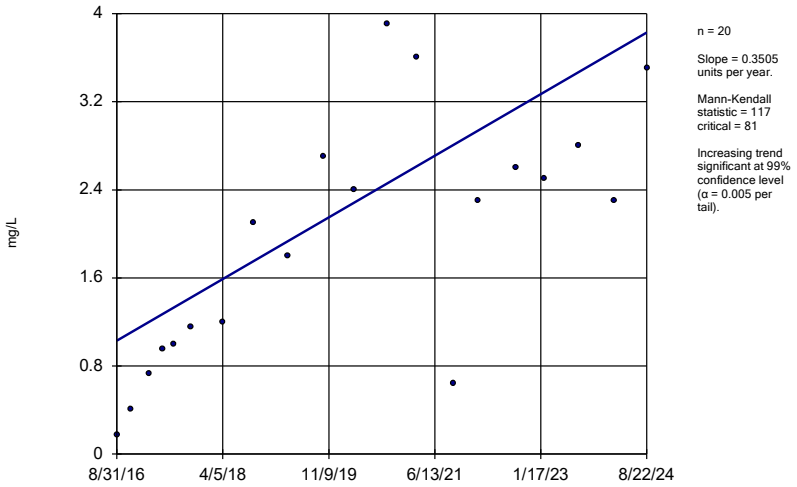
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/17/2024 10:00 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-43



n = 20

Slope = 0.3505 units per year.

Mann-Kendall statistic = 117
critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/17/2024 10:00 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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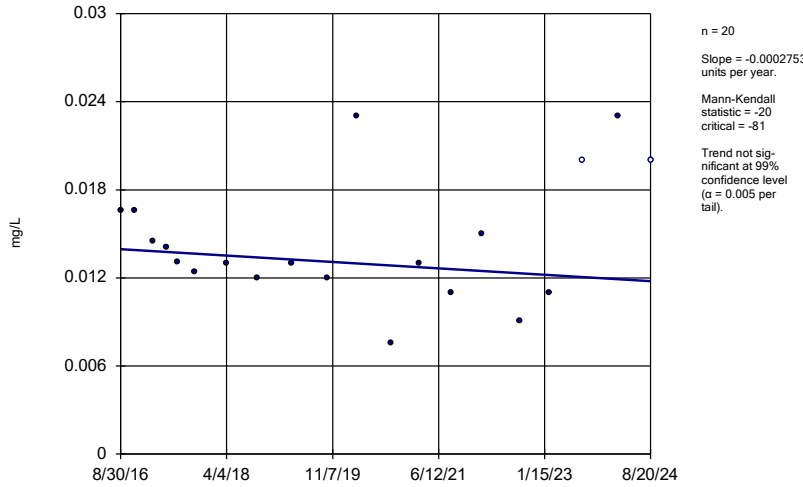
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-47 (bg)



n = 20

Slope = -0.0002753 units per year.

Mann-Kendall statistic = -20
critical = -81

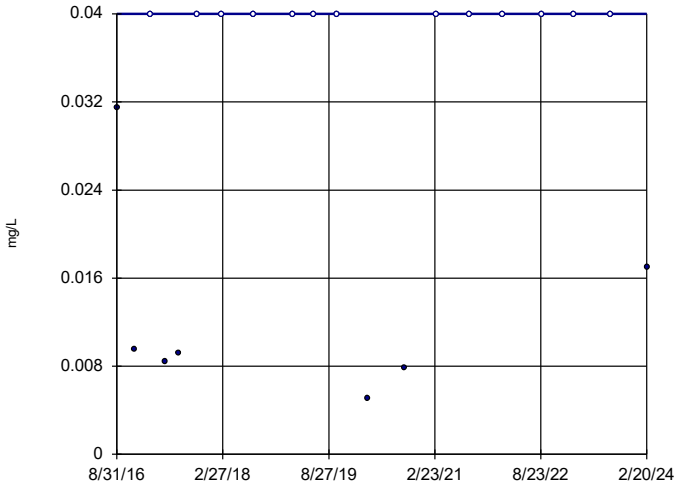
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/17/2024 10:00 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.22 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

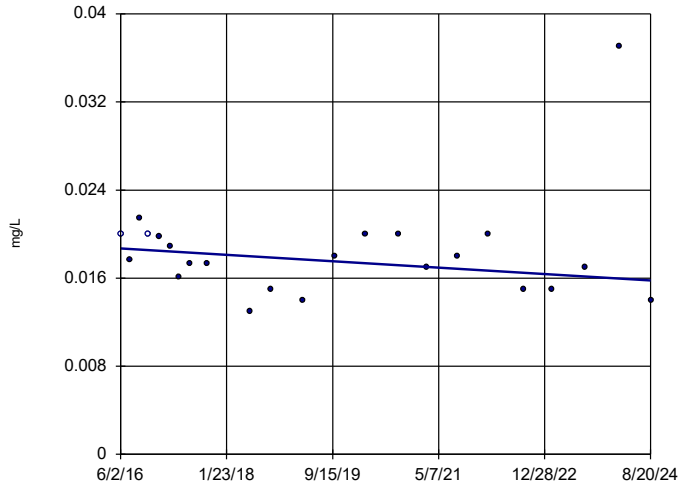
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/17/2024 10:00 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-14S (bg)



n = 23

Slope = -0.0003528 units per year.

Mann-Kendall statistic = -52
critical = -98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/17/2024 10:00 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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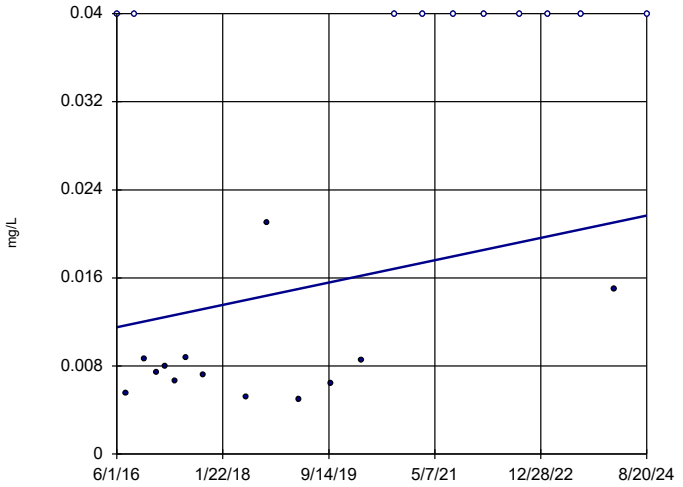
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-1D (bg)



n = 23

Slope = 0.001231 units per year.

Mann-Kendall statistic = 72
critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/17/2024 10:00 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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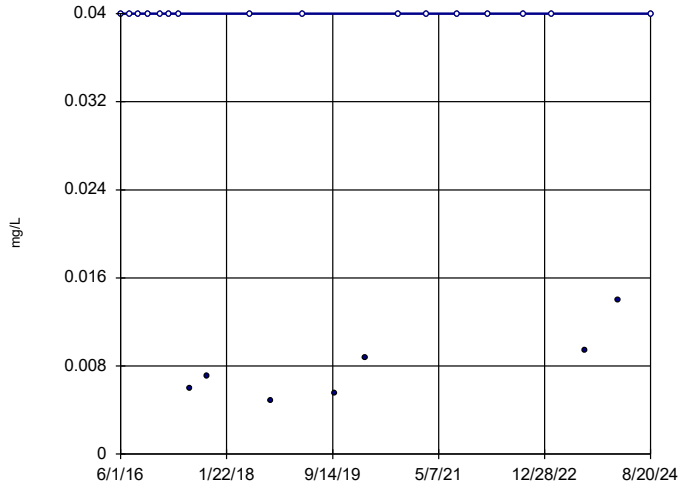
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-1I (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = -15
critical = -98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/17/2024 10:00 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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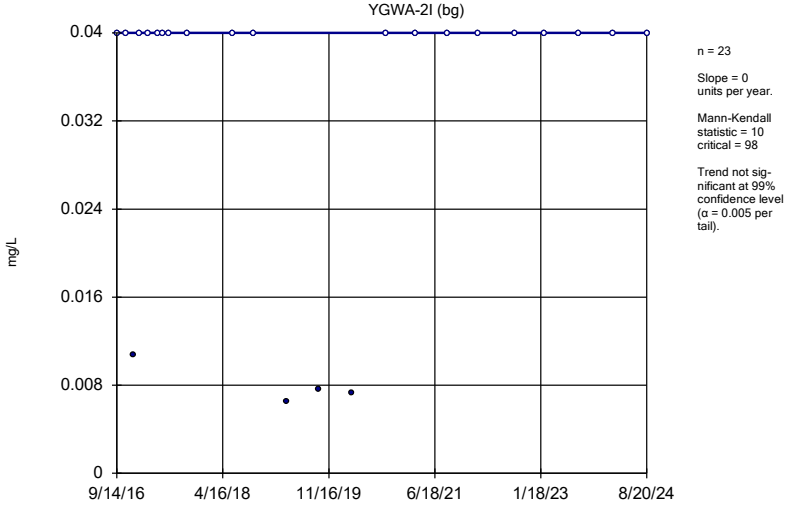
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-2I (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = 10
critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/17/2024 10:00 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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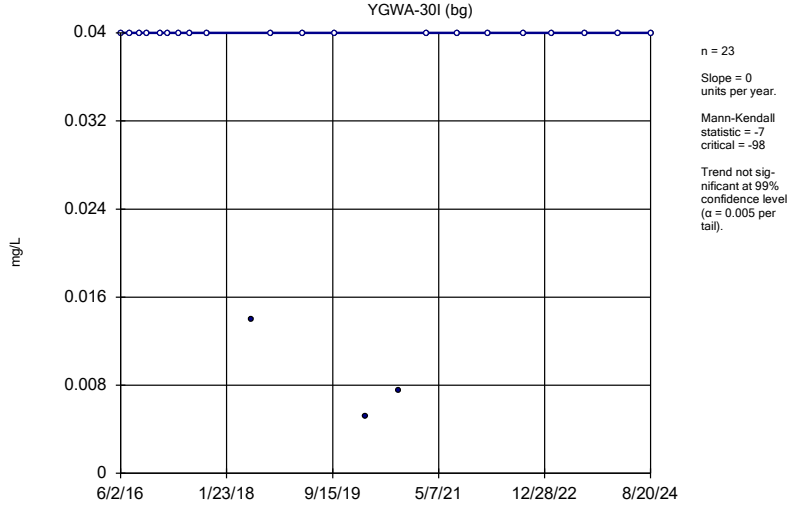
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-30I (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = -7
critical = -98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/17/2024 10:00 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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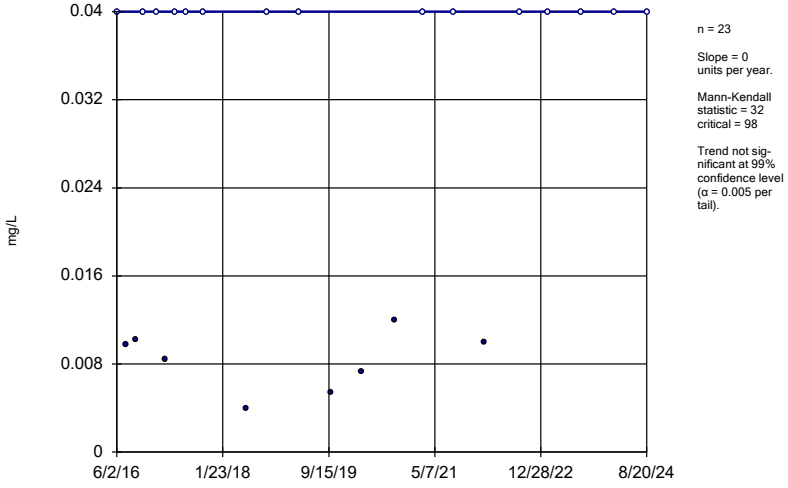
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3D (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = 32
critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/17/2024 10:00 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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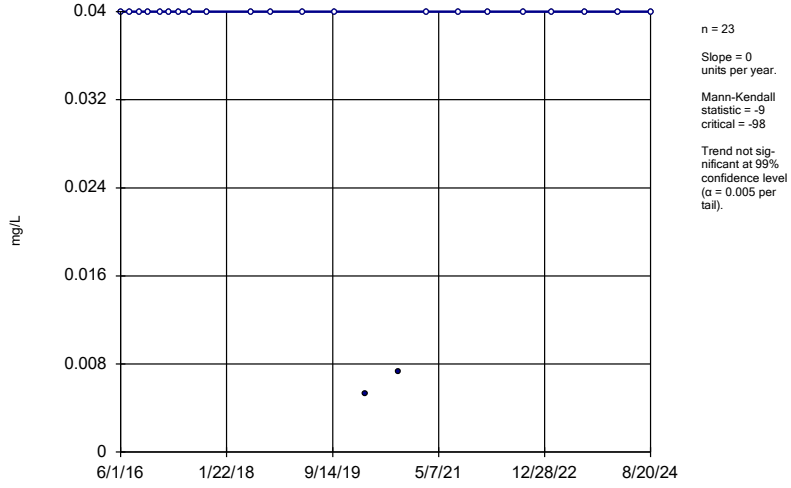
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3I (bg)



n = 23

Slope = 0 units per year.

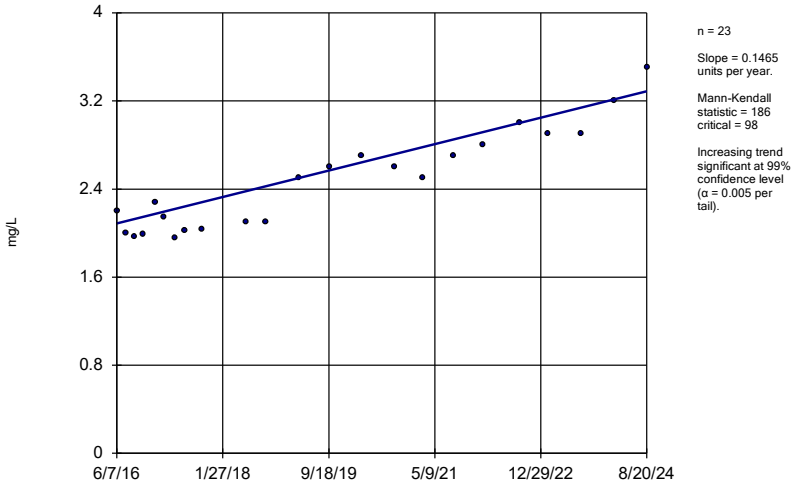
Mann-Kendall statistic = -9
critical = -98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/17/2024 10:00 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-17S (bg)



n = 23

Slope = 0.1465 units per year.

Mann-Kendall statistic = 186 critical = 98

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/17/2024 10:00 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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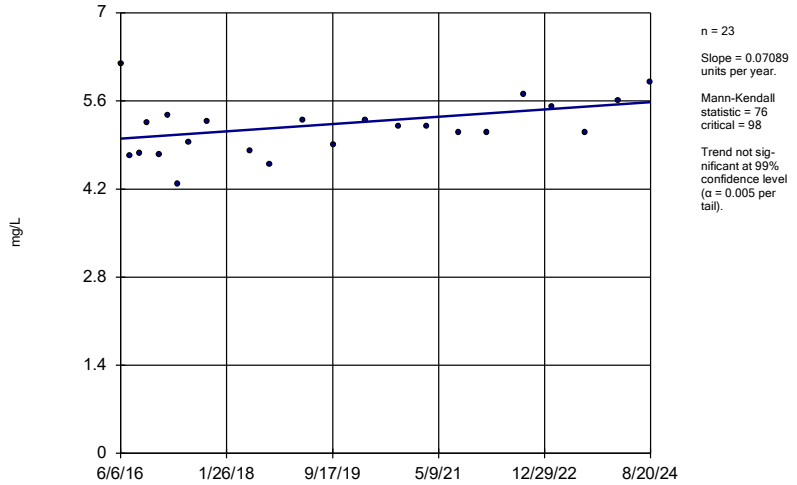
Sen's Slope Estimator

YGWA-18I (bg)



n = 23

Slope = 0.07089 units per year.

Mann-Kendall statistic = 76 critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/17/2024 10:00 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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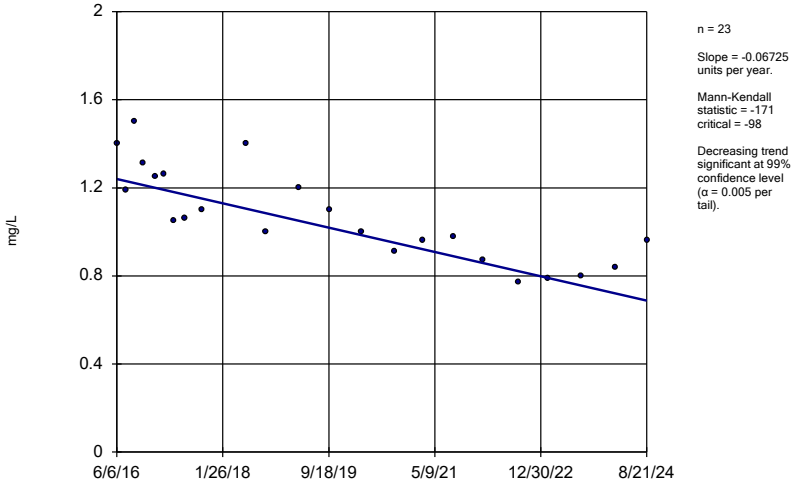
Sen's Slope Estimator

YGWA-18S (bg)



n = 23

Slope = -0.06725 units per year.

Mann-Kendall statistic = -171 critical = -98

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/17/2024 10:00 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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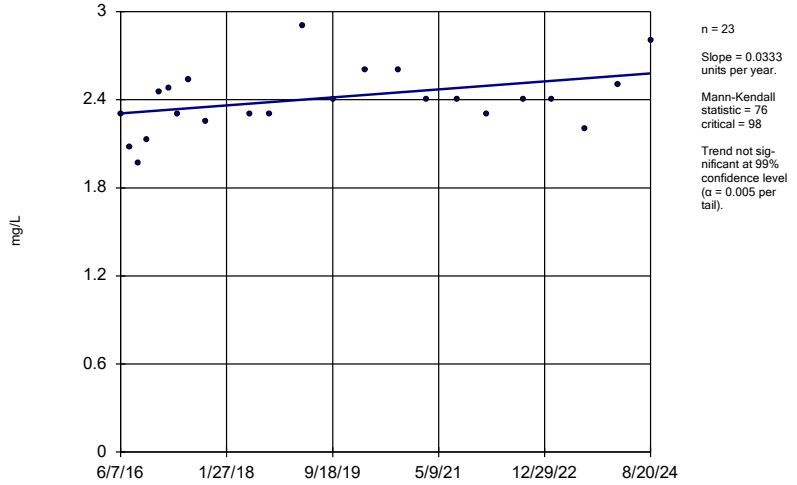
Sen's Slope Estimator

YGWA-20S (bg)



n = 23

Slope = 0.0333 units per year.

Mann-Kendall statistic = 76 critical = 98

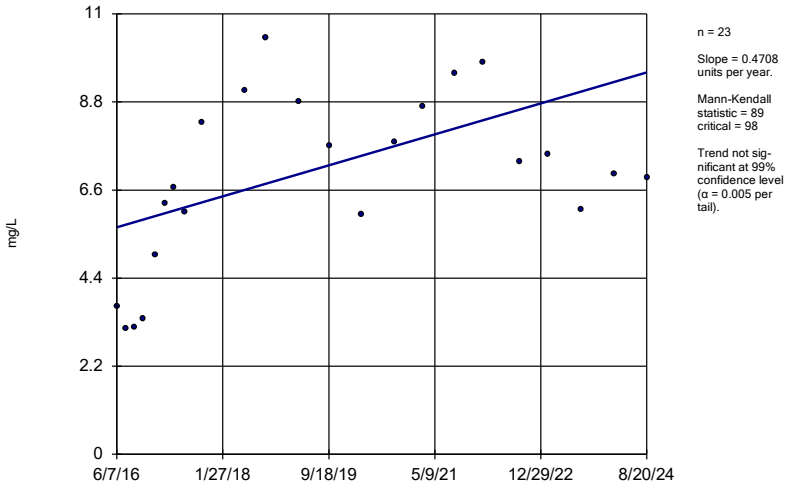
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/17/2024 10:00 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-21I (bg)



n = 23

Slope = 0.4708 units per year.

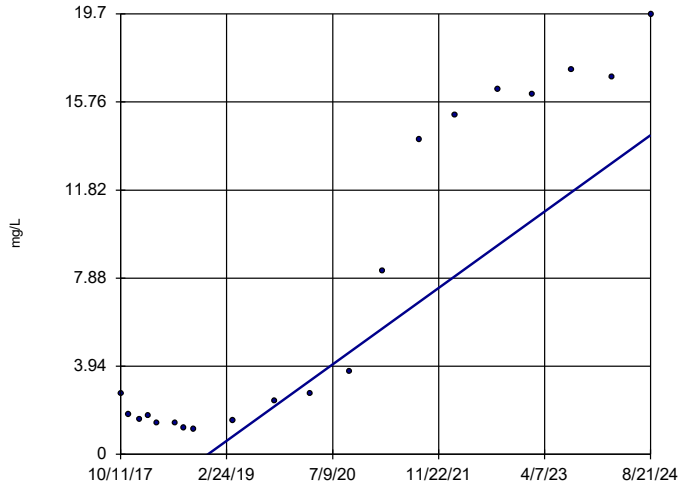
Mann-Kendall statistic = 89
critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/17/2024 10:00 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-39 (bg)



n = 20

Slope = 2.49 units per year.

Mann-Kendall statistic = 121
critical = 81

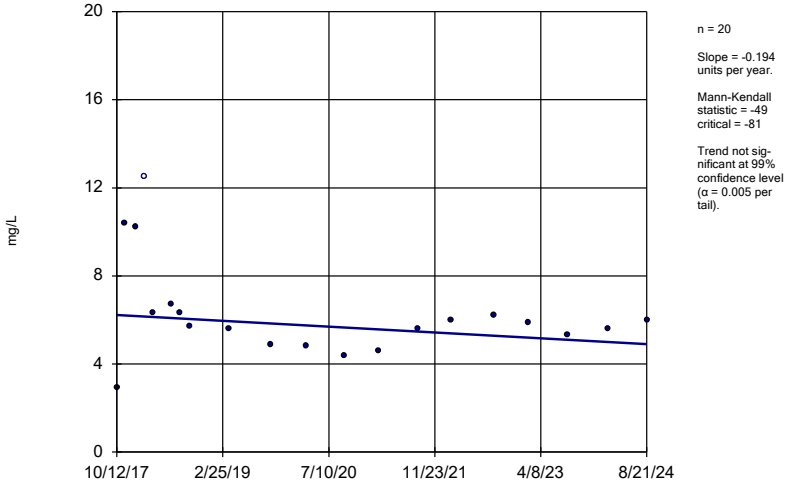
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/17/2024 10:00 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-40 (bg)



n = 20

Slope = -0.194 units per year.

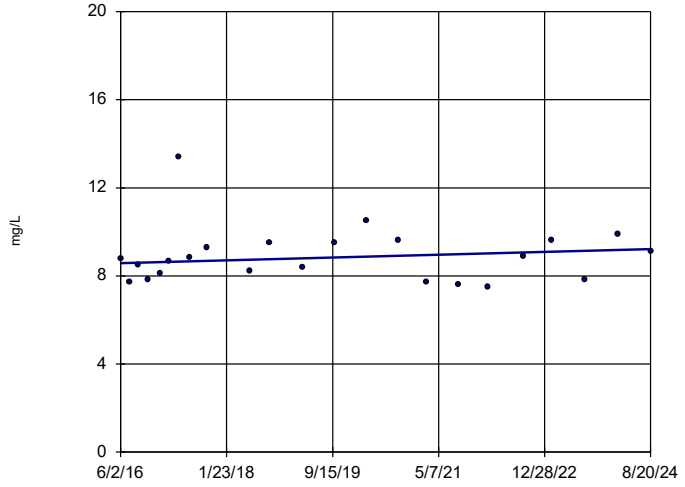
Mann-Kendall statistic = -49
critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/17/2024 10:00 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-4I (bg)



n = 23

Slope = 0.07686 units per year.

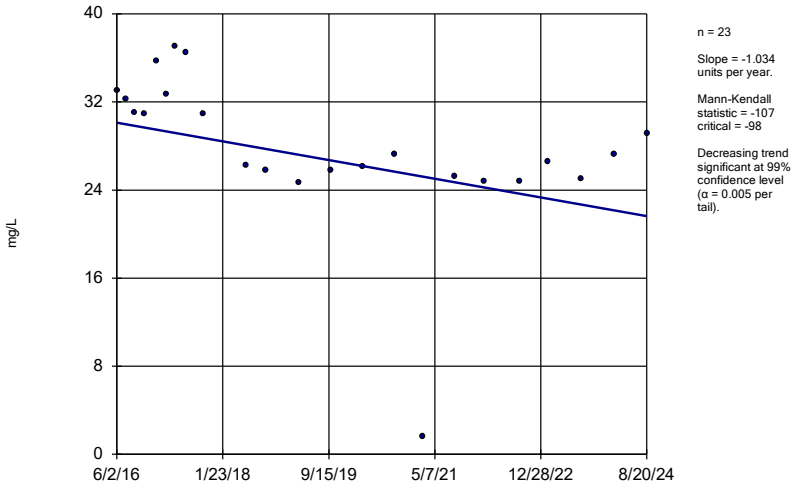
Mann-Kendall statistic = 35
critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/17/2024 10:00 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-5D (bg)



n = 23

Slope = -1.034 units per year.

Mann-Kendall statistic = -107
critical = -98

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/17/2024 10:00 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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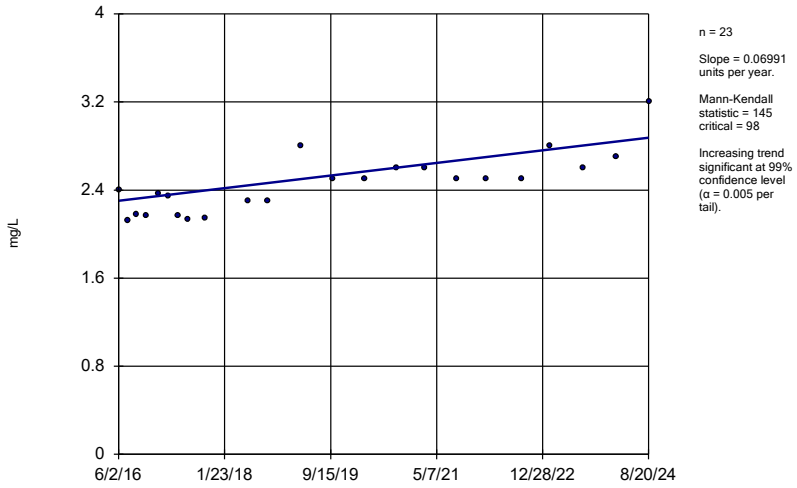
Sen's Slope Estimator

YGWA-5I (bg)



n = 23

Slope = 0.06991 units per year.

Mann-Kendall statistic = 145
critical = 98

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/17/2024 10:00 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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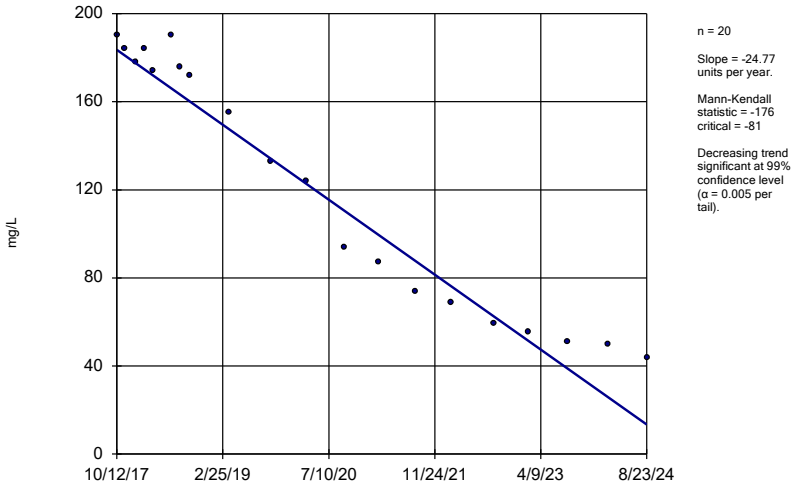
Sen's Slope Estimator

YGWC-38



n = 20

Slope = -24.77 units per year.

Mann-Kendall statistic = -176
critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/17/2024 10:00 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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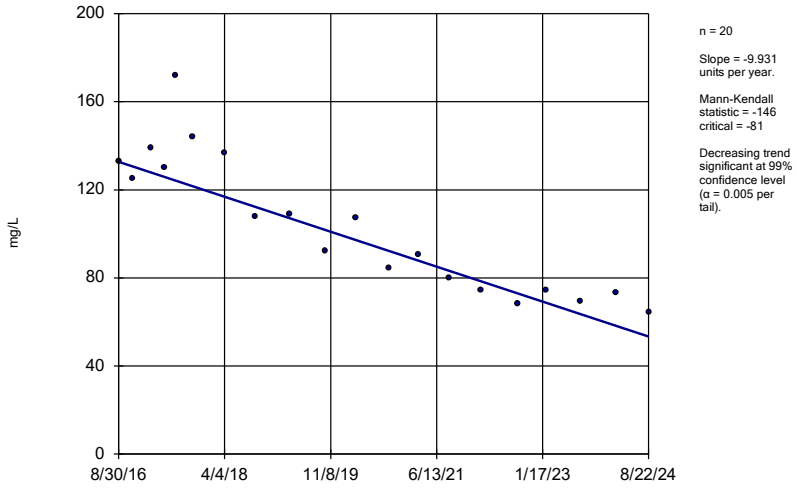
Sen's Slope Estimator

YGWC-42



n = 20

Slope = -9.931 units per year.

Mann-Kendall statistic = -146
critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/17/2024 10:00 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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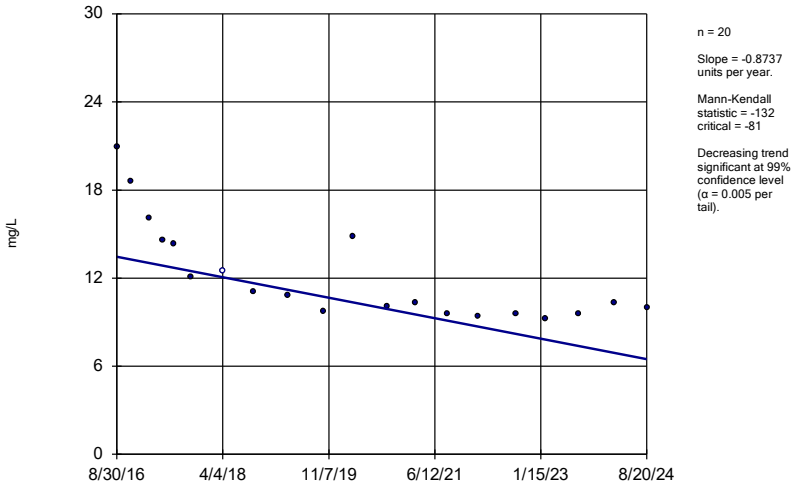
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-47 (bg)



n = 20

Slope = -0.8737 units per year.

Mann-Kendall statistic = -132
critical = -81

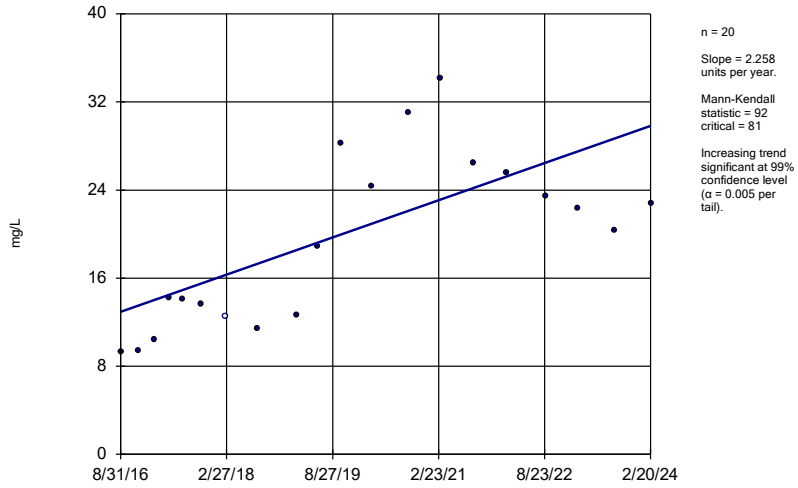
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/17/2024 10:00 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-2 (bg)



n = 20

Slope = 2.258 units per year.

Mann-Kendall statistic = 92
critical = 81

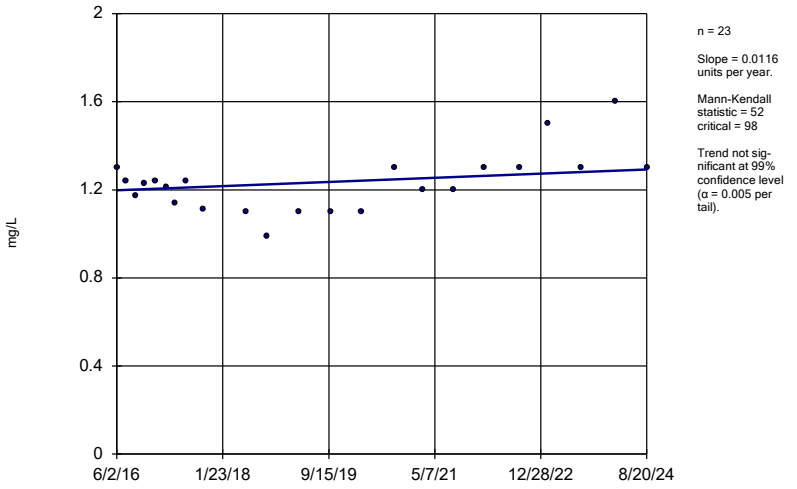
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/17/2024 10:00 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-14S (bg)



n = 23

Slope = 0.0116 units per year.

Mann-Kendall statistic = 52
critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/17/2024 10:00 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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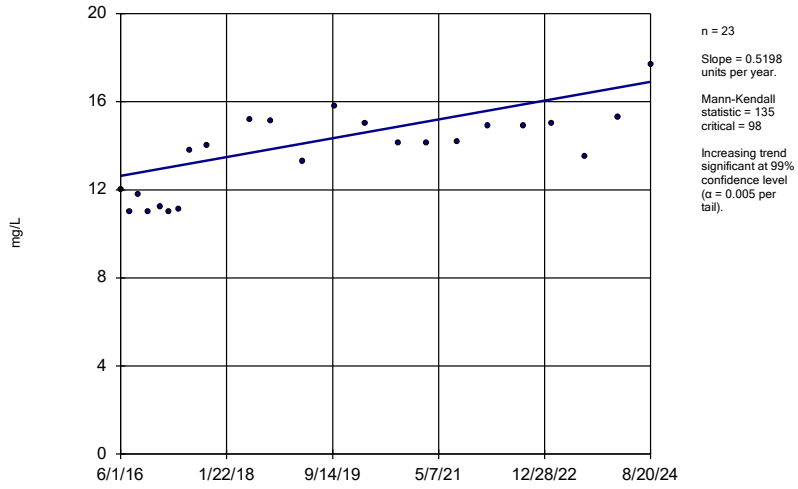
Sen's Slope Estimator

YGWA-1D (bg)



n = 23

Slope = 0.5198 units per year.

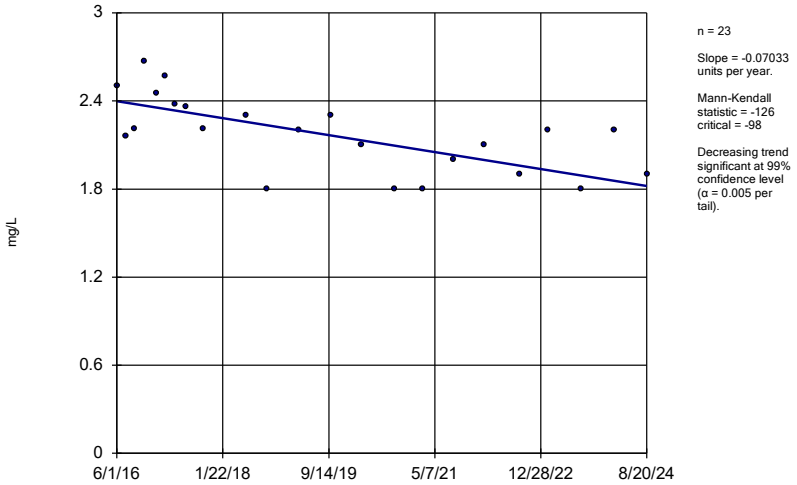
Mann-Kendall statistic = 135
critical = 98

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/17/2024 10:00 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-1I (bg)



n = 23

Slope = -0.07033 units per year.

Mann-Kendall statistic = -126 critical = -98

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/17/2024 10:00 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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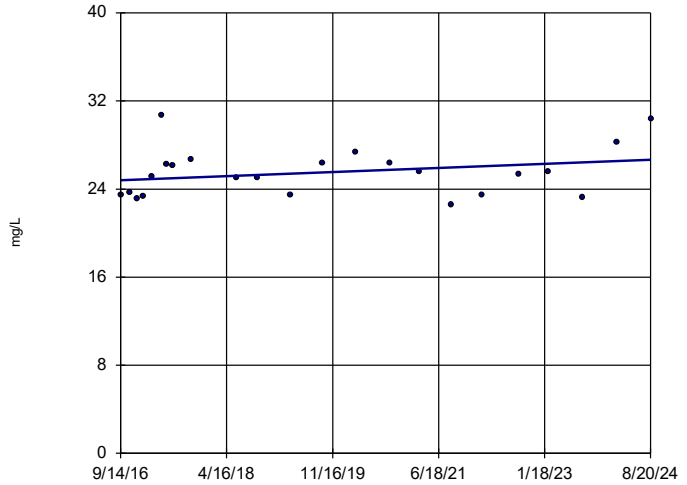
Sen's Slope Estimator

YGWA-2I (bg)



n = 23

Slope = 0.2349 units per year.

Mann-Kendall statistic = 40 critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/17/2024 10:00 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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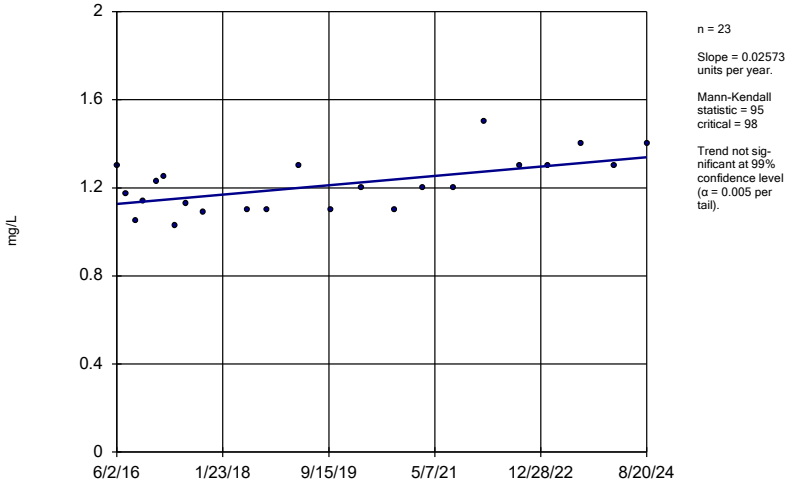
Sen's Slope Estimator

YGWA-30I (bg)



n = 23

Slope = 0.02573 units per year.

Mann-Kendall statistic = 95 critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/17/2024 10:00 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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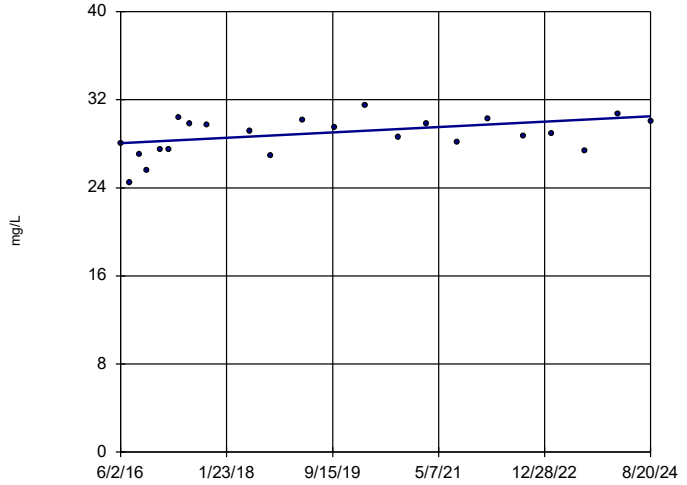
Sen's Slope Estimator

YGWA-3D (bg)



n = 23

Slope = 0.2967 units per year.

Mann-Kendall statistic = 79 critical = 98

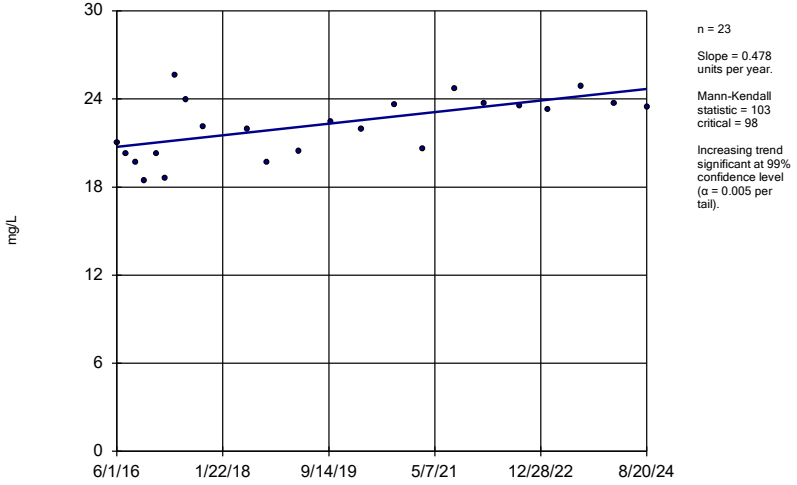
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/17/2024 10:00 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-3I (bg)



n = 23

Slope = 0.478 units per year.

Mann-Kendall statistic = 103 critical = 98

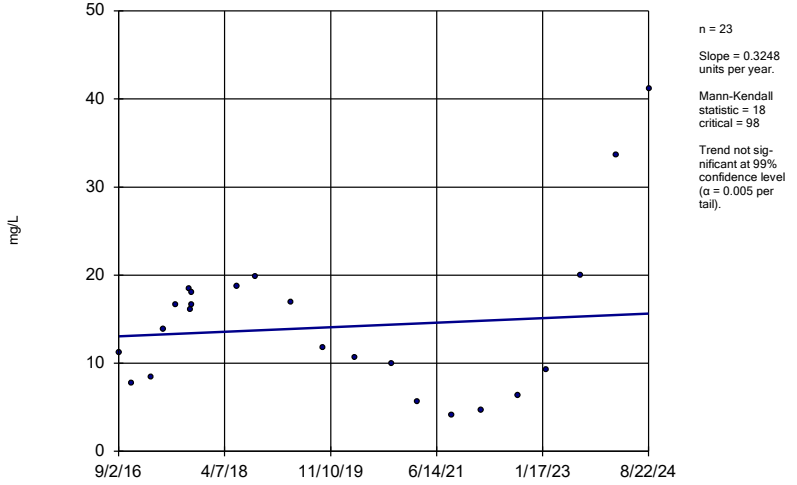
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/17/2024 10:00 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWC-36A



n = 23

Slope = 0.3248 units per year.

Mann-Kendall statistic = 18 critical = 98

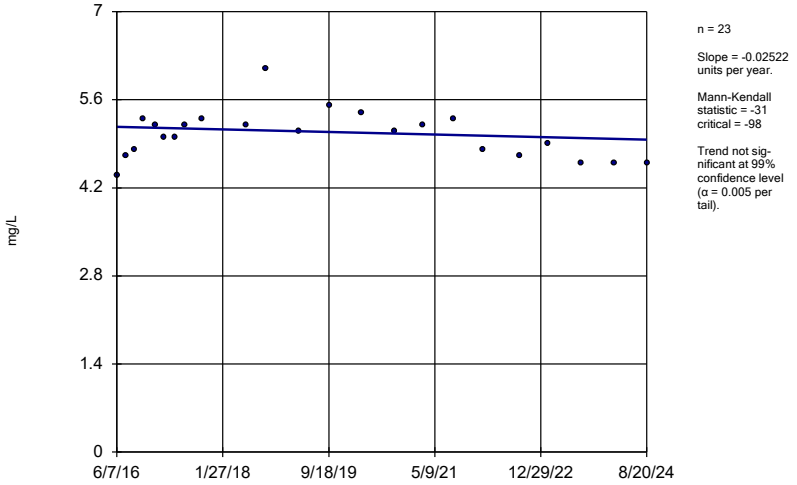
Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/17/2024 10:00 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-17S (bg)



n = 23

Slope = -0.02522 units per year.

Mann-Kendall statistic = -31 critical = -98

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

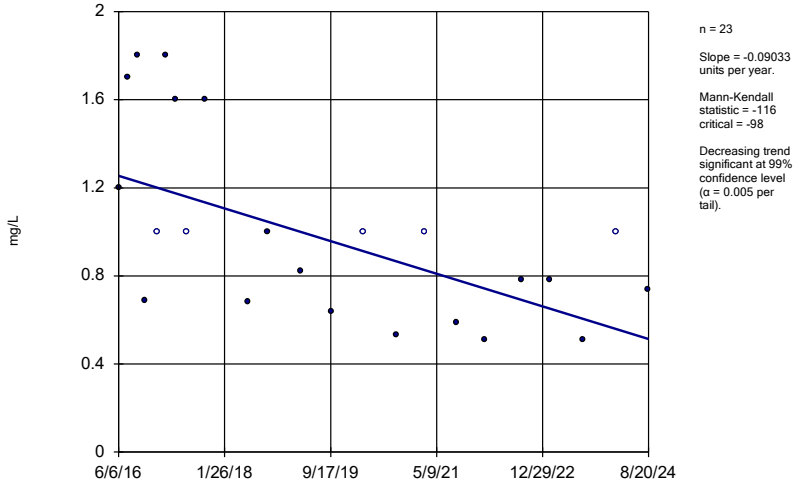
Constituent: Sulfate Analysis Run 10/17/2024 10:00 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18I (bg)



n = 23

Slope = -0.09033 units per year.

Mann-Kendall statistic = -116 critical = -98

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/17/2024 10:00 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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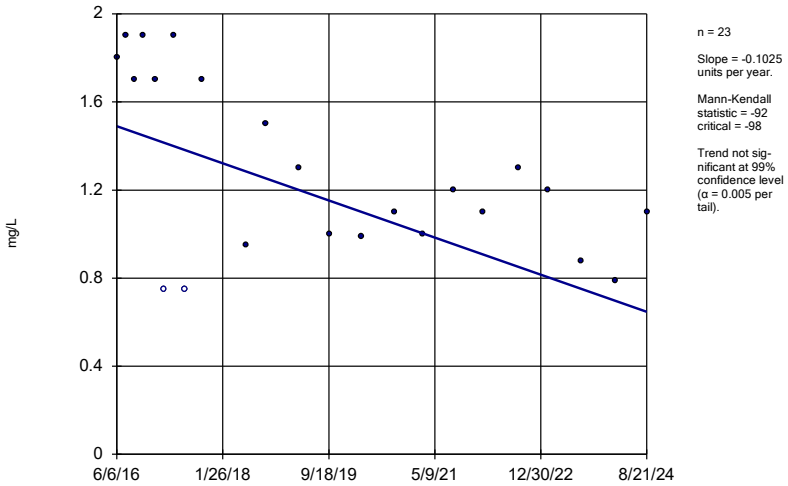
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18S (bg)



n = 23

Slope = -0.1025 units per year.

Mann-Kendall statistic = -92
critical = -98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/17/2024 10:00 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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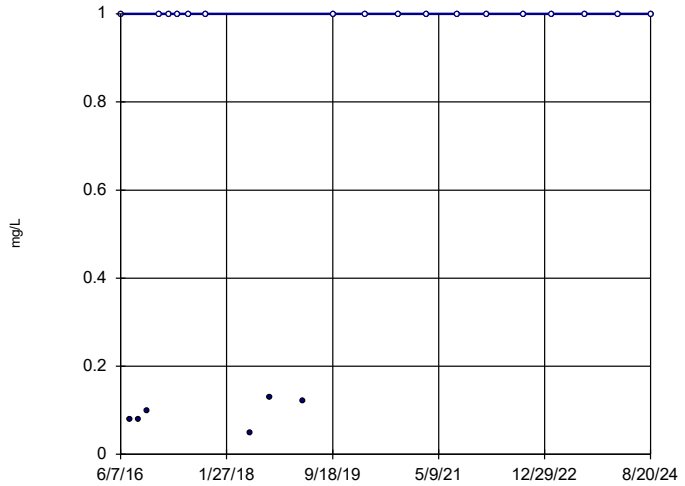
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-20S (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = 66
critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/17/2024 10:00 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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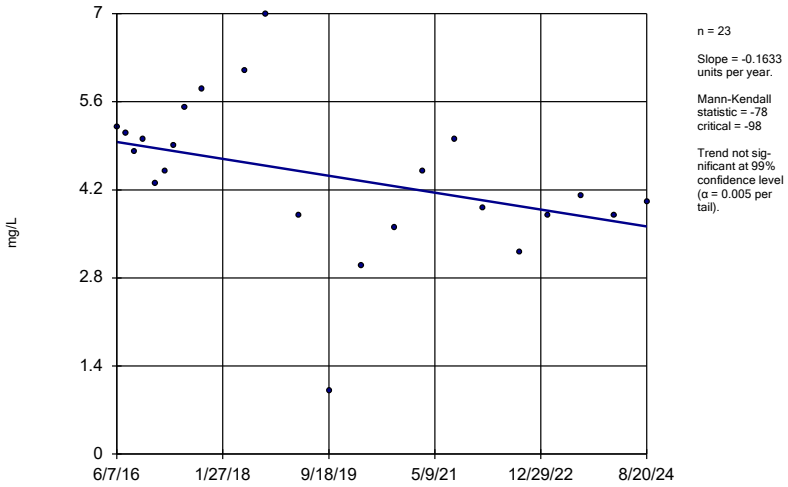
Sen's Slope Estimator

YGWA-21I (bg)



n = 23

Slope = -0.1633 units per year.

Mann-Kendall statistic = -78
critical = -98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/17/2024 10:00 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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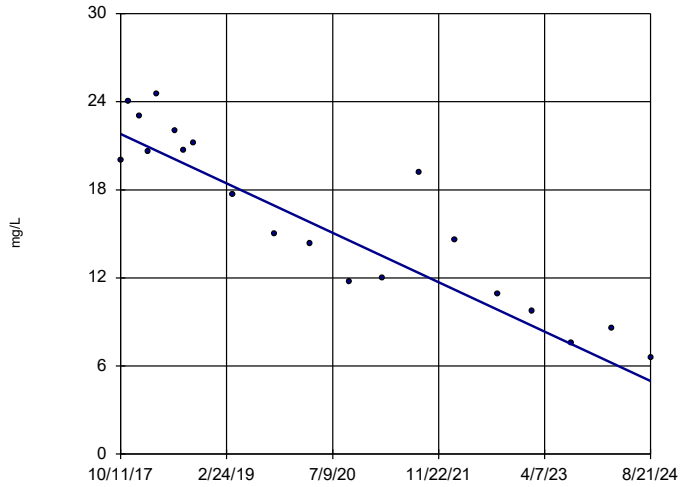
Sen's Slope Estimator

YGWA-39 (bg)



n = 20

Slope = -2.451 units per year.

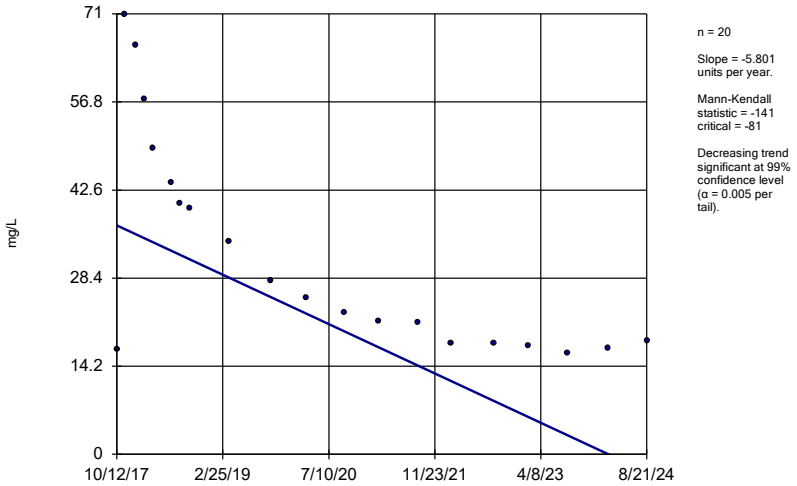
Mann-Kendall statistic = -142
critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/17/2024 10:01 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-40 (bg)



n = 20

Slope = -5.801 units per year.

Mann-Kendall statistic = -141 critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/17/2024 10:01 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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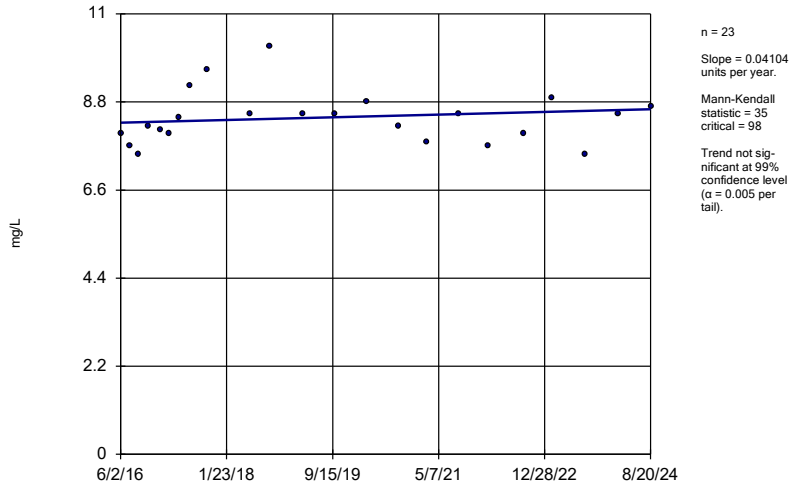
Sen's Slope Estimator

YGWA-4I (bg)



n = 23

Slope = 0.04104 units per year.

Mann-Kendall statistic = 35 critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/17/2024 10:01 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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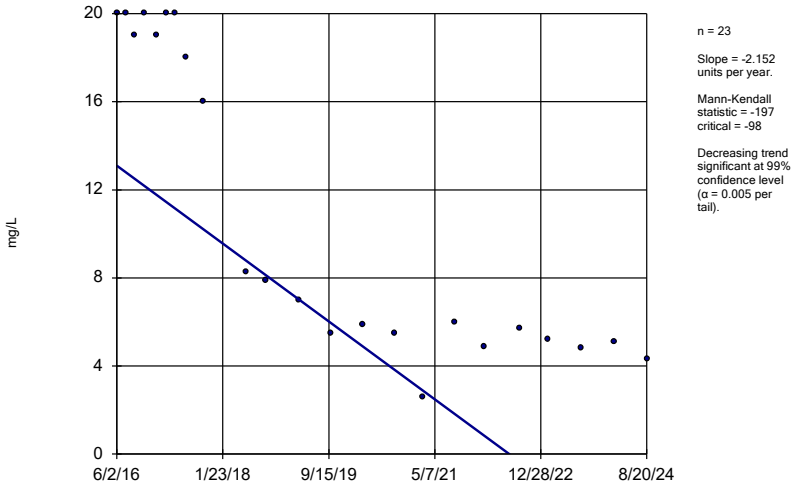
Sen's Slope Estimator

YGWA-5D (bg)



n = 23

Slope = -2.152 units per year.

Mann-Kendall statistic = -197 critical = -98

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/17/2024 10:01 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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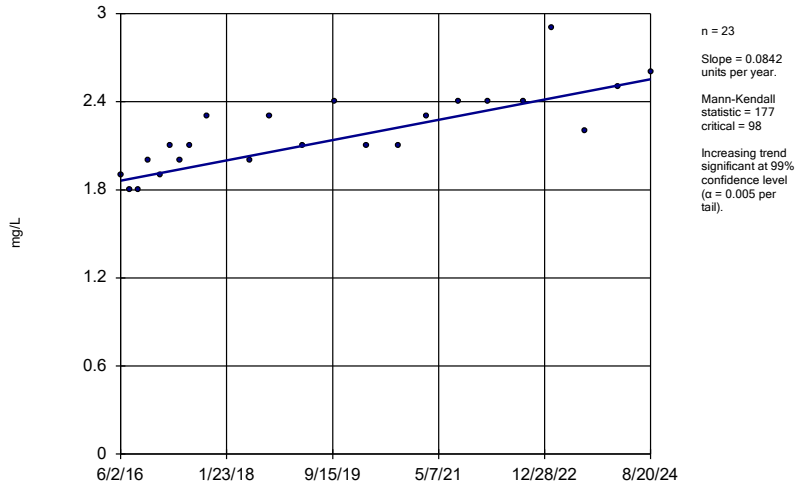
Sen's Slope Estimator

YGWA-5I (bg)



n = 23

Slope = 0.0842 units per year.

Mann-Kendall statistic = 177 critical = 98

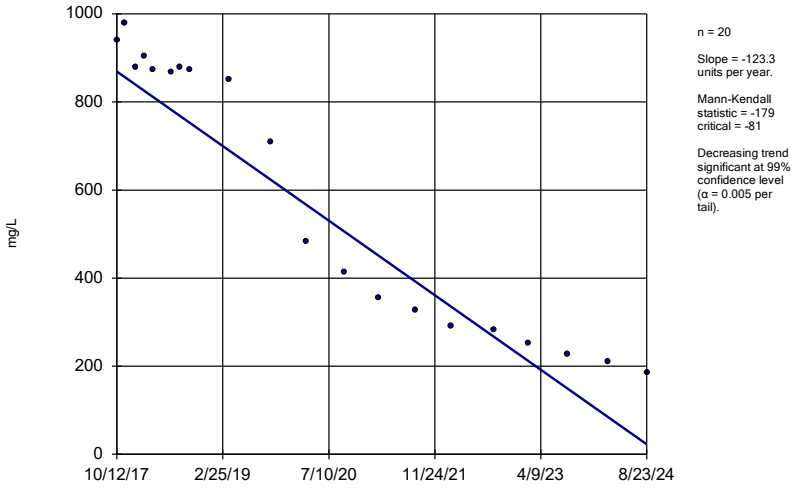
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/17/2024 10:01 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWC-38



n = 20

Slope = -123.3 units per year.

Mann-Kendall statistic = -179 critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/17/2024 10:01 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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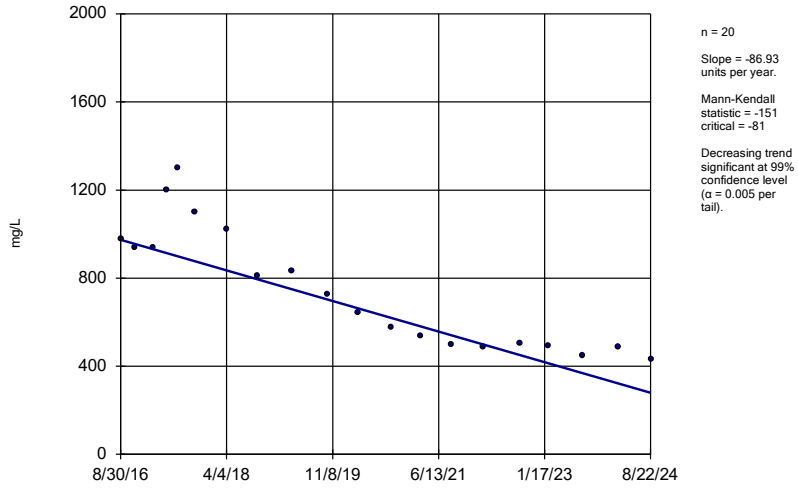
Sen's Slope Estimator

YGWC-42



n = 20

Slope = -86.93 units per year.

Mann-Kendall statistic = -151 critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/17/2024 10:01 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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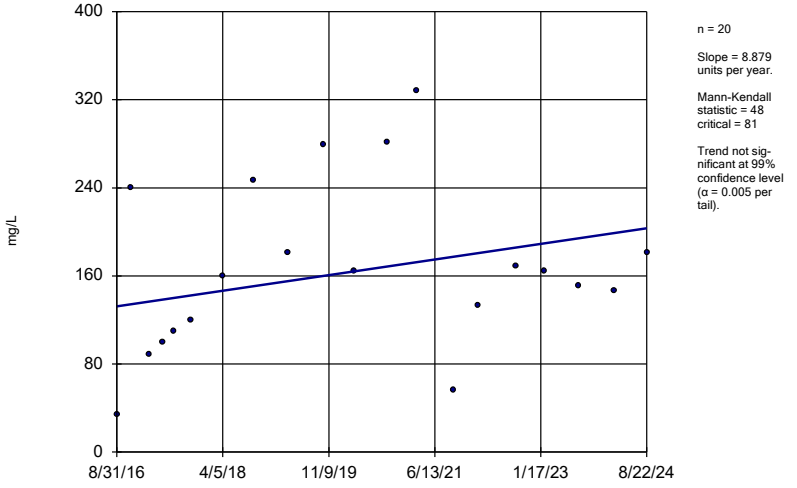
Sen's Slope Estimator

YGWC-43



n = 20

Slope = 8.879 units per year.

Mann-Kendall statistic = 48 critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/17/2024 10:01 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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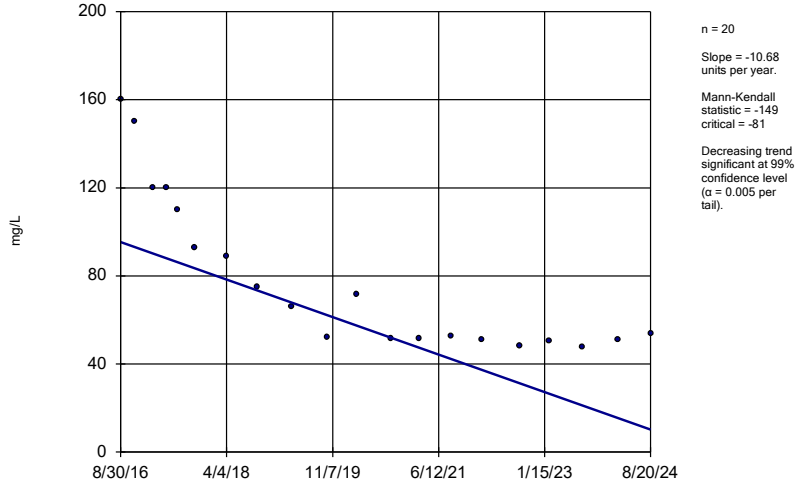
Sen's Slope Estimator

YGWA-47 (bg)



n = 20

Slope = -10.68 units per year.

Mann-Kendall statistic = -149 critical = -81

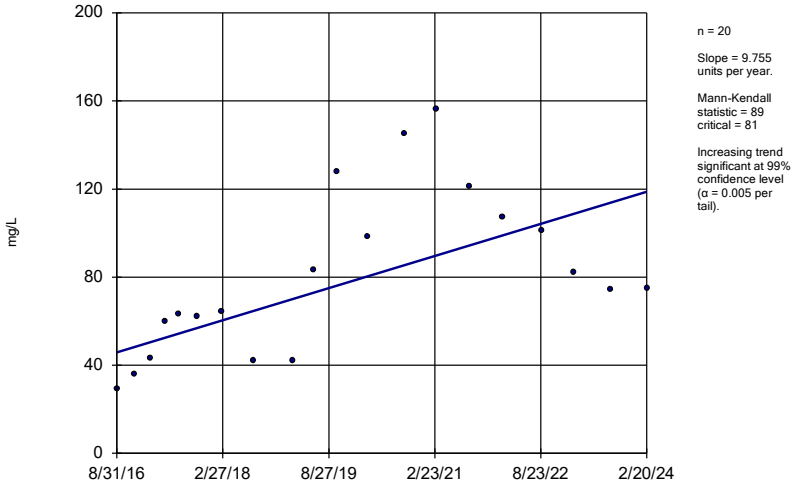
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/17/2024 10:01 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

GWA-2 (bg)



n = 20

Slope = 9.755 units per year.

Mann-Kendall statistic = 89 critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/17/2024 10:01 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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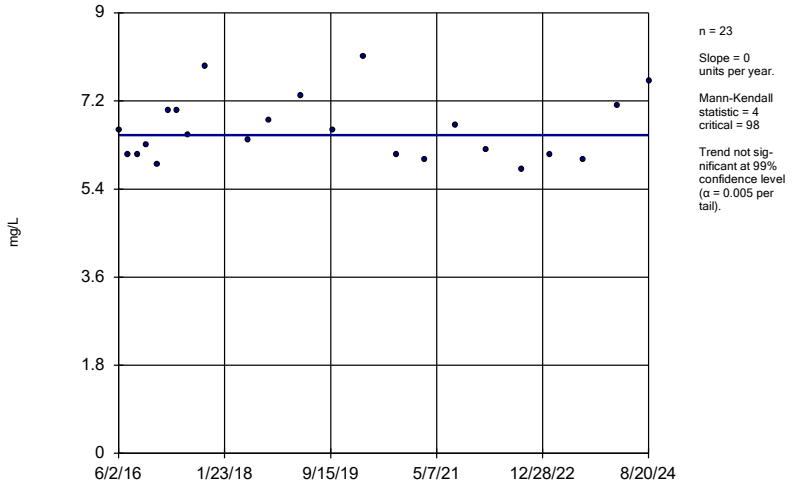
Sen's Slope Estimator

YGWA-14S (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = 4 critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/17/2024 10:01 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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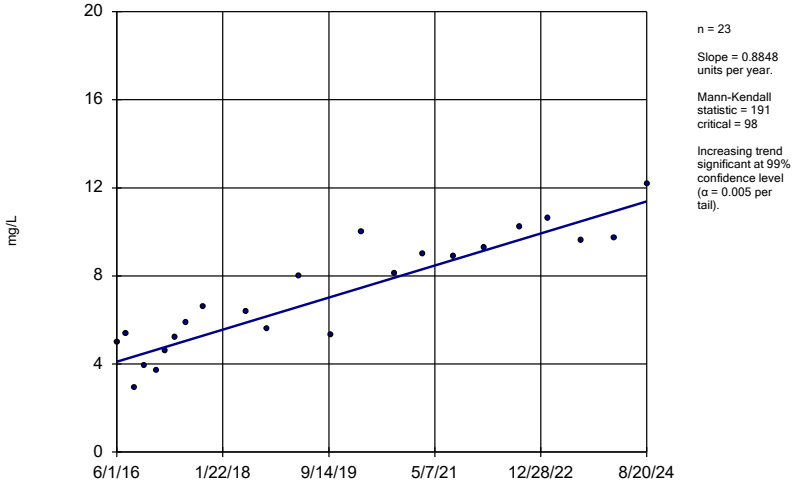
Sen's Slope Estimator

YGWA-1D (bg)



n = 23

Slope = 0.8848 units per year.

Mann-Kendall statistic = 191 critical = 98

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/17/2024 10:01 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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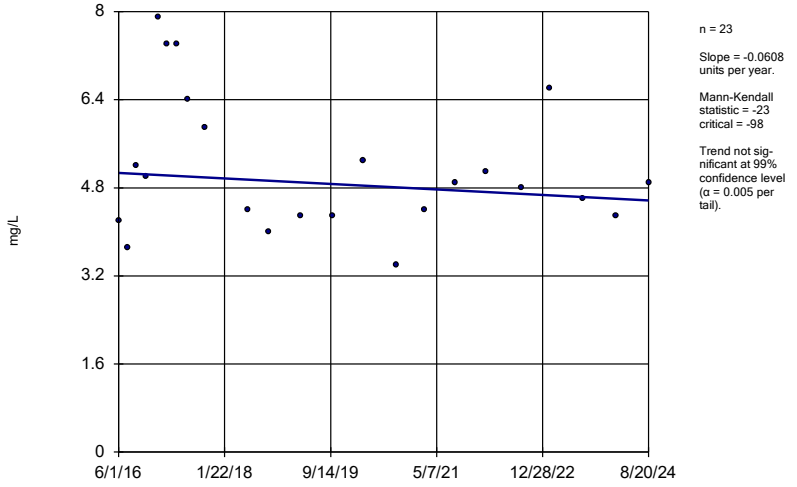
Sen's Slope Estimator

YGWA-1I (bg)



n = 23

Slope = -0.0608 units per year.

Mann-Kendall statistic = -23 critical = -98

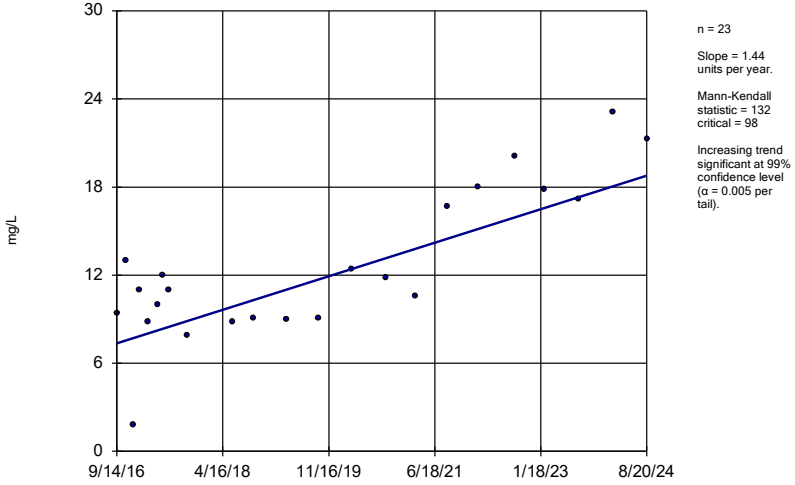
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/17/2024 10:01 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-2I (bg)



n = 23

Slope = 1.44 units per year.

Mann-Kendall statistic = 132
critical = 98

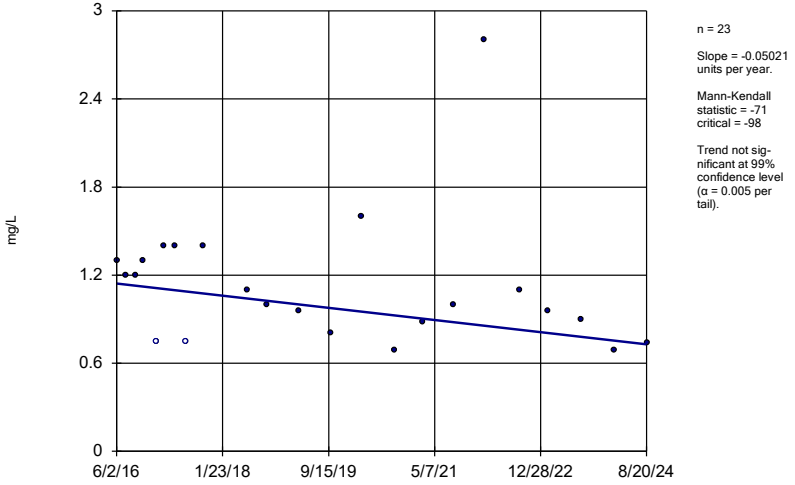
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/17/2024 10:01 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-30I (bg)



n = 23

Slope = -0.05021 units per year.

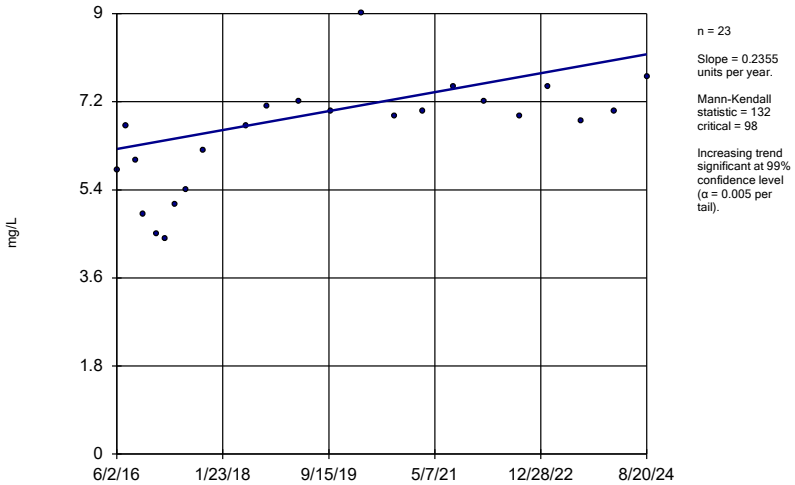
Mann-Kendall statistic = -71
critical = -98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/17/2024 10:01 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-3D (bg)



n = 23

Slope = 0.2355 units per year.

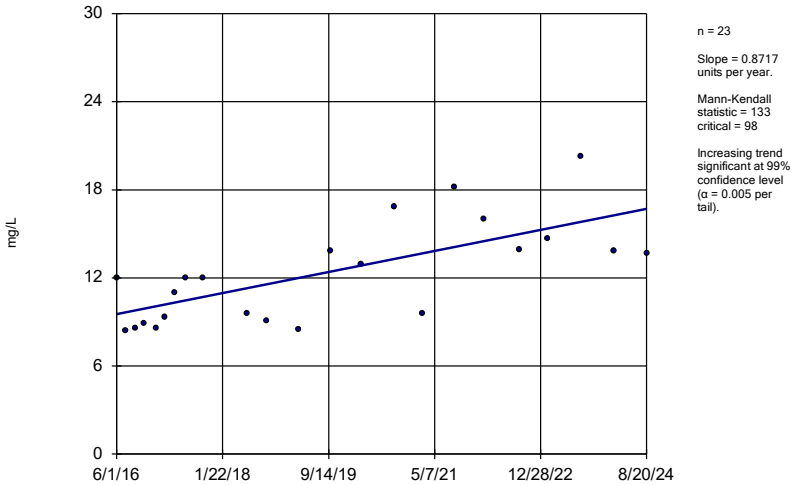
Mann-Kendall statistic = 132
critical = 98

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/17/2024 10:01 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-3I (bg)



n = 23

Slope = 0.8717 units per year.

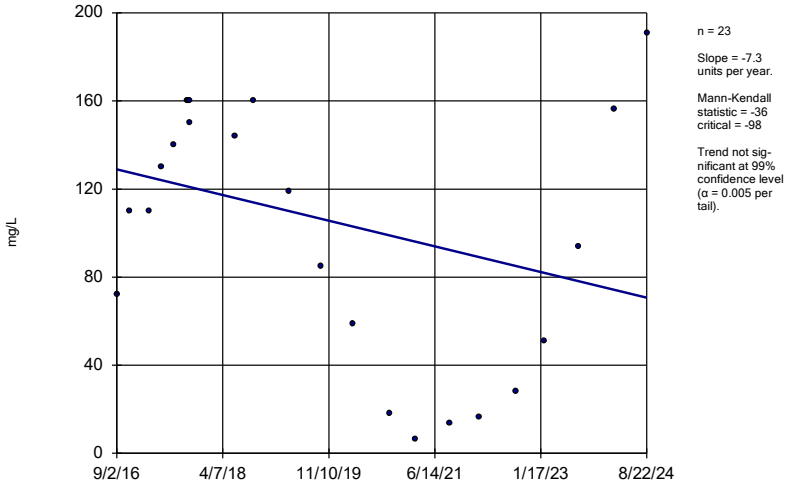
Mann-Kendall statistic = 133
critical = 98

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/17/2024 10:01 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWC-36A



Constituent: Sulfate Analysis Run 10/17/2024 10:01 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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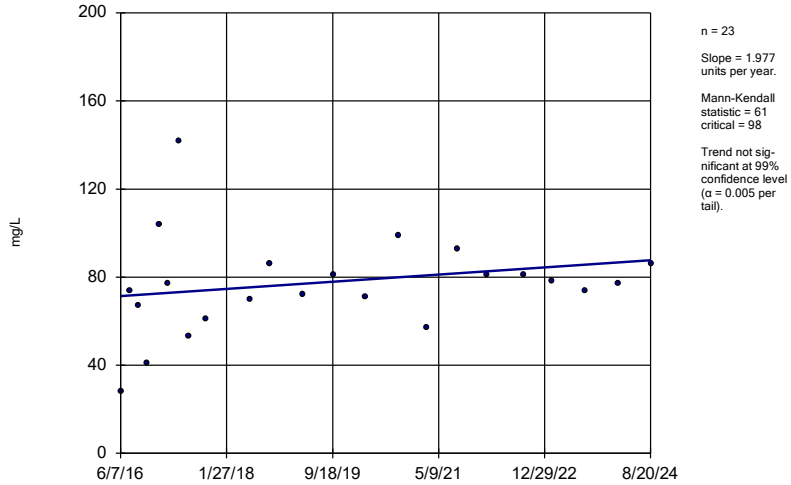
Sen's Slope Estimator

YGWA-17S (bg)



Constituent: Total Dissolved Solids Analysis Run 10/17/2024 10:01 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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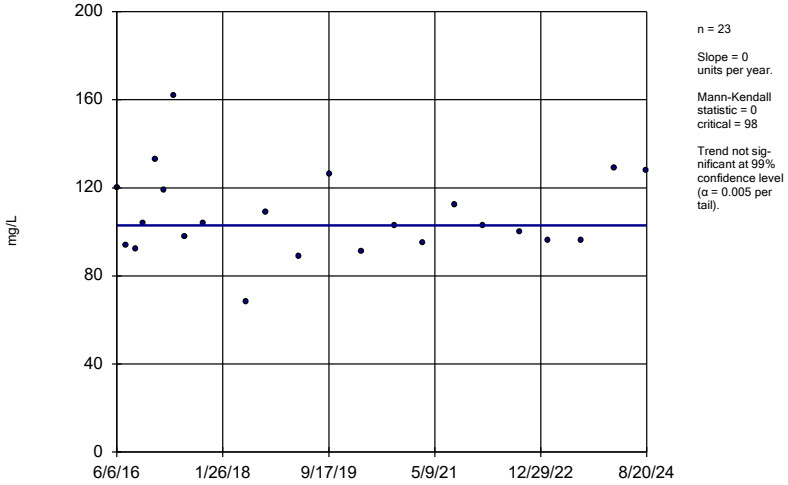
Sen's Slope Estimator

YGWA-18I (bg)



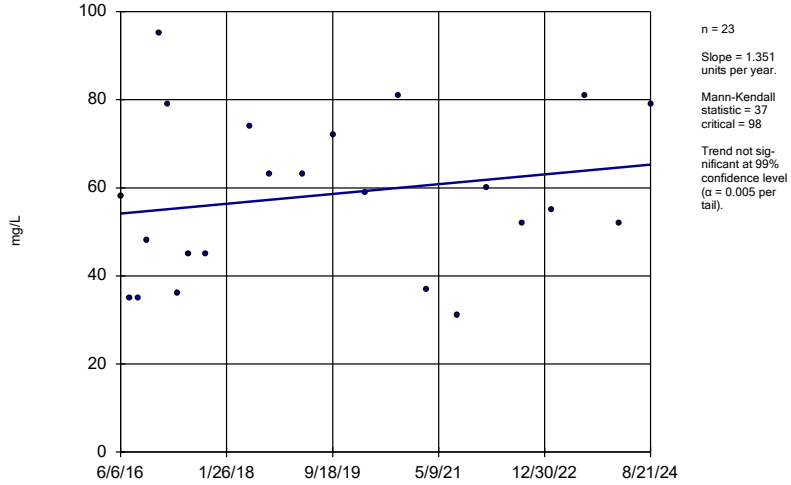
Constituent: Total Dissolved Solids Analysis Run 10/17/2024 10:01 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-18S (bg)

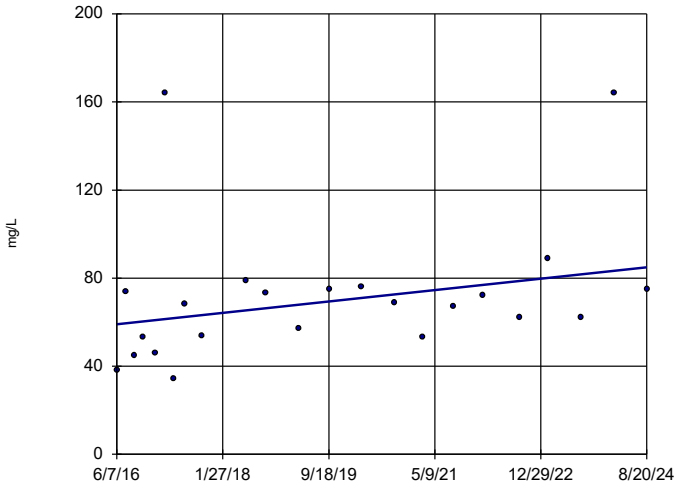


Constituent: Total Dissolved Solids Analysis Run 10/17/2024 10:01 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-20S (bg)



n = 23

Slope = 3.147 units per year.

Mann-Kendall statistic = 79
critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/17/2024 10:01 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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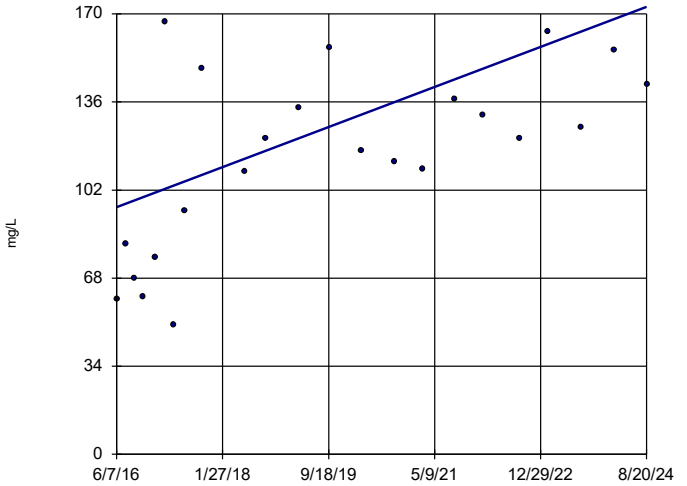
Sen's Slope Estimator

YGWA-21I (bg)



n = 23

Slope = 9.422 units per year.

Mann-Kendall statistic = 118
critical = 98

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/17/2024 10:01 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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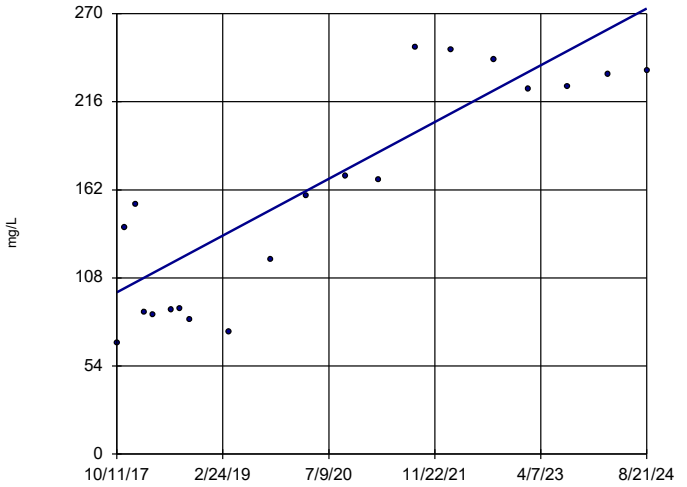
Sen's Slope Estimator

YGWA-39 (bg)



n = 20

Slope = 25.35 units per year.

Mann-Kendall statistic = 110
critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/17/2024 10:01 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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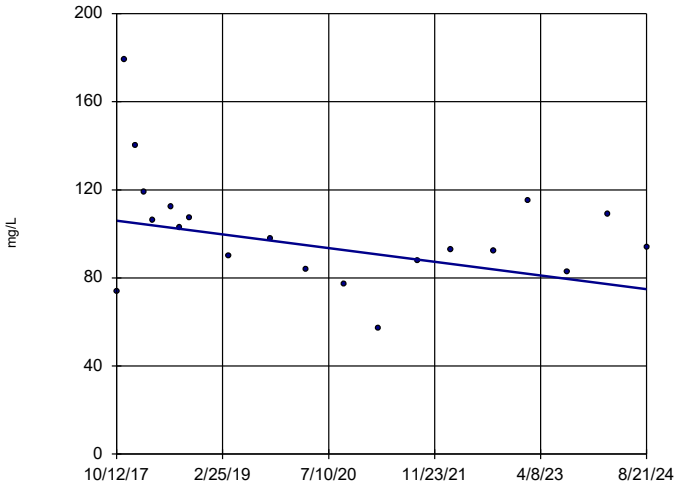
Sen's Slope Estimator

YGWA-40 (bg)



n = 20

Slope = -4.535 units per year.

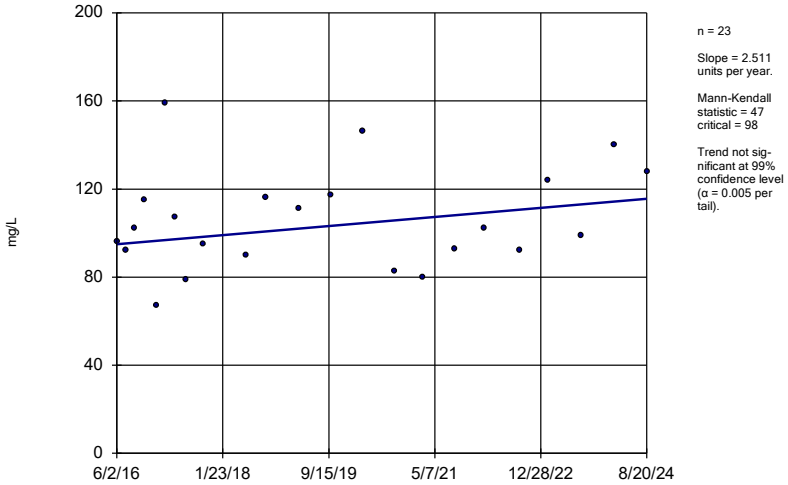
Mann-Kendall statistic = -52
critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/17/2024 10:01 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-4I (bg)



n = 23

Slope = 2.511 units per year.

Mann-Kendall statistic = 47 critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/17/2024 10:01 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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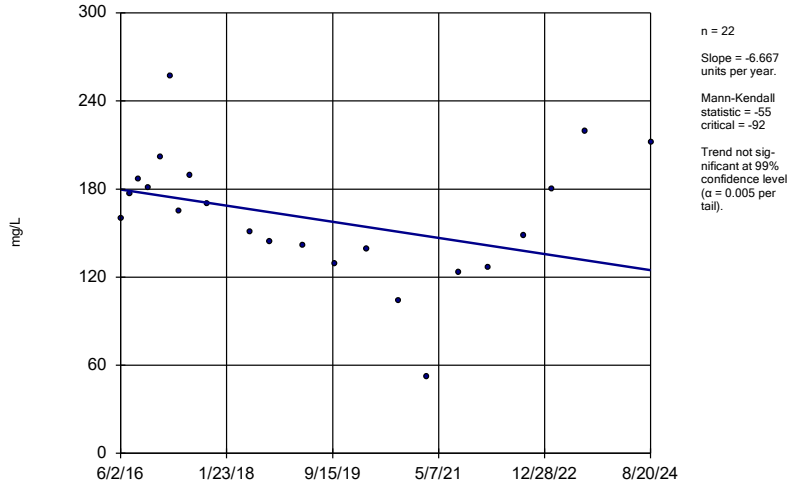
Sen's Slope Estimator

YGWA-5D (bg)



n = 22

Slope = -6.667 units per year.

Mann-Kendall statistic = -55 critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/17/2024 10:01 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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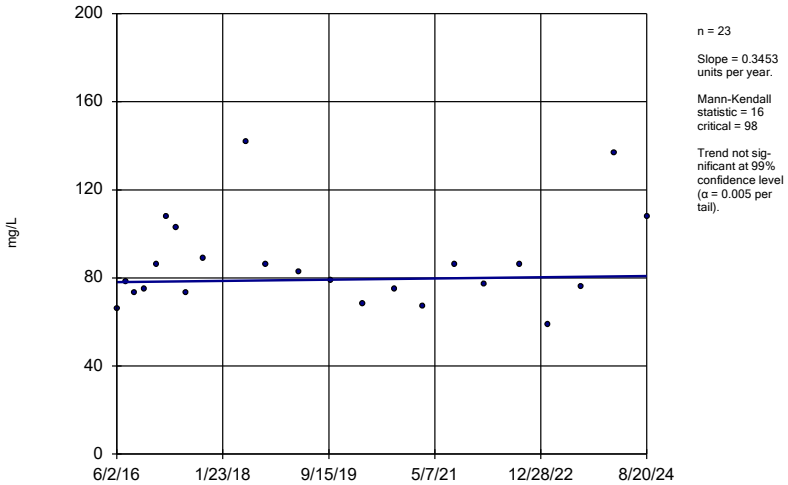
Sen's Slope Estimator

YGWA-5I (bg)



n = 23

Slope = 0.3453 units per year.

Mann-Kendall statistic = 16 critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/17/2024 10:01 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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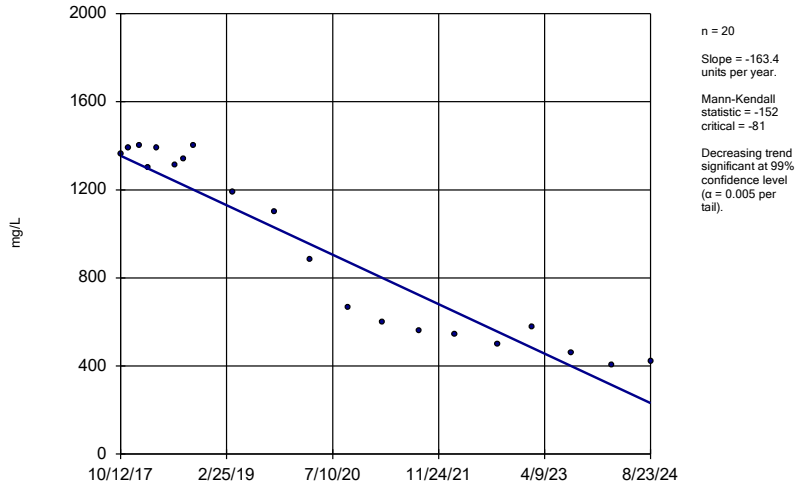
Sen's Slope Estimator

YGWC-38



n = 20

Slope = -163.4 units per year.

Mann-Kendall statistic = -152 critical = -81

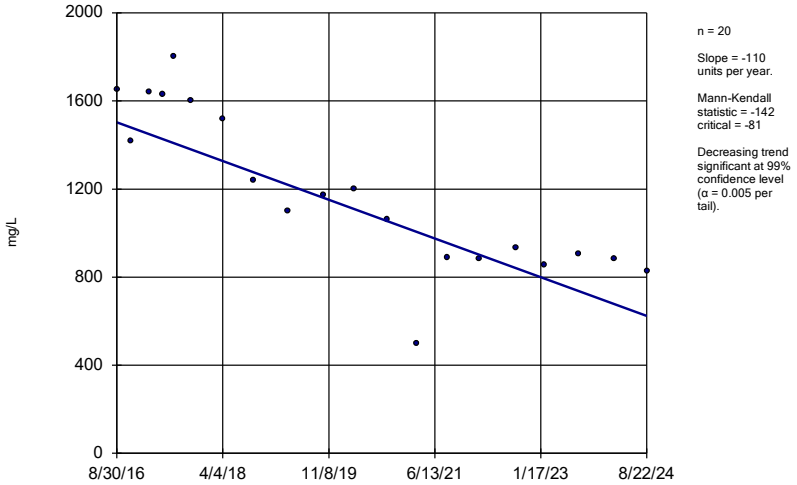
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/17/2024 10:01 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWC-42



n = 20

Slope = -110 units per year.

Mann-Kendall statistic = -142 critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/17/2024 10:01 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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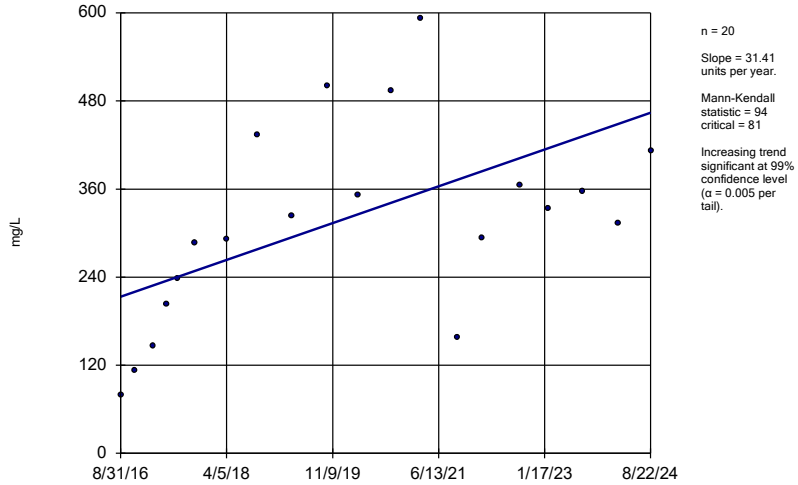
Sen's Slope Estimator

YGWC-43



n = 20

Slope = 31.41 units per year.

Mann-Kendall statistic = 94 critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/17/2024 10:01 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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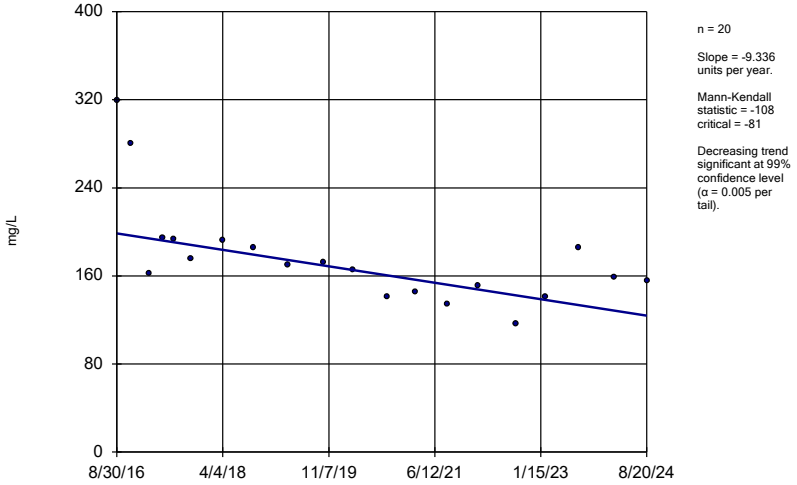
Sen's Slope Estimator

YGWA-47 (bg)



n = 20

Slope = -9.336 units per year.

Mann-Kendall statistic = -108 critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/17/2024 10:01 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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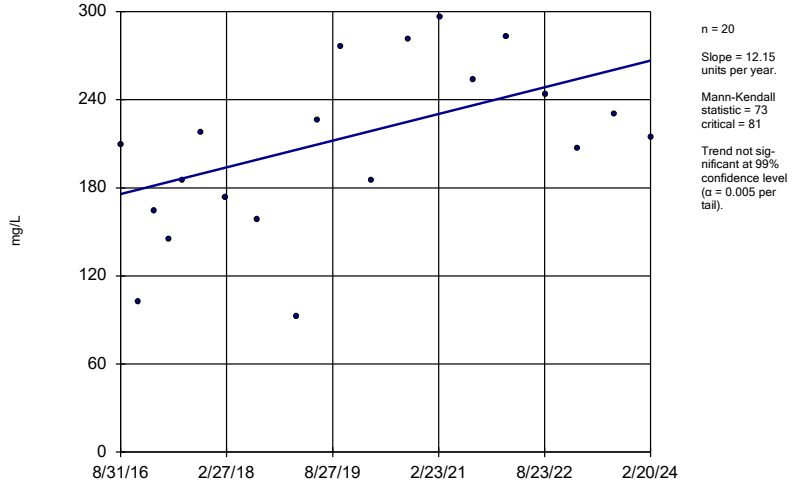
Sen's Slope Estimator

GWA-2 (bg)



n = 20

Slope = 12.15 units per year.

Mann-Kendall statistic = 73 critical = 81

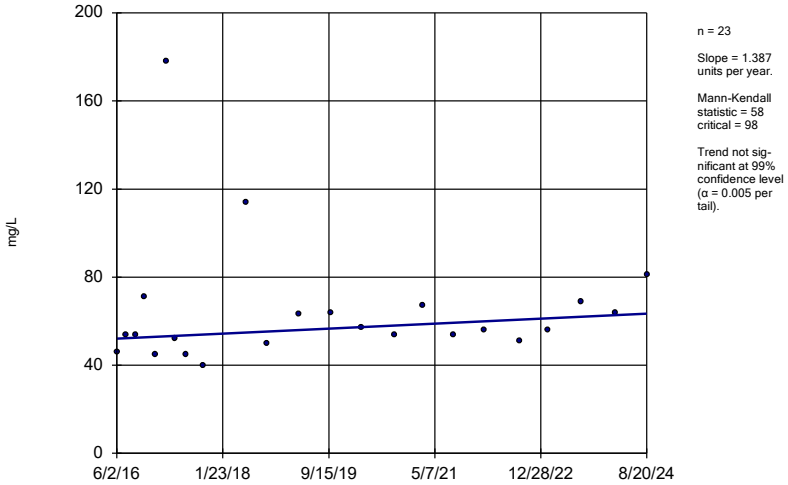
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/17/2024 10:01 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-14S (bg)



n = 23

Slope = 1.387 units per year.

Mann-Kendall statistic = 58 critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/17/2024 10:01 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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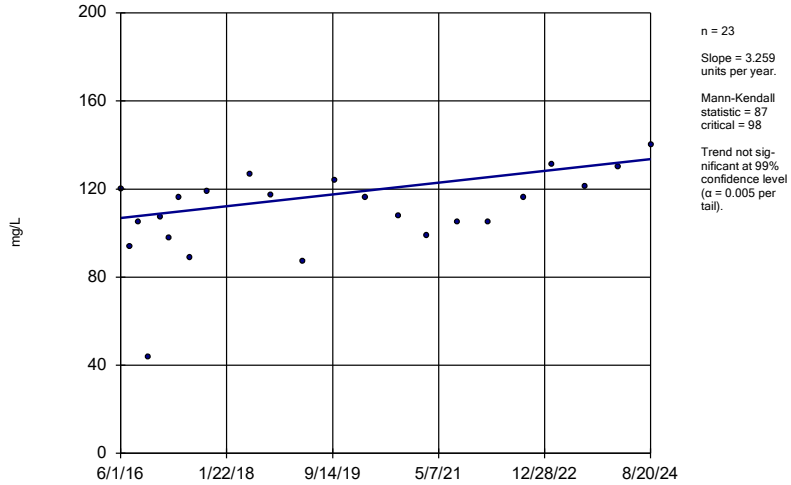
Sen's Slope Estimator

YGWA-1D (bg)



n = 23

Slope = 3.259 units per year.

Mann-Kendall statistic = 87 critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/17/2024 10:01 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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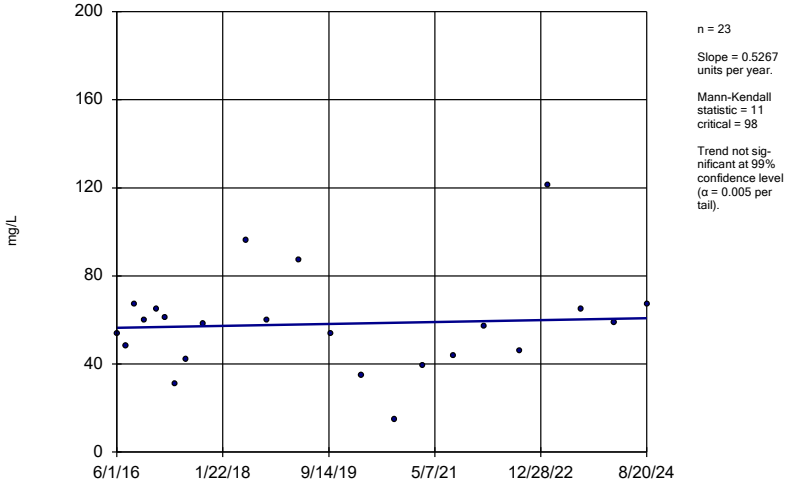
Sen's Slope Estimator

YGWA-1I (bg)



n = 23

Slope = 0.5267 units per year.

Mann-Kendall statistic = 11 critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/17/2024 10:01 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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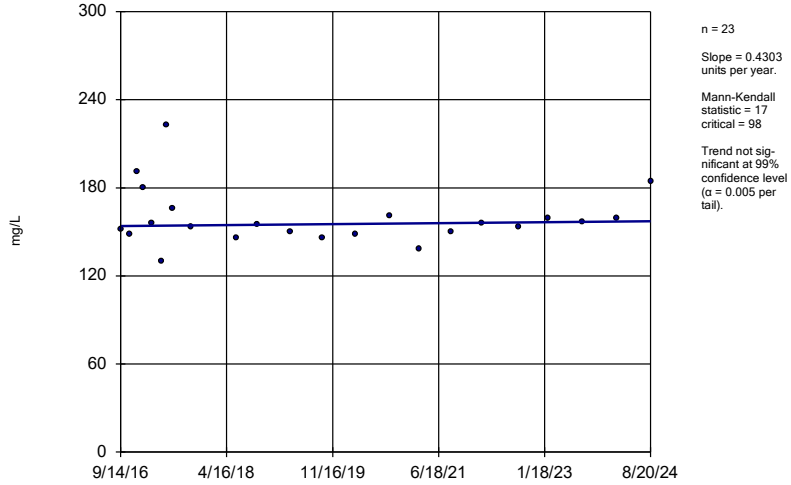
Sen's Slope Estimator

YGWA-2I (bg)



n = 23

Slope = 0.4303 units per year.

Mann-Kendall statistic = 17 critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

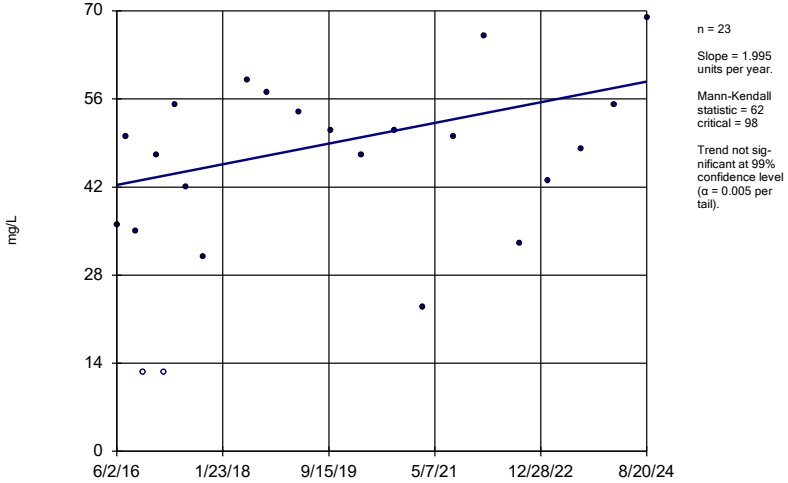
Constituent: Total Dissolved Solids Analysis Run 10/17/2024 10:01 AM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-30I (bg)



n = 23

Slope = 1.995 units per year.

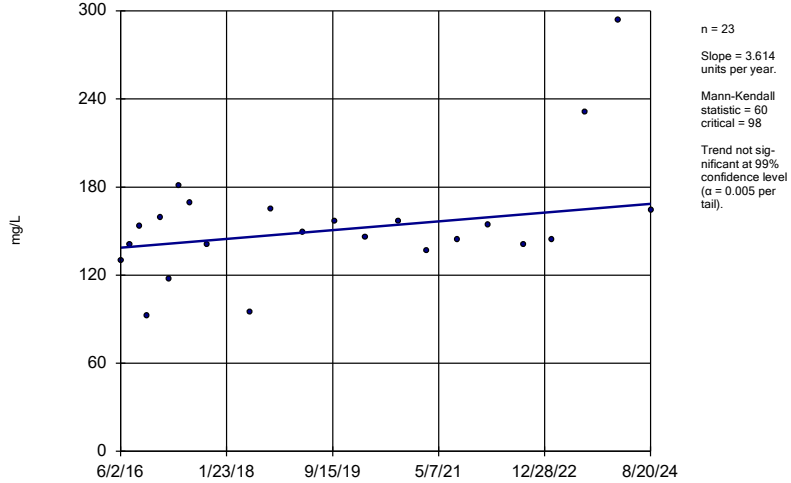
Mann-Kendall statistic = 62
critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/17/2024 10:01 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-3D (bg)



n = 23

Slope = 3.614 units per year.

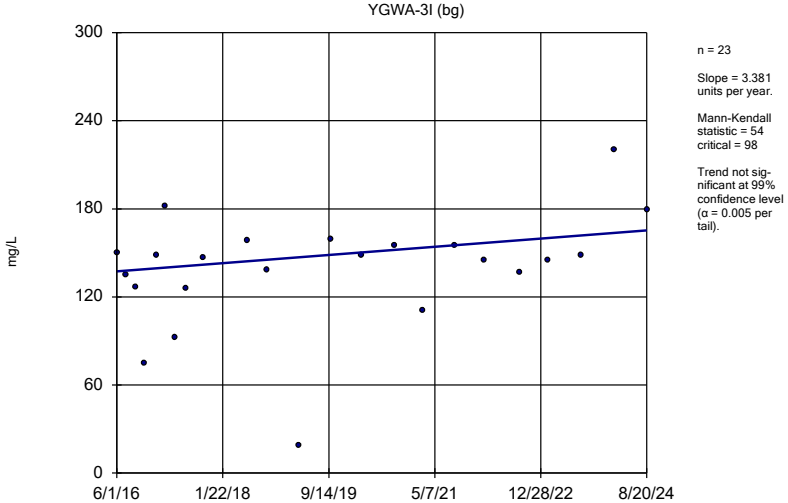
Mann-Kendall statistic = 60
critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/17/2024 10:01 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-3I (bg)



n = 23

Slope = 3.381 units per year.

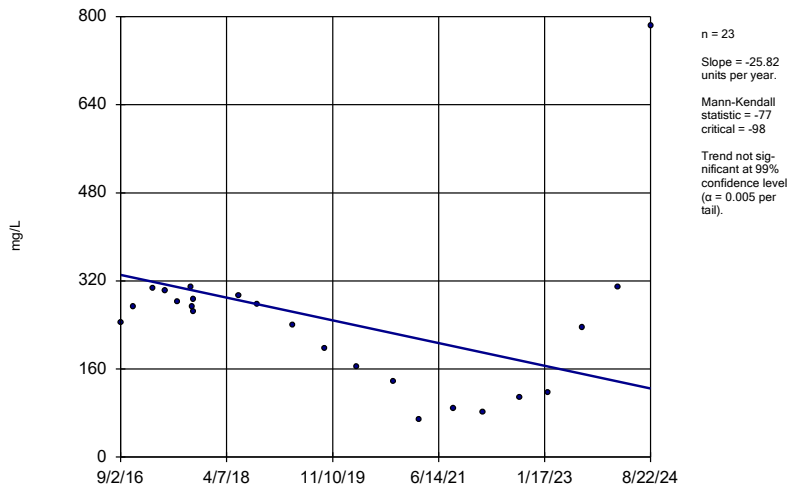
Mann-Kendall statistic = 54
critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/17/2024 10:01 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWC-36A



n = 23

Slope = -25.82 units per year.

Mann-Kendall statistic = -77
critical = -98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/17/2024 10:01 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

FIGURE G.

Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 10/17/2024, 10:14 AM

Constituent	Upper Lim.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.0047	447	n/a	n/a	88.14	n/a	n/a	NaN	NP Inter(NDs)
Arsenic (mg/L)	0.005	495	n/a	n/a	75.35	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	0.21	495	n/a	n/a	2.222	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	0.0011	479	n/a	n/a	80.17	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	0.00063	479	n/a	n/a	94.99	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	0.0093	447	n/a	n/a	82.33	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	0.035	489	n/a	n/a	68.92	n/a	n/a	NaN	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	6.92	474	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Fluoride (mg/L)	0.68	494	n/a	n/a	62.96	n/a	n/a	NaN	NP Inter(NDs)
Lead (mg/L)	0.0013	449	n/a	n/a	87.75	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	0.03	474	n/a	n/a	27.43	n/a	n/a	NaN	NP Inter(normality)
Mercury (mg/L)	0.00064	403	n/a	n/a	89.58	n/a	n/a	NaN	NP Inter(NDs)
Molybdenum (mg/L)	0.03	438	n/a	n/a	61.19	n/a	n/a	NaN	NP Inter(NDs)
Selenium (mg/L)	0.005	477	n/a	n/a	92.87	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	0.001	413	n/a	n/a	97.58	n/a	n/a	NaN	NP Inter(NDs)

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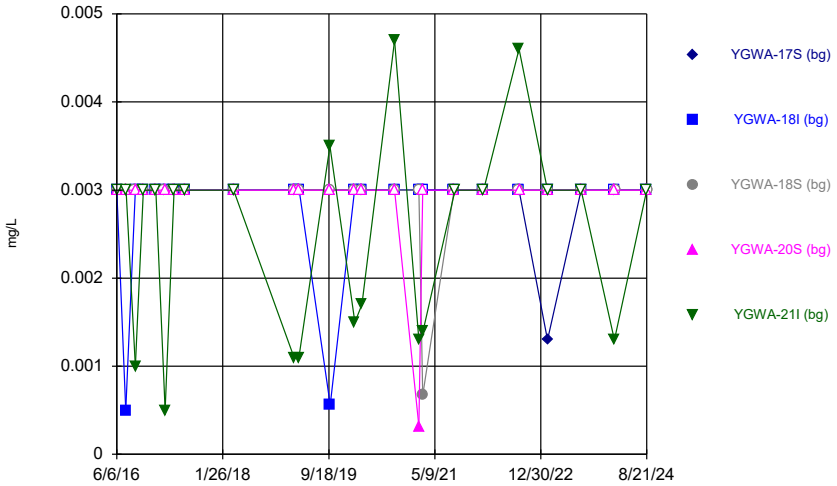
Hollow symbols indicate censored values.

Time Series



Constituent: Antimony Analysis Run 10/17/2024 10:11 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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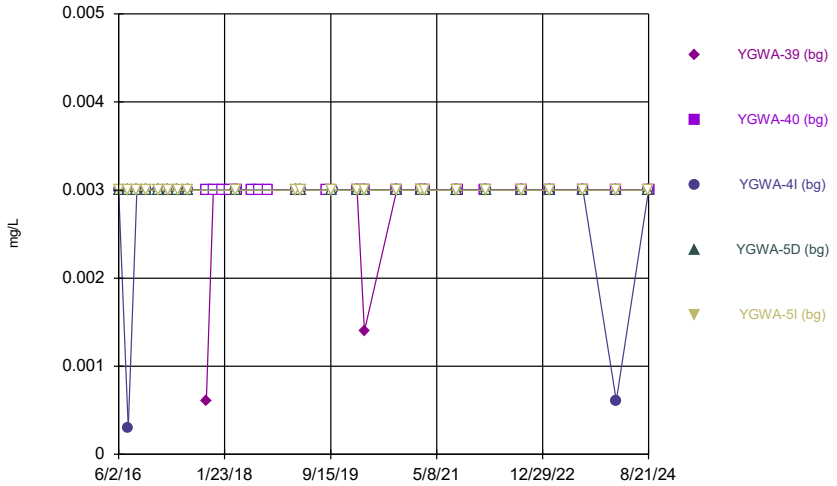
Hollow symbols indicate censored values.

Time Series



Constituent: Antimony Analysis Run 10/17/2024 10:11 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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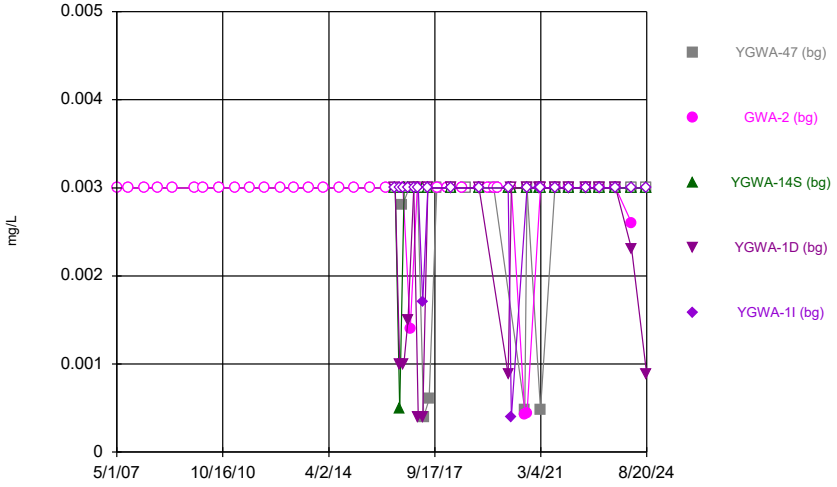
Hollow symbols indicate censored values.

Time Series



Constituent: Antimony Analysis Run 10/17/2024 10:11 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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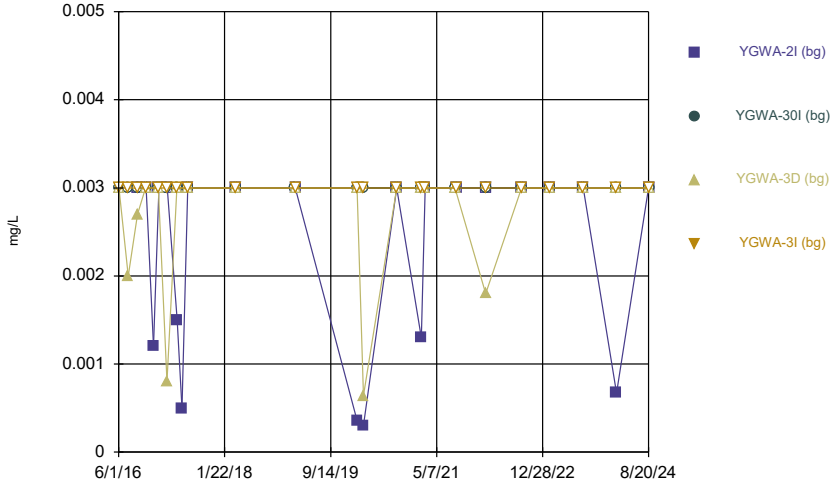
Hollow symbols indicate censored values.

Time Series



Constituent: Antimony Analysis Run 10/17/2024 10:11 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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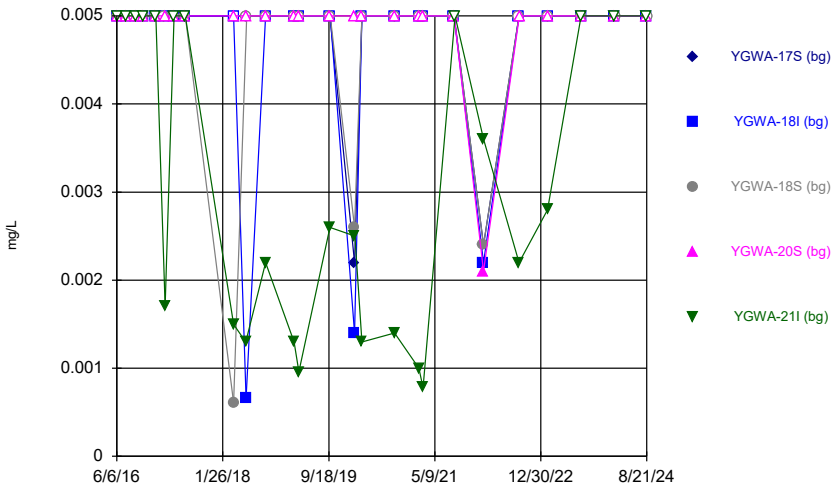
Hollow symbols indicate censored values.

Time Series



Constituent: Arsenic Analysis Run 10/17/2024 10:12 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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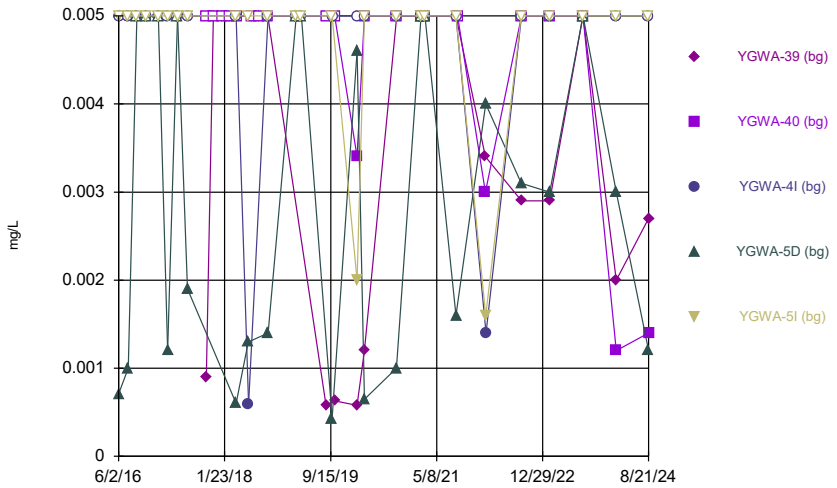
Hollow symbols indicate censored values.

Time Series



Constituent: Arsenic Analysis Run 10/17/2024 10:12 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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Hollow symbols indicate censored values.

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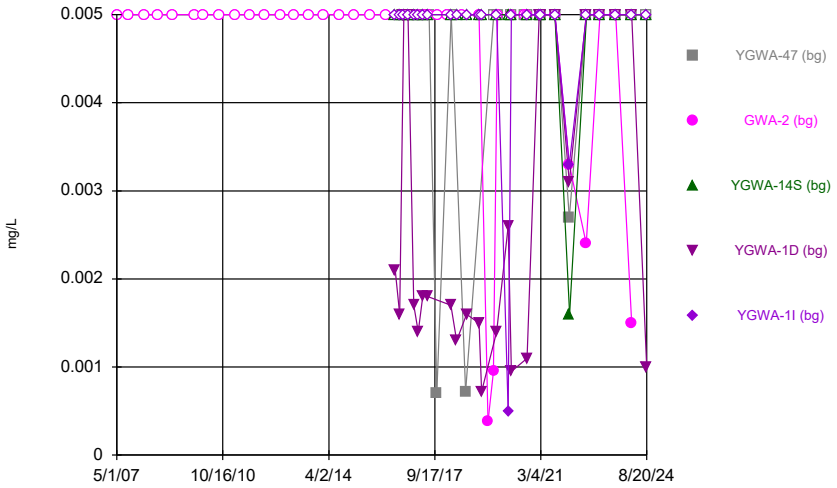
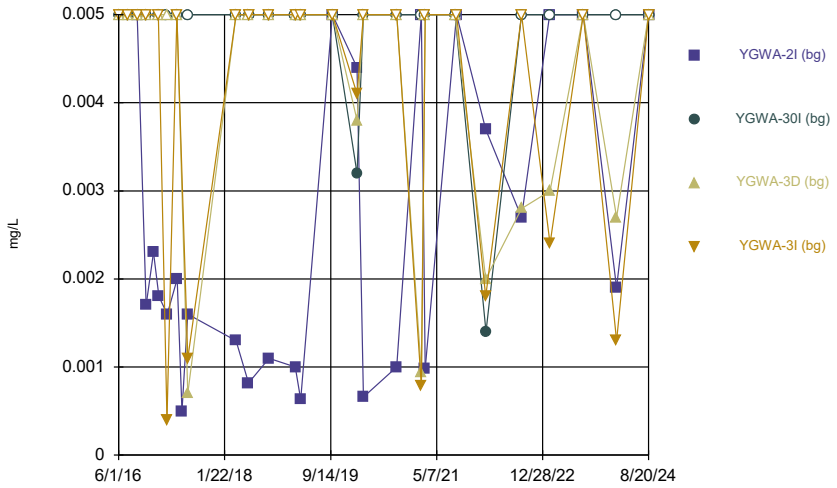


Constituent: Arsenic Analysis Run 10/17/2024 10:12 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Arsenic Analysis Run 10/17/2024 10:12 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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Hollow symbols indicate censored values.

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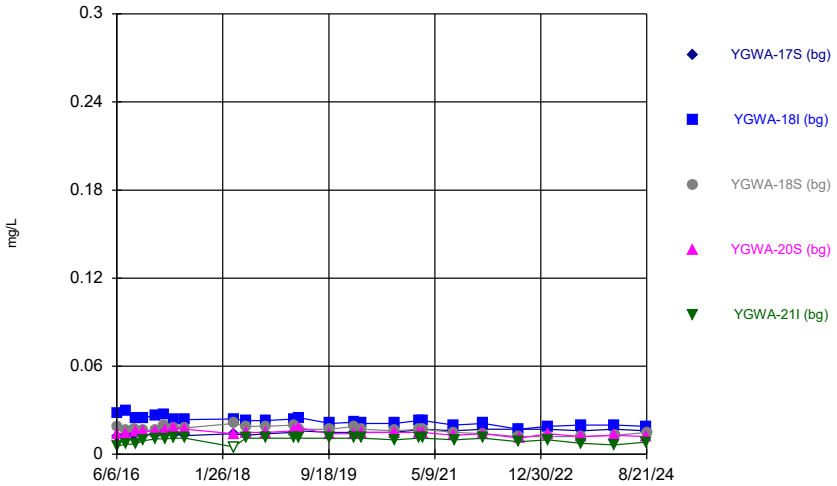

Constituent: Barium Analysis Run 10/17/2024 10:12 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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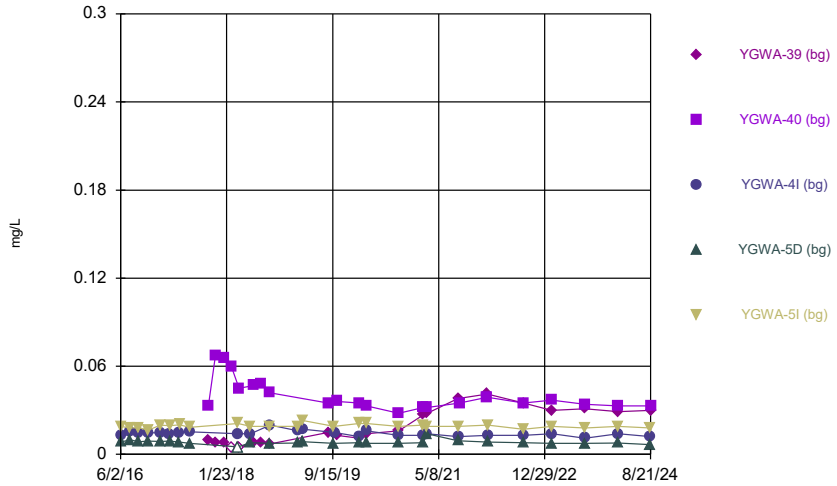
Hollow symbols indicate censored values.

Time Series



Constituent: Barium Analysis Run 10/17/2024 10:12 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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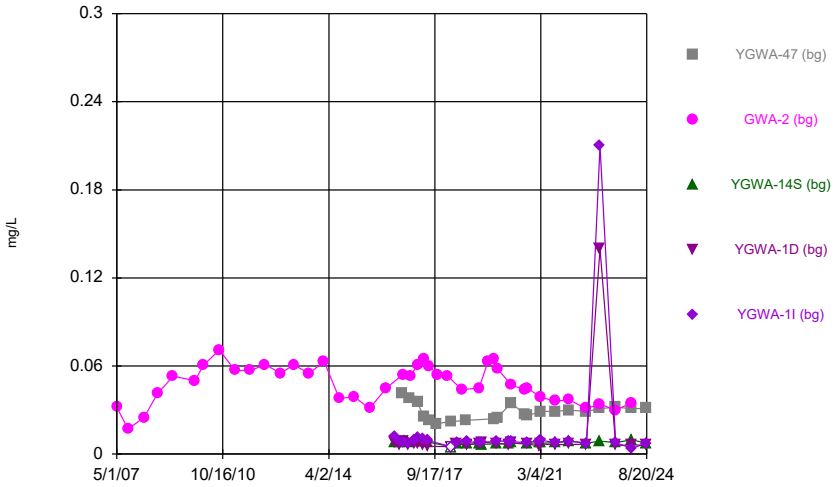
Hollow symbols indicate censored values.

Time Series



Constituent: Barium Analysis Run 10/17/2024 10:12 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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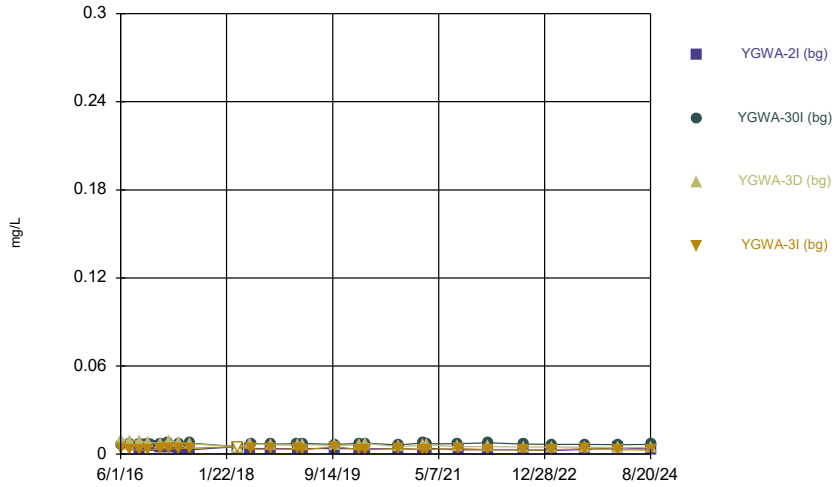
Hollow symbols indicate censored values.

Time Series



Constituent: Barium Analysis Run 10/17/2024 10:12 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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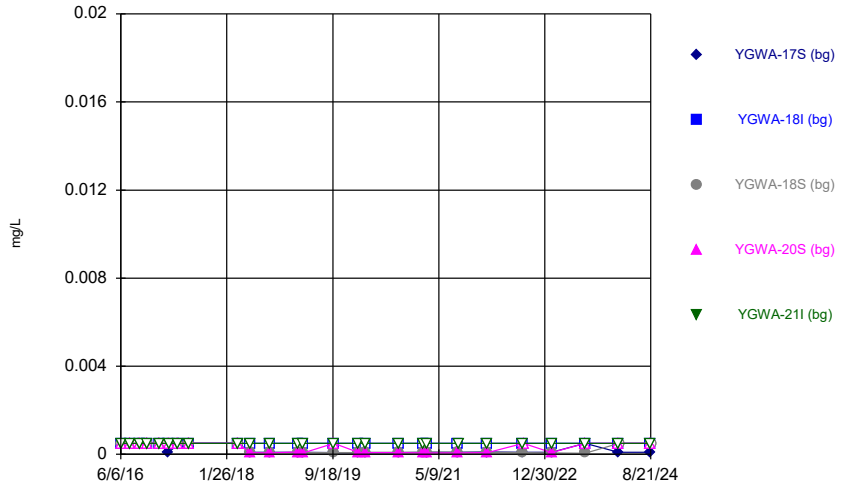
Hollow symbols indicate censored values.

Time Series



Constituent: Beryllium Analysis Run 10/17/2024 10:12 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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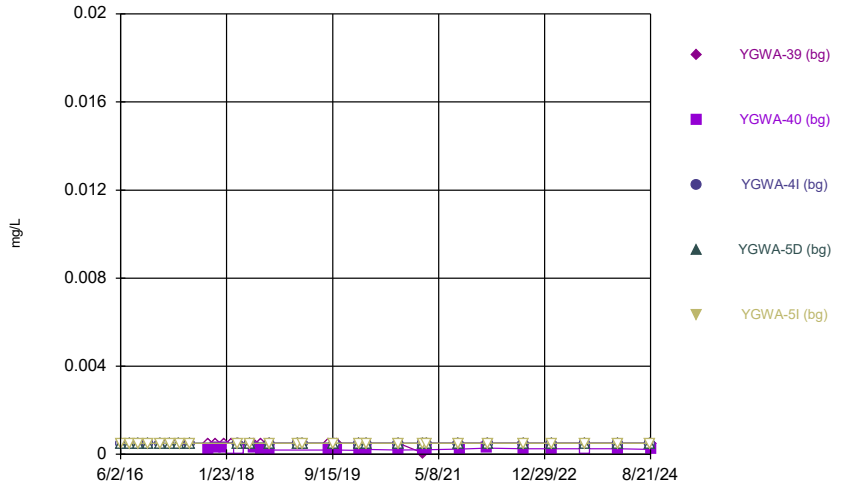
Hollow symbols indicate censored values.

Time Series



Constituent: Beryllium Analysis Run 10/17/2024 10:12 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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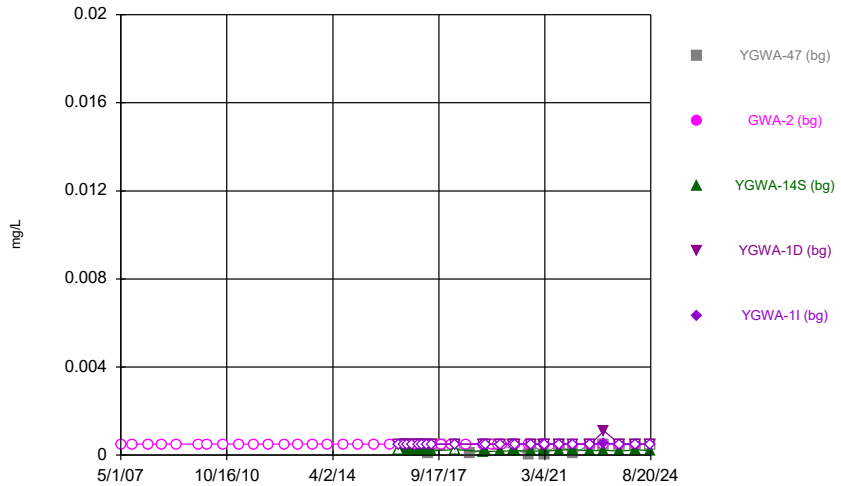
Hollow symbols indicate censored values.

Time Series



Constituent: Beryllium Analysis Run 10/17/2024 10:12 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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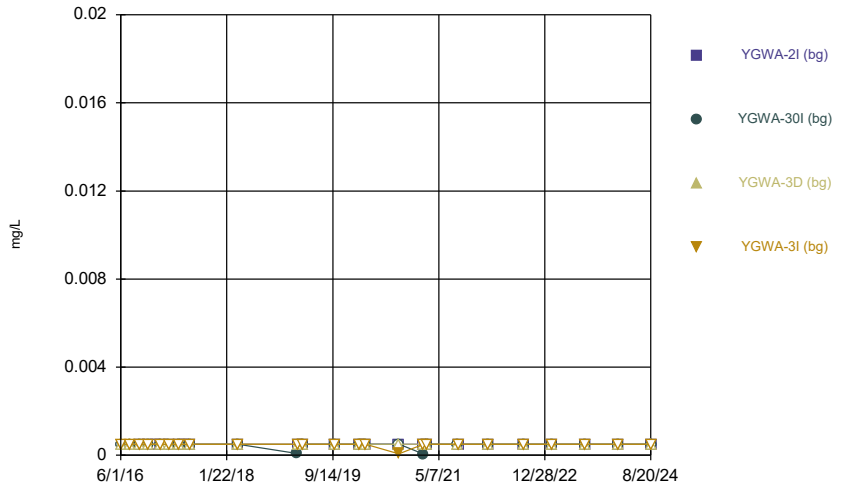
Hollow symbols indicate censored values.

Time Series



Constituent: Beryllium Analysis Run 10/17/2024 10:12 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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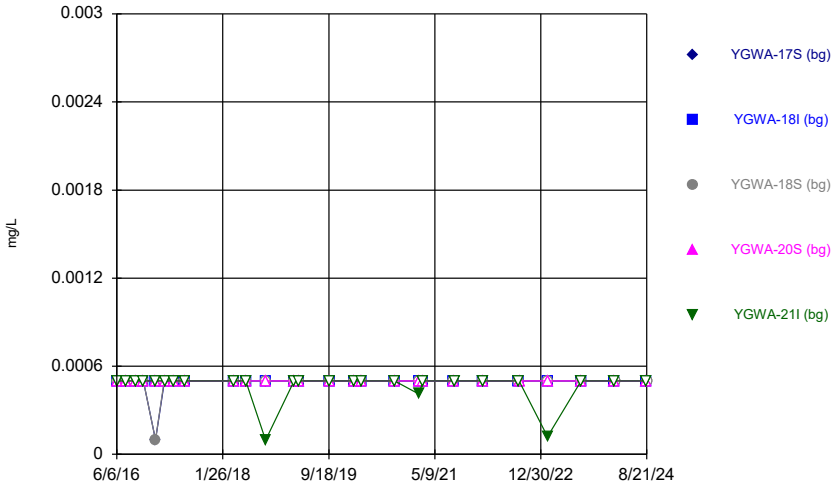
Hollow symbols indicate censored values.

Time Series



Constituent: Cadmium Analysis Run 10/17/2024 10:12 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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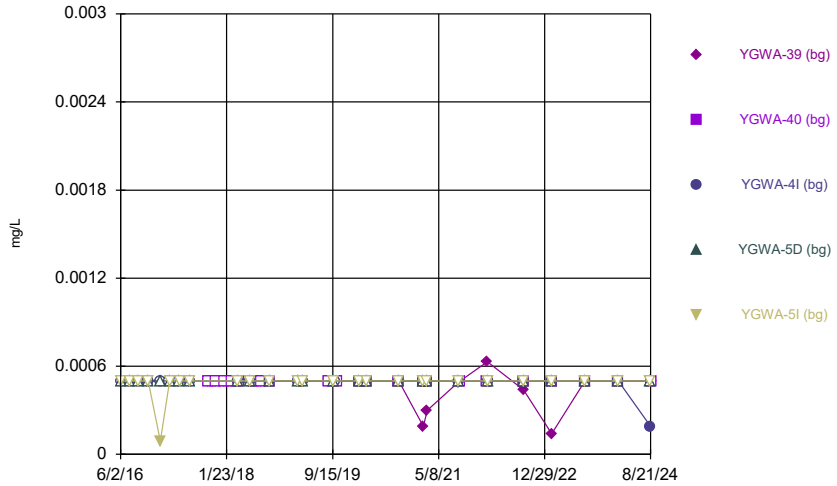
Hollow symbols indicate censored values.

Time Series



Constituent: Cadmium Analysis Run 10/17/2024 10:12 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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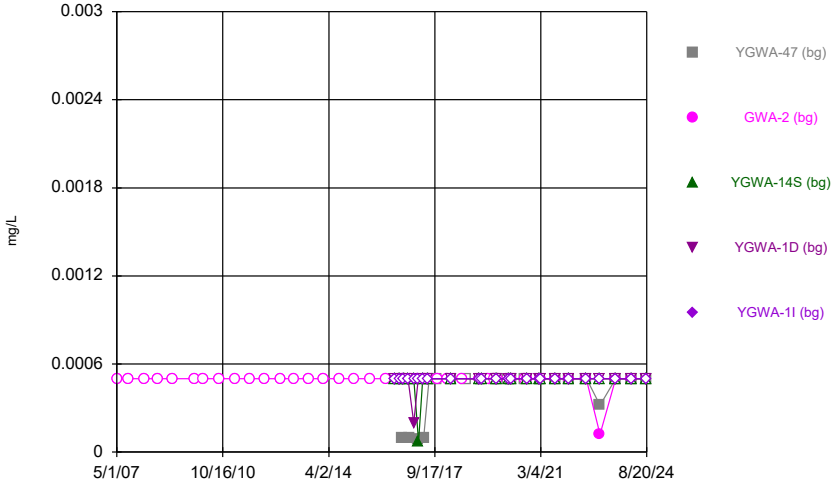
Hollow symbols indicate censored values.

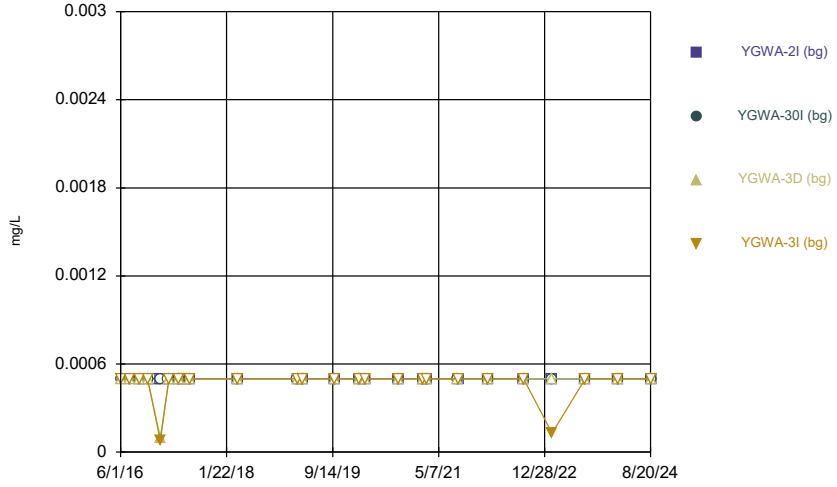
Time Series



Constituent: Cadmium Analysis Run 10/17/2024 10:12 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

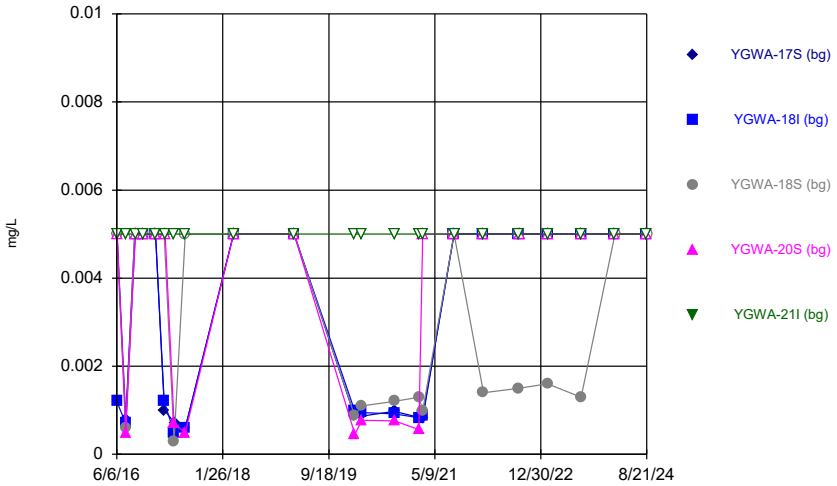
Time Series



Constituent: Cadmium Analysis Run 10/17/2024 10:12 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

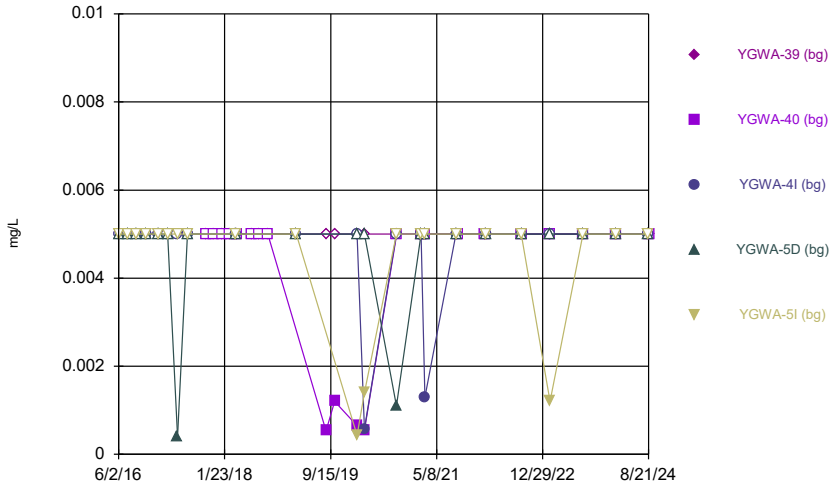
Time Series



Constituent: Chromium Analysis Run 10/17/2024 10:12 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

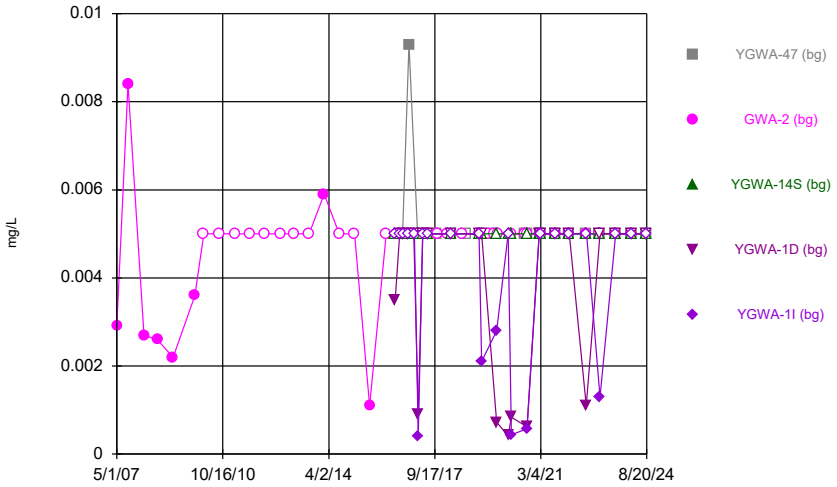
Time Series



Constituent: Chromium Analysis Run 10/17/2024 10:12 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

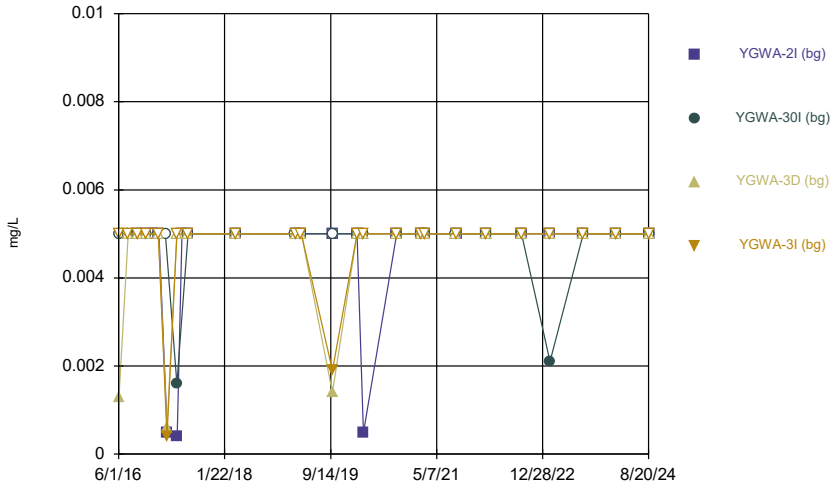
Time Series



Constituent: Chromium Analysis Run 10/17/2024 10:12 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

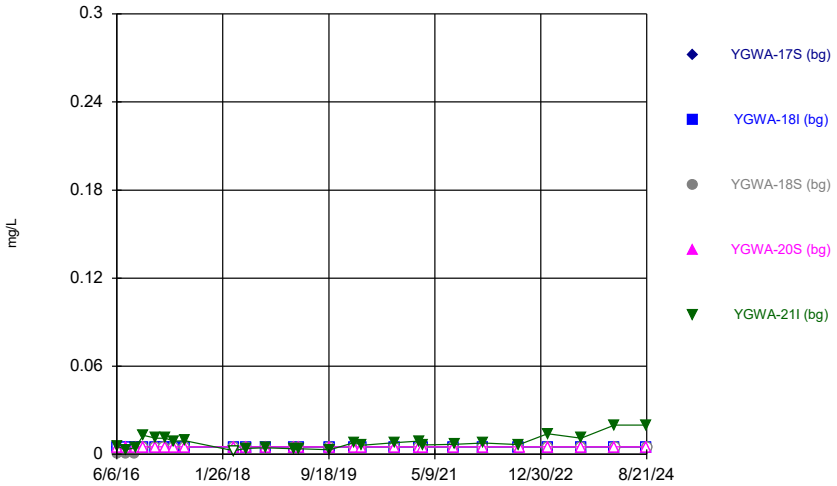
Time Series



Constituent: Chromium Analysis Run 10/17/2024 10:12 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

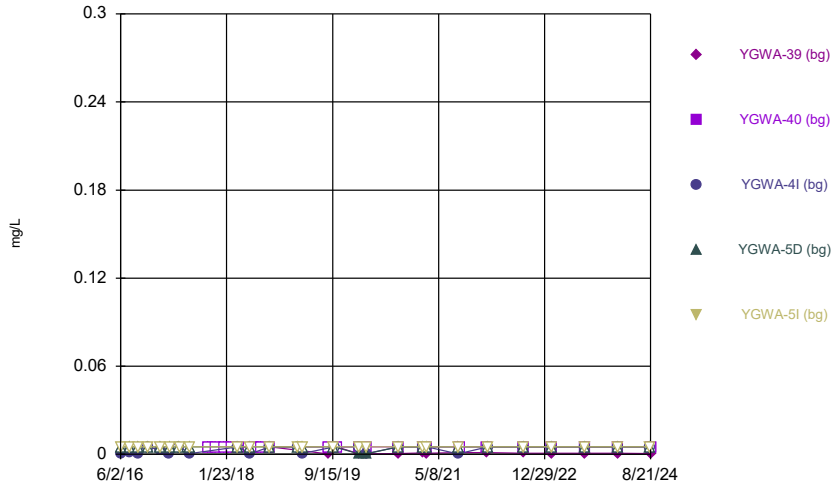
Time Series



Constituent: Cobalt Analysis Run 10/17/2024 10:12 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

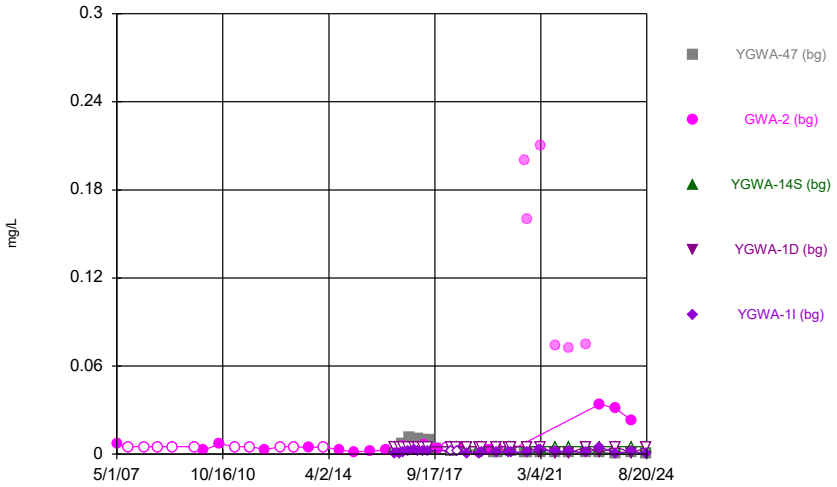
Time Series



Constituent: Cobalt Analysis Run 10/17/2024 10:12 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

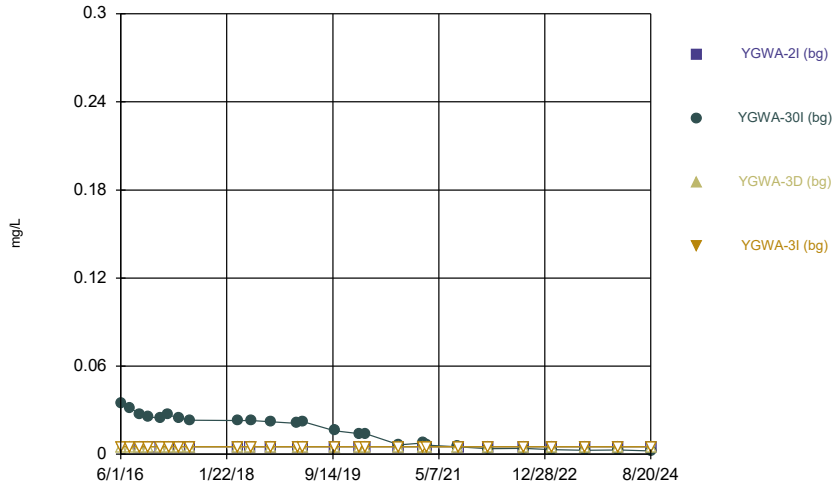
Time Series



Constituent: Cobalt Analysis Run 10/17/2024 10:12 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

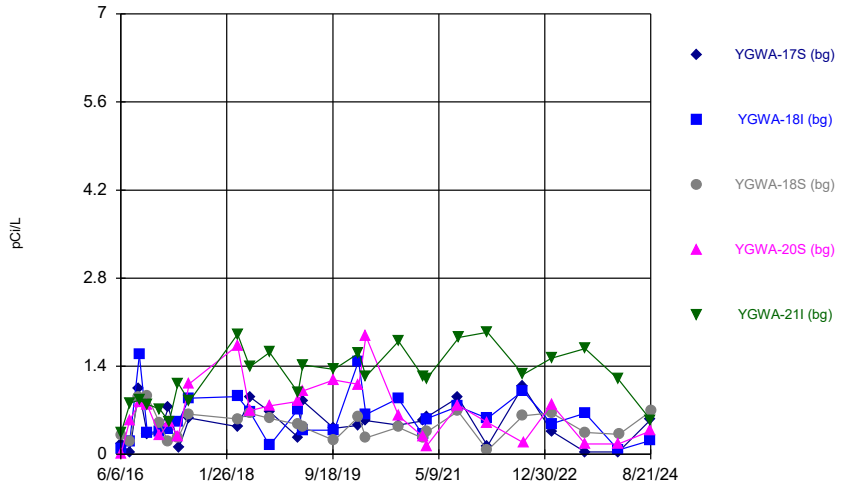
Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Cobalt Analysis Run 10/17/2024 10:12 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

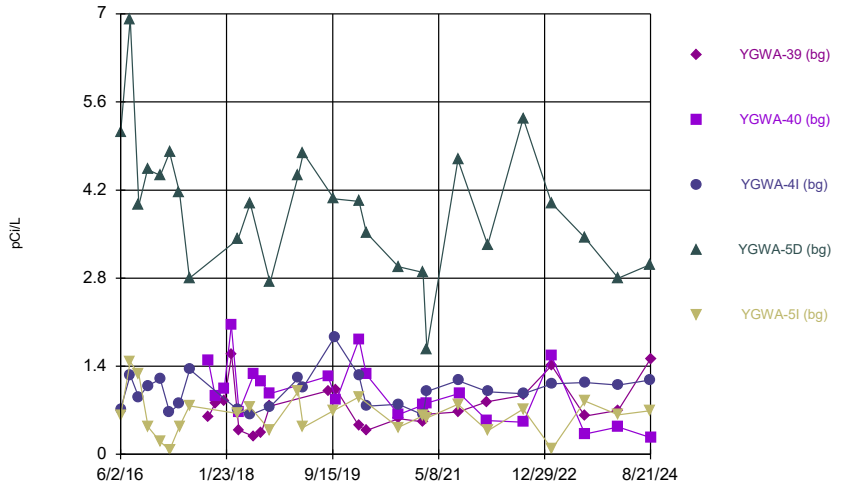
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 10/17/2024 10:12 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG

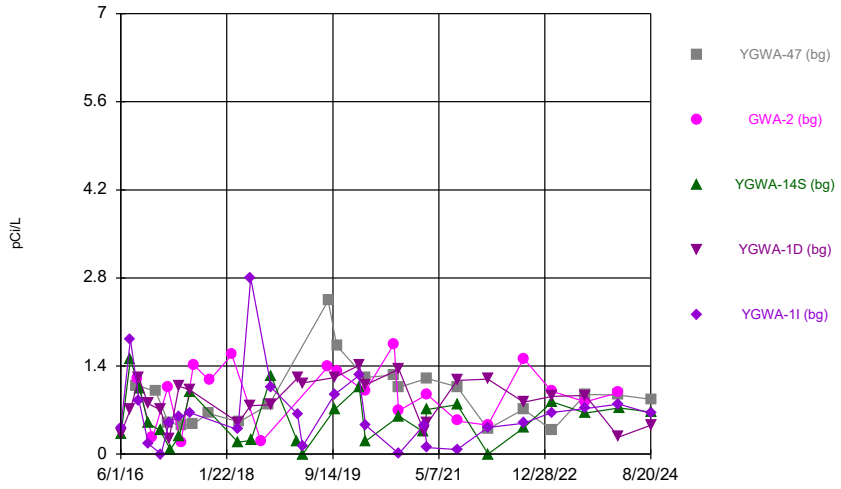
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 10/17/2024 10:12 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG

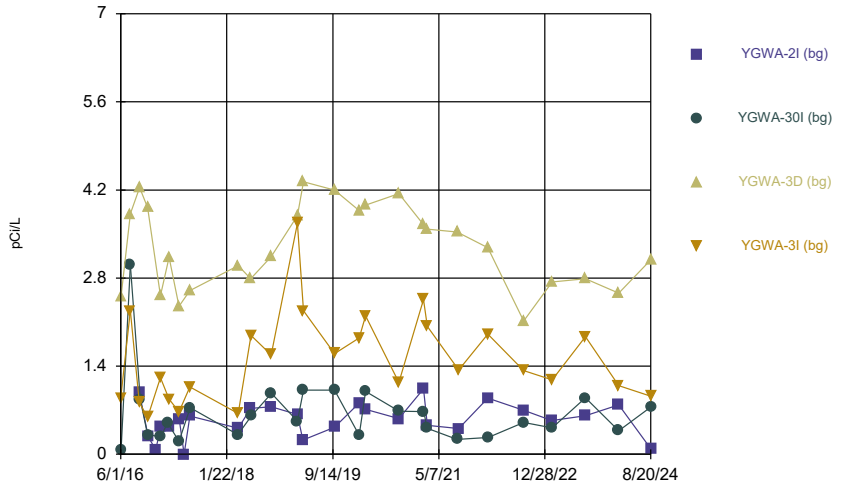
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 10/17/2024 10:12 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG

Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 10/17/2024 10:12 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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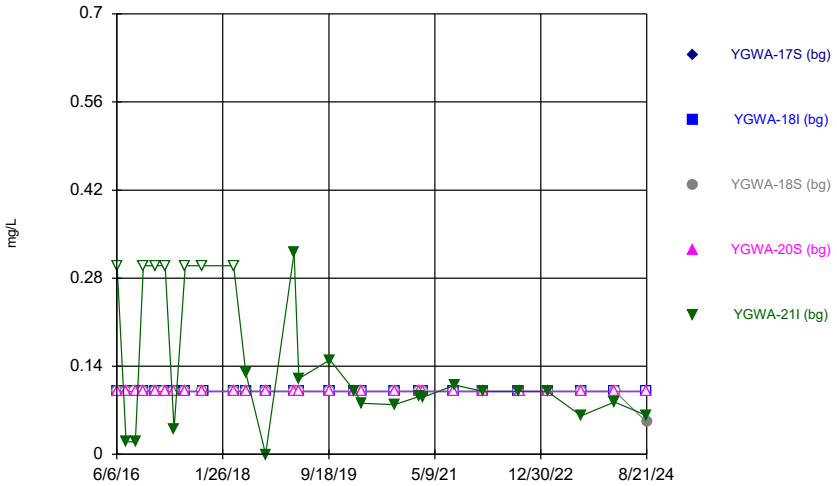
Hollow symbols indicate censored values.

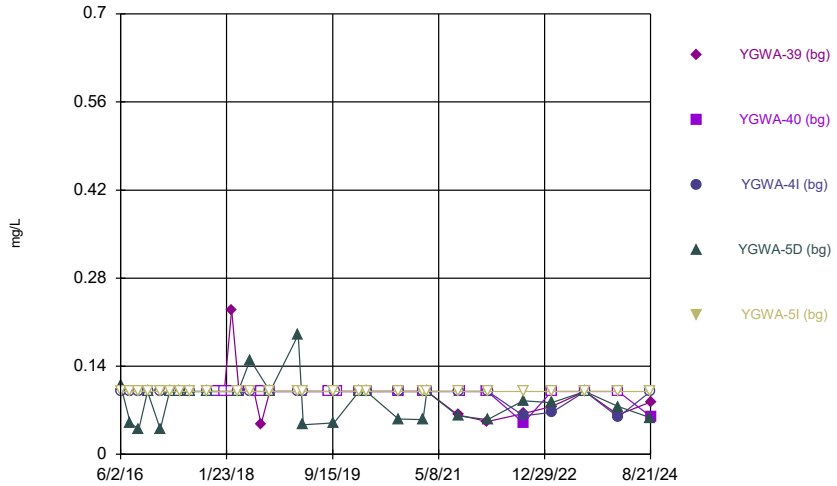
Time Series



Constituent: Fluoride Analysis Run 10/17/2024 10:12 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

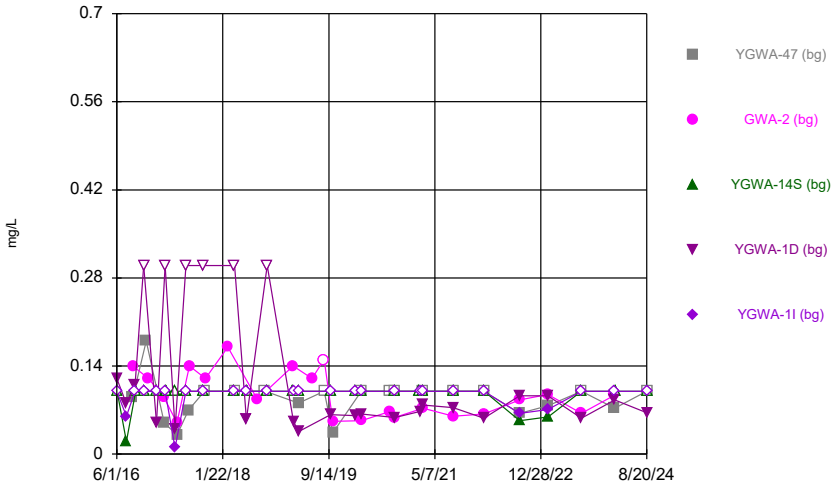
Time Series



Constituent: Fluoride Analysis Run 10/17/2024 10:12 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

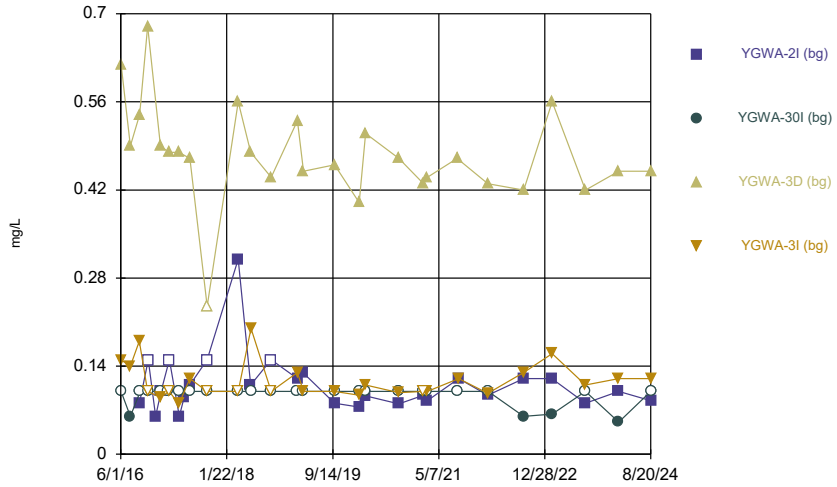
Time Series



Constituent: Fluoride Analysis Run 10/17/2024 10:12 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

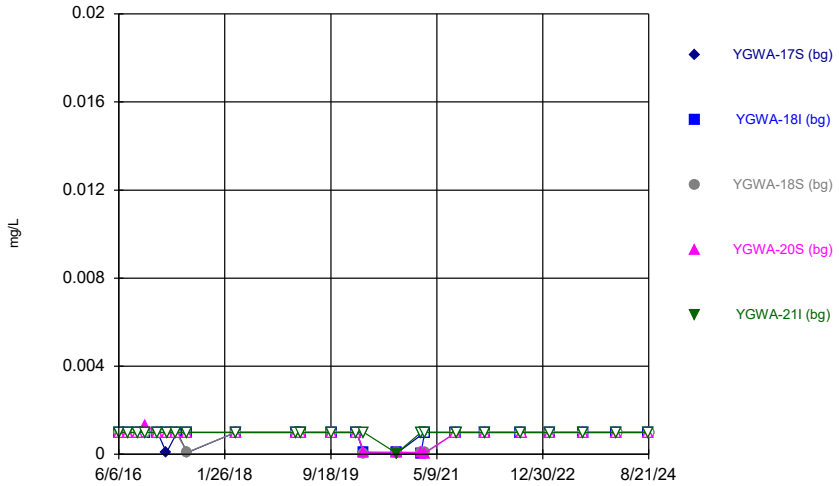
Time Series



Constituent: Fluoride Analysis Run 10/17/2024 10:12 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

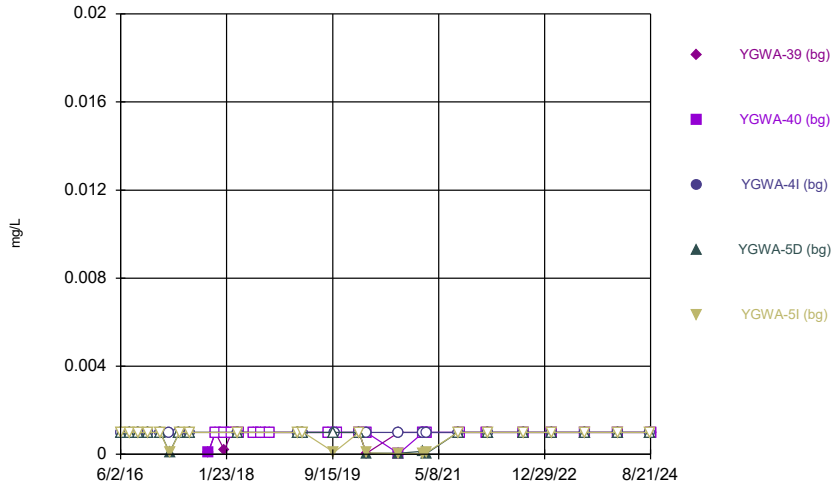
Time Series



Constituent: Lead Analysis Run 10/17/2024 10:12 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

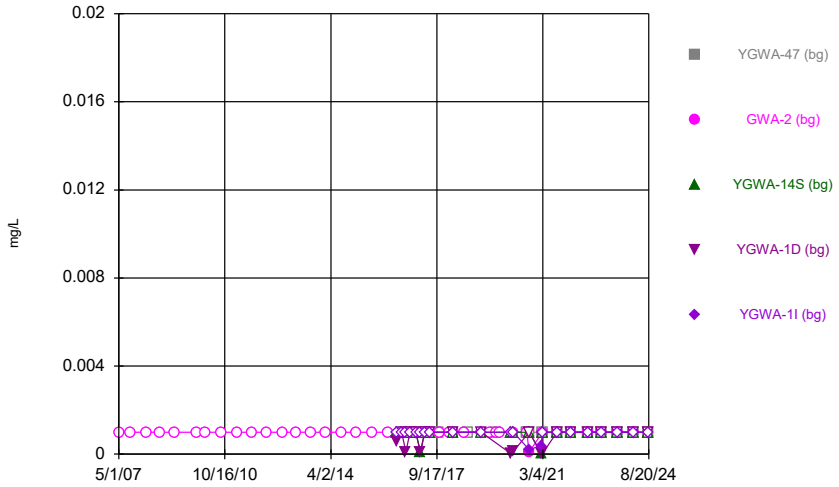
Time Series



Constituent: Lead Analysis Run 10/17/2024 10:12 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

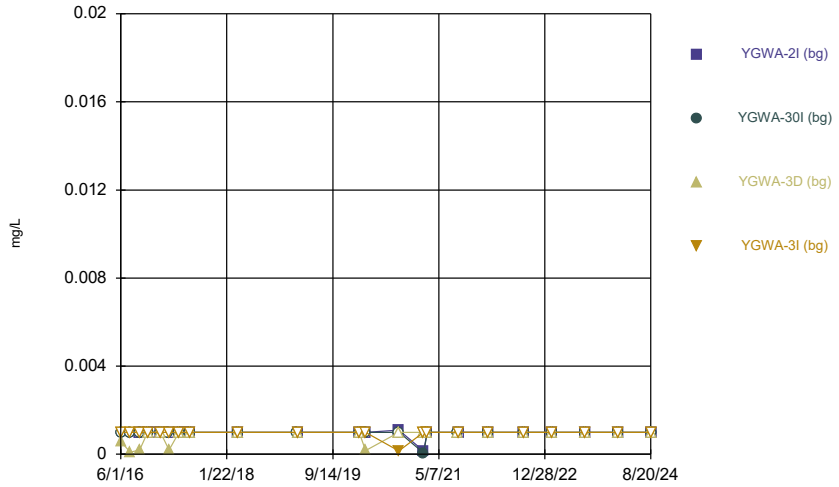
Time Series



Constituent: Lead Analysis Run 10/17/2024 10:12 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

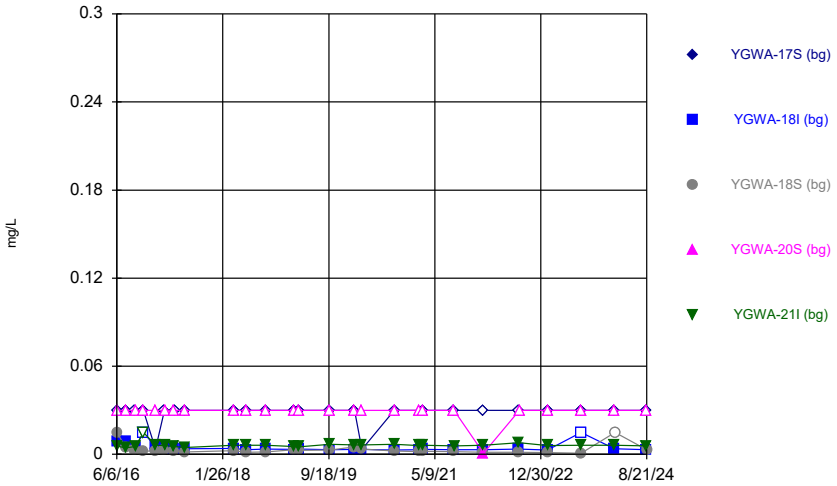
Time Series



Constituent: Lead Analysis Run 10/17/2024 10:12 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

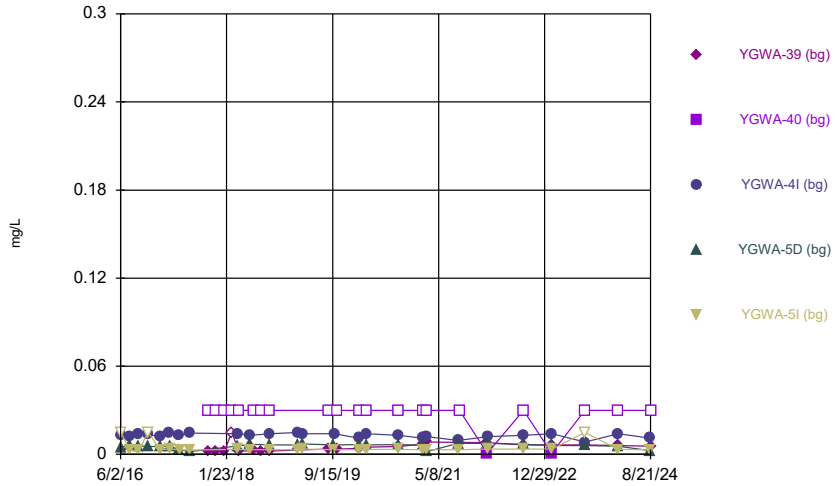
Time Series



Constituent: Lithium Analysis Run 10/17/2024 10:12 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

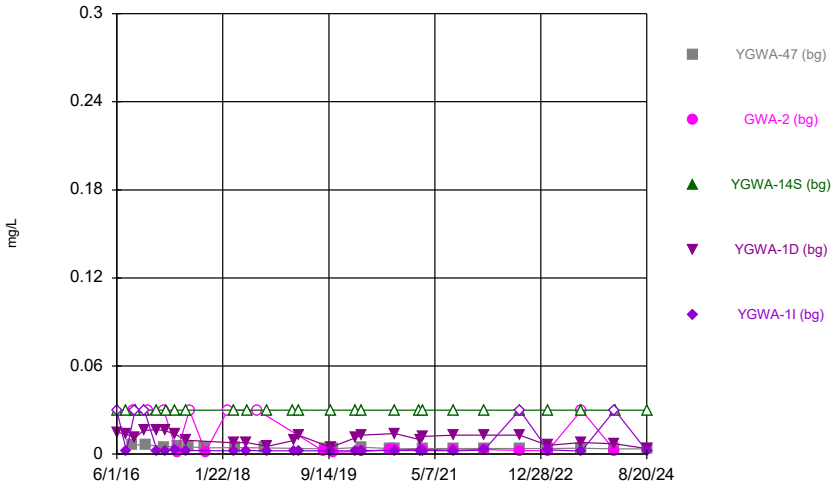
Time Series



Constituent: Lithium Analysis Run 10/17/2024 10:12 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

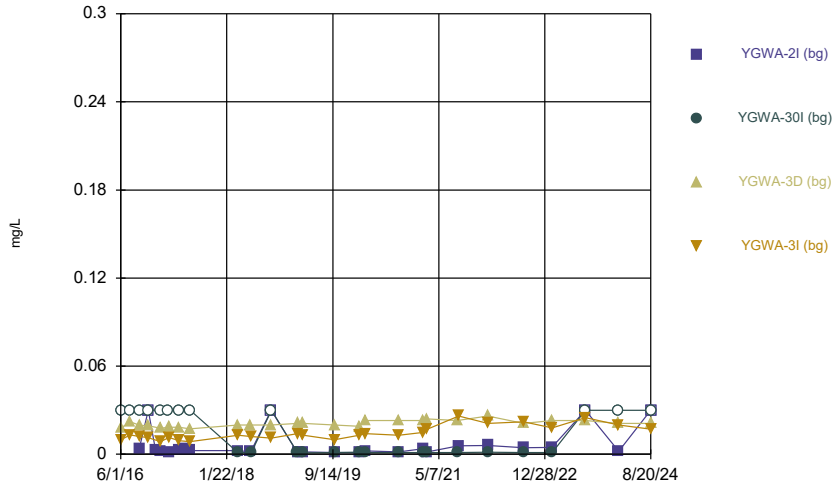
Time Series



Constituent: Lithium Analysis Run 10/17/2024 10:12 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

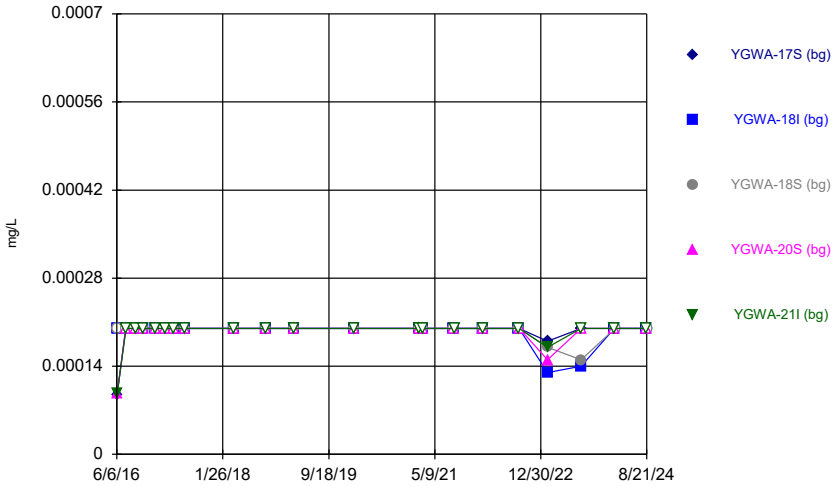
Time Series



Constituent: Lithium Analysis Run 10/17/2024 10:12 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

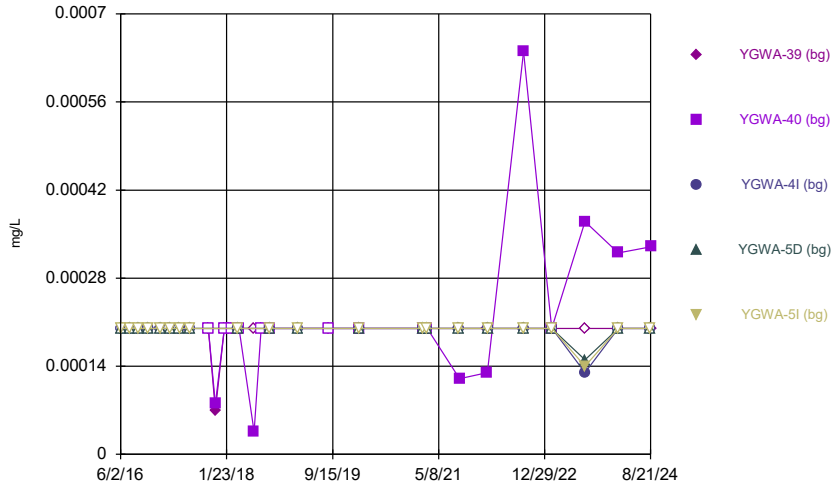
Time Series



Constituent: Mercury Analysis Run 10/17/2024 10:12 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

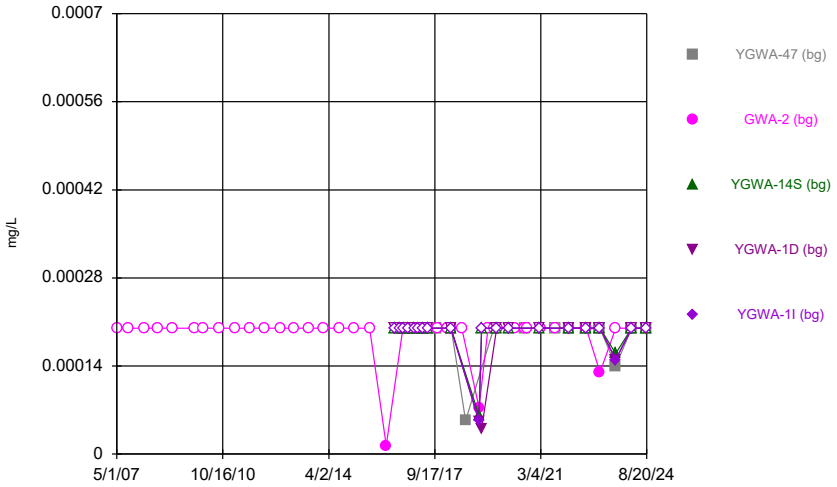
Time Series



Constituent: Mercury Analysis Run 10/17/2024 10:12 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

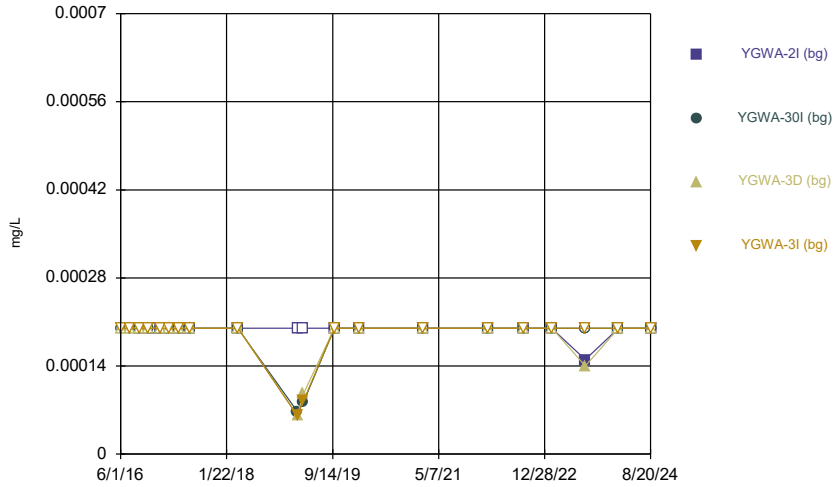
Time Series



Constituent: Mercury Analysis Run 10/17/2024 10:12 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

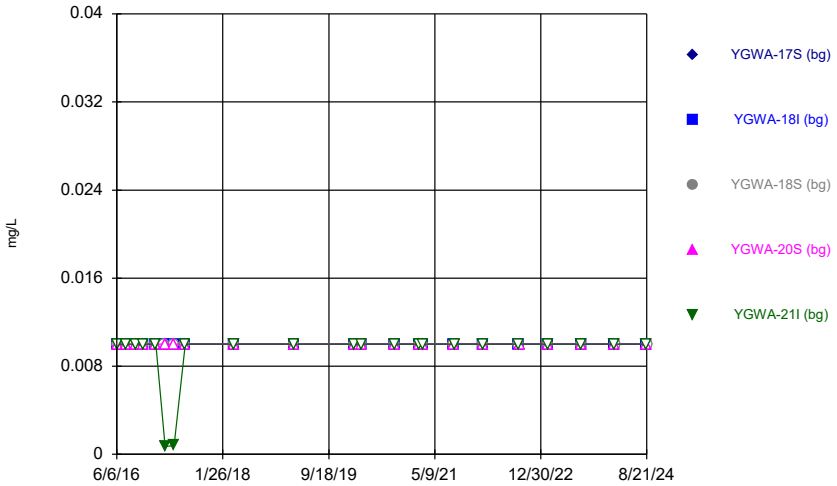
Time Series



Constituent: Mercury Analysis Run 10/17/2024 10:12 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

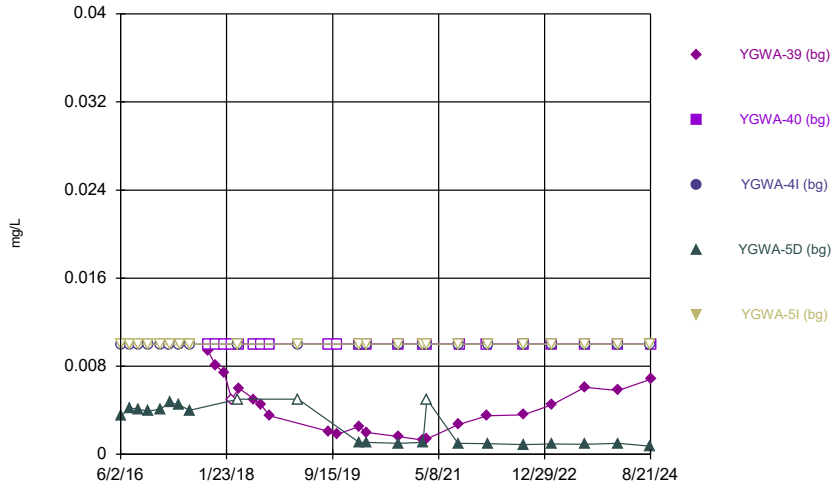
Time Series



Constituent: Molybdenum Analysis Run 10/17/2024 10:12 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

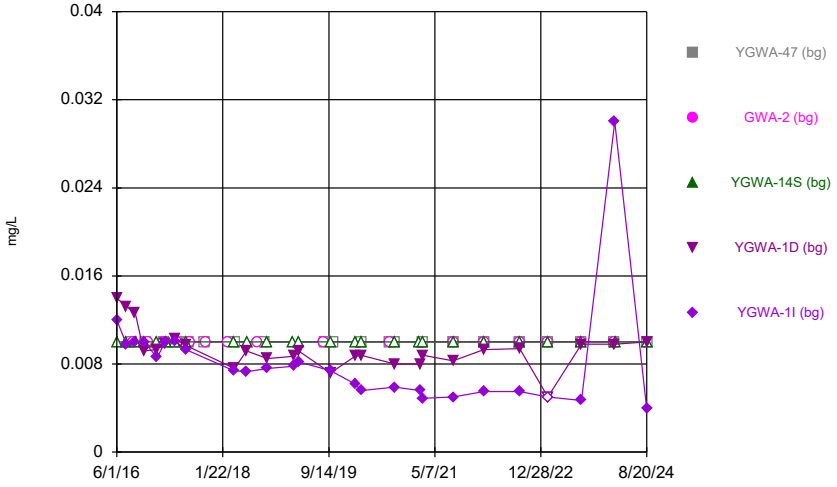
Time Series



Constituent: Molybdenum Analysis Run 10/17/2024 10:12 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

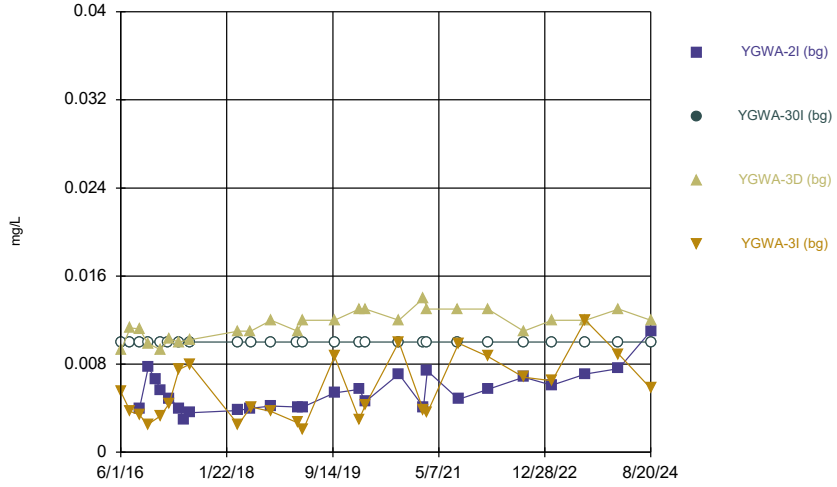
Time Series



Constituent: Molybdenum Analysis Run 10/17/2024 10:12 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

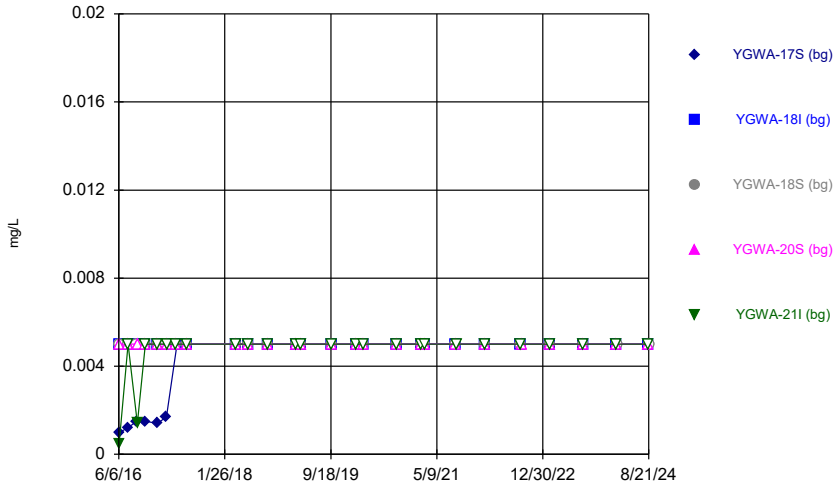
Time Series



Constituent: Molybdenum Analysis Run 10/17/2024 10:12 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

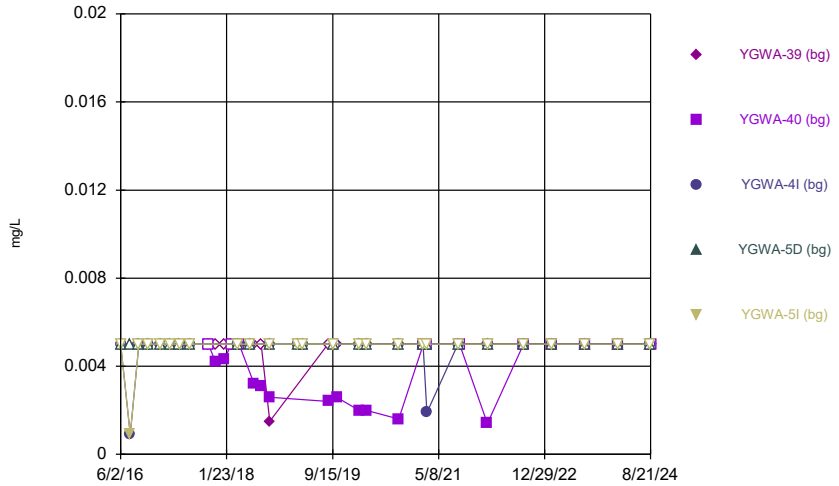
Time Series



Constituent: Selenium Analysis Run 10/17/2024 10:12 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

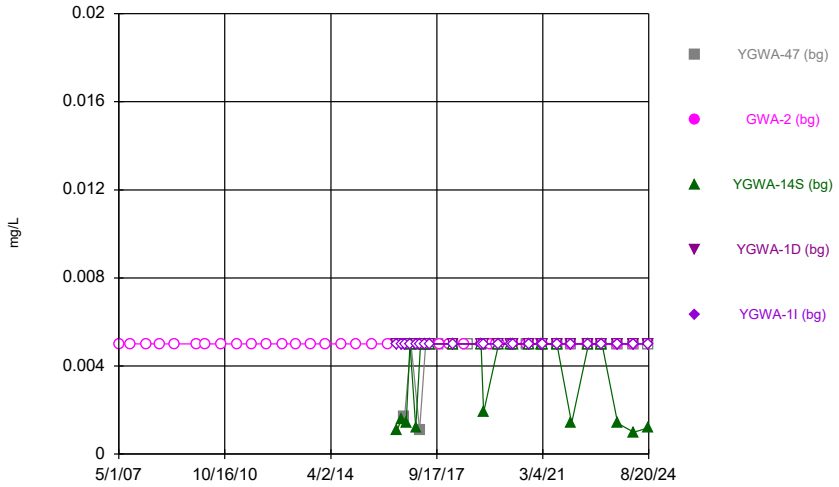
Time Series



Constituent: Selenium Analysis Run 10/17/2024 10:12 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

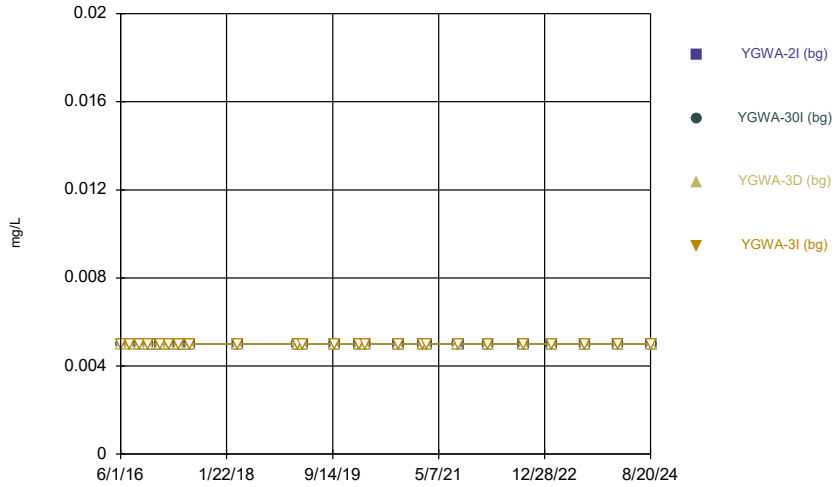
Time Series



Constituent: Selenium Analysis Run 10/17/2024 10:12 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

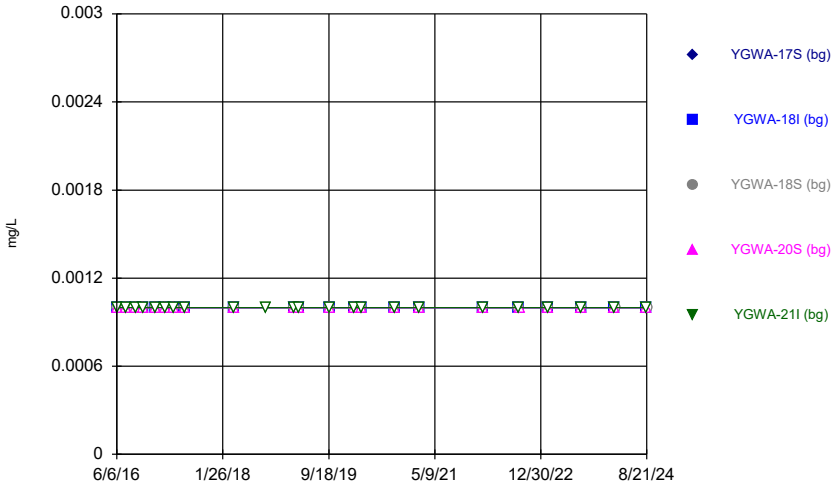
Time Series



Constituent: Selenium Analysis Run 10/17/2024 10:12 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

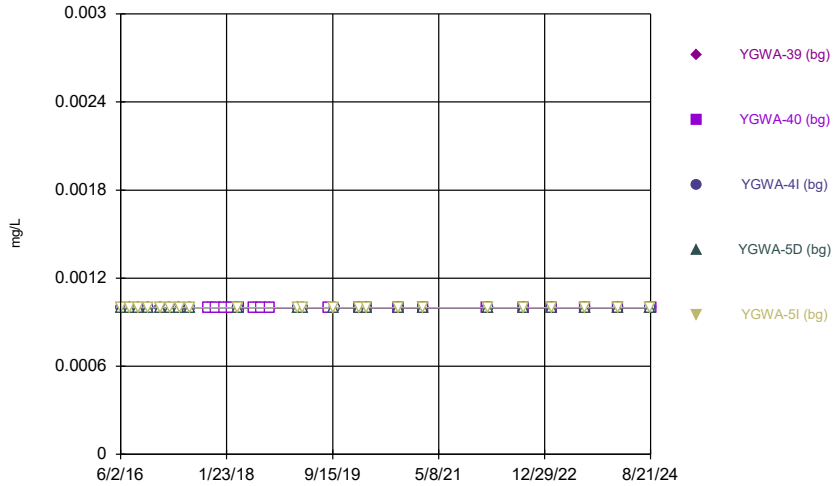
Time Series



Constituent: Thallium Analysis Run 10/17/2024 10:12 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

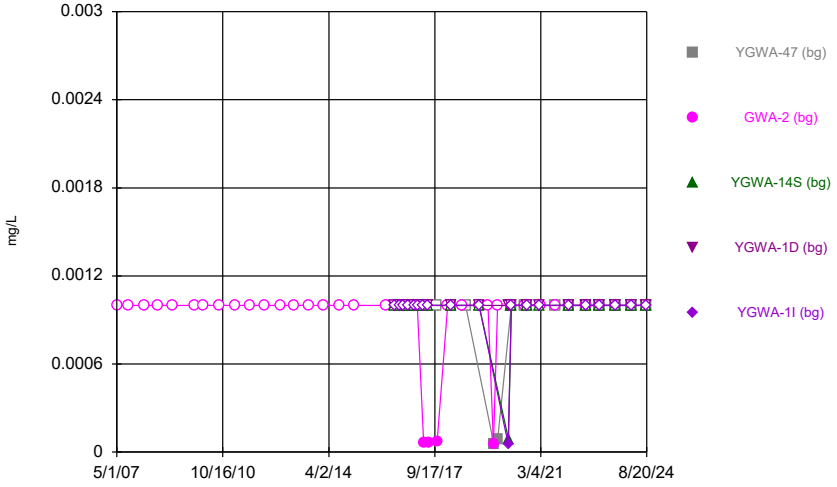
Time Series



Constituent: Thallium Analysis Run 10/17/2024 10:12 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

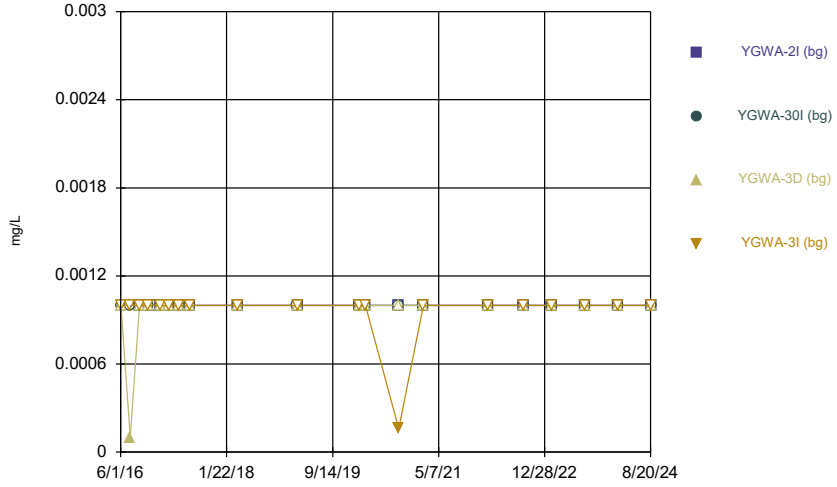
Time Series



Constituent: Thallium Analysis Run 10/17/2024 10:12 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

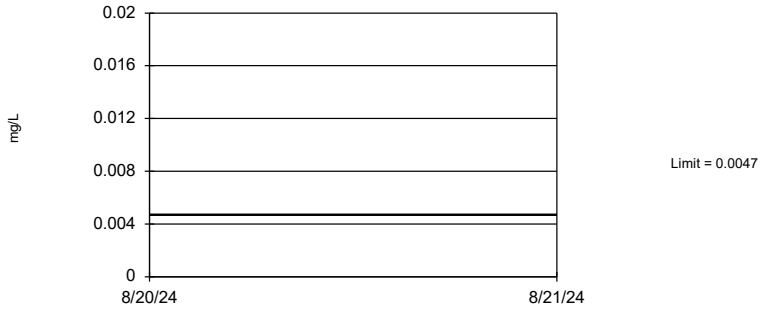
Time Series



Constituent: Thallium Analysis Run 10/17/2024 10:12 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 447 background values. 88.14% 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 10/17/2024 10:10 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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Tolerance Limit

Interwell Non-parametric

Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 495 background values. 75.35% 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 10/17/2024 10:10 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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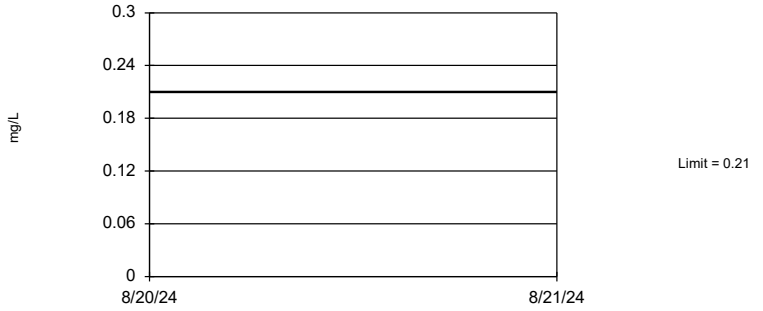
Tolerance Limit

Interwell Non-parametric



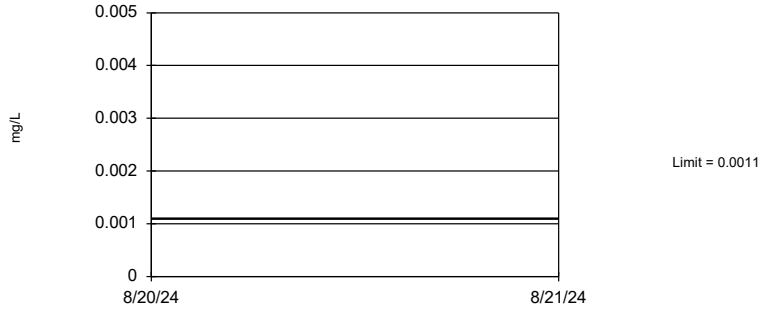
Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 495 background values. 2.222% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Barium Analysis Run 10/17/2024 10:10 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric

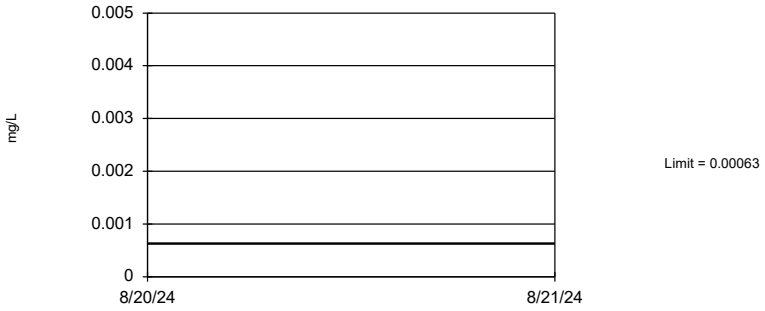


Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 479 background values. 80.17% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Beryllium Analysis Run 10/17/2024 10:10 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Tolerance Limit

Interwell Non-parametric

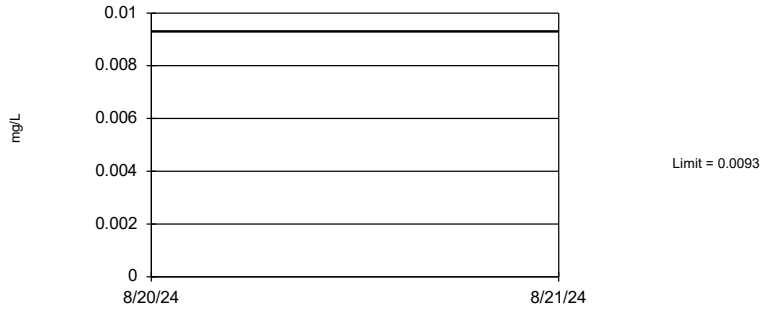


Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 479 background values. 94.99% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Cadmium Analysis Run 10/17/2024 10:10 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Tolerance Limit

Interwell Non-parametric

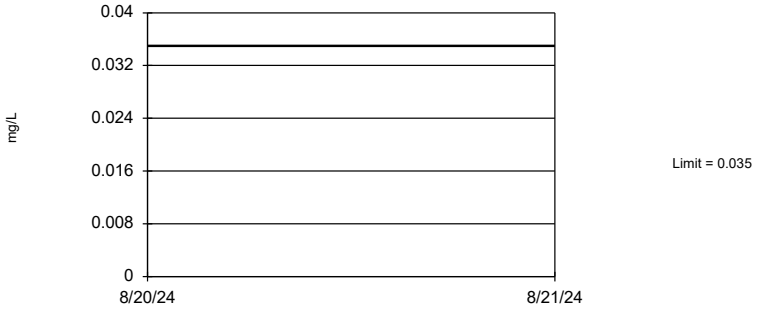


Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 447 background values. 82.33% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Chromium Analysis Run 10/17/2024 10:10 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Tolerance Limit

Interwell Non-parametric

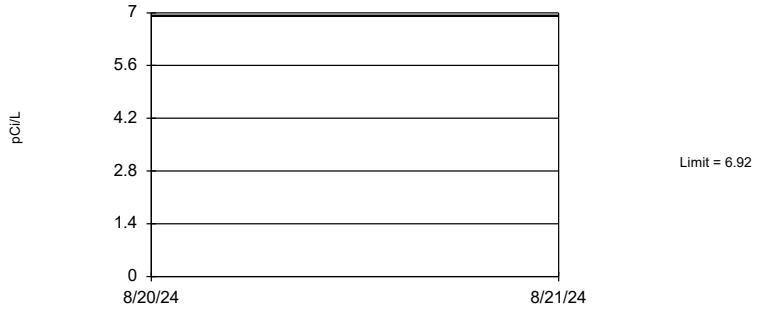


Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 489 background values. 68.92% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Cobalt Analysis Run 10/17/2024 10:10 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Tolerance Limit

Interwell Non-parametric

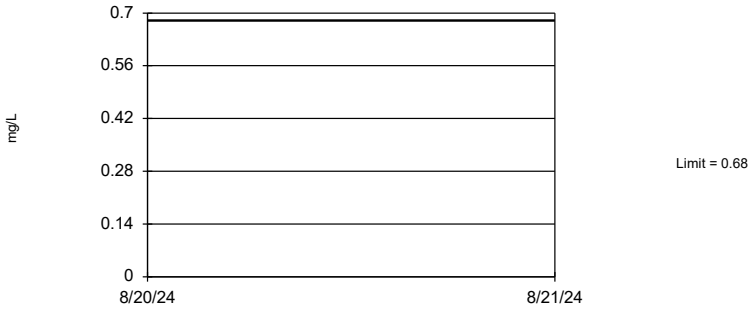


Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 474 background values. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Combined Radium 226 + 228 Analysis Run 10/17/2024 10:10 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Tolerance Limit

Interwell Non-parametric

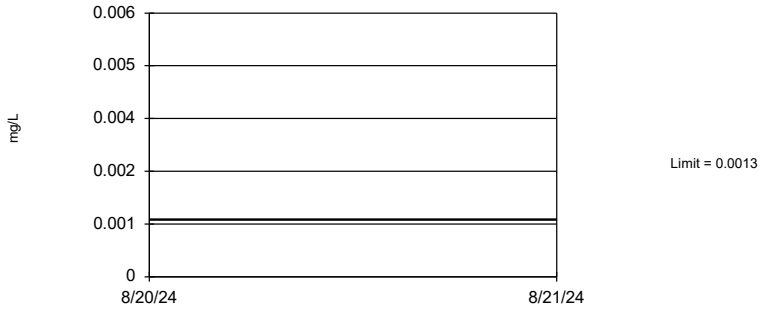


Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 494 background values. 62.96% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Fluoride Analysis Run 10/17/2024 10:10 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 449 background values. 87.75% 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 10/17/2024 10:10 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Tolerance Limit

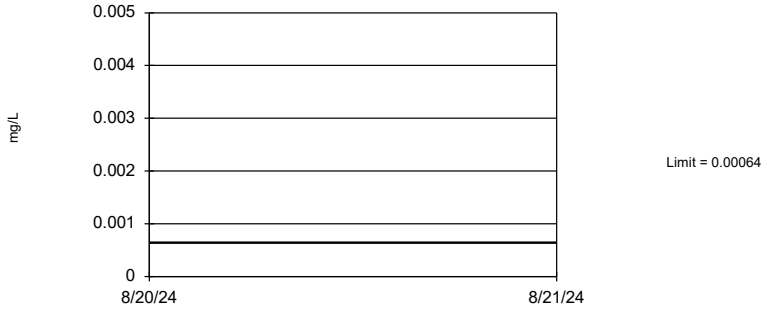
Interwell Non-parametric

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 474 background values. 27.43% 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 10/17/2024 10:11 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 403 background values. 89.58% 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: Mercury Analysis Run 10/17/2024 10:11 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Tolerance Limit

Interwell Non-parametric

Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 438 background values. 61.19% 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 10/17/2024 10:11 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Tolerance Limit

Interwell Non-parametric

Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 477 background values. 92.87% 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 10/17/2024 10:11 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Tolerance Limit

Interwell Non-parametric

Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 413 background values. 97.58% 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: Thallium Analysis Run 10/17/2024 10:11 AM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

FIGURE H.

YATES AMA-R6 GWPS				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.0047	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.21	2
Beryllium, Total (mg/L)	0.004		0.0011	0.004
Cadmium, Total (mg/L)	0.005		0.00063	0.005
Chromium, Total (mg/L)	0.1		0.0093	0.1
Cobalt, Total (mg/L)		0.006	0.035	0.035
Combined Radium, Total (pCi/L)	5		6.92	6.92
Fluoride, Total (mg/L)	4		0.68	4
Lead, Total (mg/L)		0.015	0.0013	0.015
Lithium, Total (mg/L)		0.04	0.03	0.04
Mercury, Total (mg/L)	0.002		0.00064	0.002
Molybdenum, Total (mg/L)		0.1	0.03	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 I.

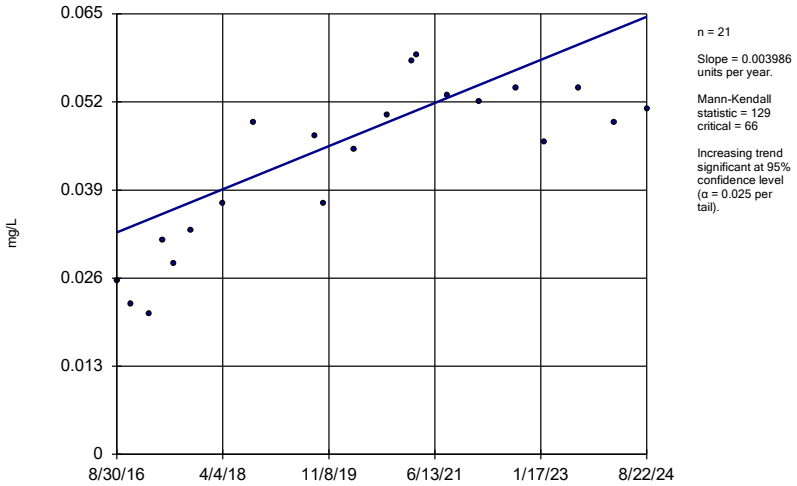
Appendix IV Trend Tests - Lithium & Selenium - All/Significant Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 10/28/2024, 8:46 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Lithium (mg/L)	**YGWC-42**	**0.003986**	**129**	**66**	**Yes**	**21**	**0**	**n/a**	**0.05**	**NP**
Selenium (mg/L)	**YGWC-38**	**-0.03662**	**-195**	**-66**	**Yes**	**21**	**0**	**n/a**	**0.05**	**NP**

Sen's Slope Estimator

YGWC-42



n = 21

Slope = 0.003986 units per year.

Mann-Kendall statistic = 129
critical = 66

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 10/28/2024 8:46 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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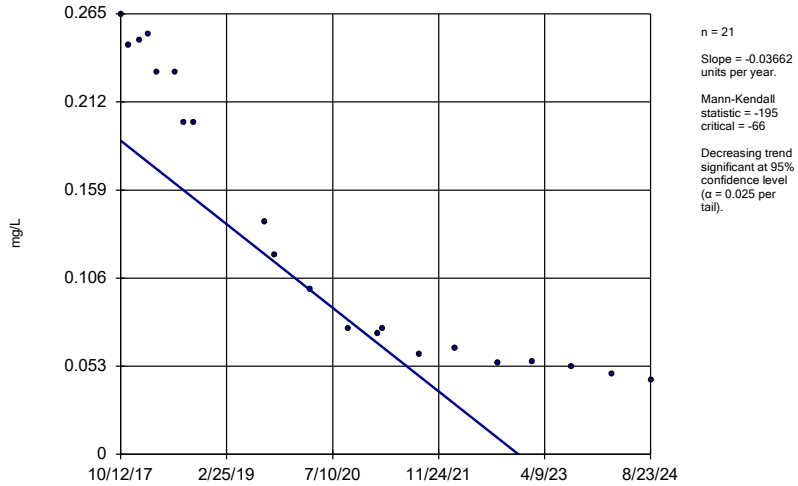
Sen's Slope Estimator

YGWC-38



n = 21

Slope = -0.03662 units per year.

Mann-Kendall statistic = -195
critical = -66

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 10/28/2024 8:46 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

FIGURE J.

Confidence Interval Summary Table - Significant Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 11/8/2024, 2:41 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	**YGWC-42**	**0.05633**	**0.04817**	**0.04**	**Yes**	**8**	**0.05225**	**0.003845**	**0**	**None**	**No**	**0.01**	**Param.**
Selenium (mg/L)	**PZ-37**	**0.2637**	**0.1832**	**0.05**	**Yes**	**18**	**0.2234**	**0.06648**	**0**	**None**	**No**	**0.01**	**Param.**

Confidence Interval Summary Table - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 11/8/2024, 2:41 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	PZ-35	0.003	0.00039	0.006	No	12	0.002783	0.0007534	91.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-37	0.0085	0.0014	0.006	No	18	0.002953	0.001612	77.78	None	No	0.01	NP (NDs)
Antimony (mg/L)	PZ-37D	0.003	0.0013	0.006	No	7	0.002543	0.0007829	71.43	None	No	0.008	NP (NDs)
Antimony (mg/L)	PZ-52D	0.003	0.00081	0.006	No	6	0.002635	0.0008941	83.33	None	No	0.0155	NP (NDs)
Antimony (mg/L)	YAMW-1	0.025	0.0016	0.006	No	12	0.004389	0.006541	58.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	YAMW-4	0.003	0.00065	0.006	No	10	0.002167	0.001093	60	None	No	0.011	NP (NDs)
Antimony (mg/L)	YAMW-5	0.003	0.003	0.006	No	10	0.002733	0.0008443	90	None	No	0.011	NP (NDs)
Antimony (mg/L)	YGWC-23S	0.003	0.00085	0.006	No	23	0.002576	0.0009494	82.61	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-24SB	0.003	0.0009	0.006	No	22	0.002905	0.0004477	95.45	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-36A	0.0041	0.0015	0.006	No	23	0.003704	0.005442	52.17	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-38	0.003	0.0015	0.006	No	20	0.002553	0.0009406	80	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-41	0.003	0.0014	0.006	No	20	0.00292	0.0003578	95	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-42	0.003	0.00053	0.006	No	20	0.002877	0.0005523	95	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-43	0.003	0.0026	0.006	No	20	0.002846	0.0006034	90	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-49	0.003	0.0011	0.006	No	20	0.002782	0.0006789	90	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-35	0.005	0.00096	0.01	No	13	0.003665	0.001821	61.54	None	No	0.01	NP (NDs)
Arsenic (mg/L)	PZ-37	0.005	0.0011	0.01	No	18	0.002869	0.00187	38.89	None	No	0.01	NP (normality)
Arsenic (mg/L)	PZ-37D	0.005	0.0014	0.01	No	7	0.004314	0.001361	71.43	None	No	0.008	NP (NDs)
Arsenic (mg/L)	PZ-51	0.005	0.0013	0.01	No	6	0.003833	0.001812	66.67	None	No	0.0155	NP (NDs)
Arsenic (mg/L)	PZ-52D	0.00467	0.0004411	0.01	No	6	0.003567	0.001888	33.33	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	YAMW-1	0.005	0.0023	0.01	No	13	0.004356	0.001324	76.92	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YAMW-3	0.005	0.0015	0.01	No	6	0.00375	0.001559	50	None	No	0.0155	NP (normality)
Arsenic (mg/L)	YAMW-4	0.005	0.001	0.01	No	10	0.003149	0.001816	40	None	No	0.011	NP (normality)
Arsenic (mg/L)	YAMW-5	0.002859	0.001178	0.01	No	10	0.003225	0.001726	40	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	YGWC-23S	0.005	0.0025	0.01	No	25	0.004748	0.0008922	92	Kaplan-Meier	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-24SB	0.005	0.0035	0.01	No	24	0.004683	0.0009054	87.5	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-36A	0.005	0.0047	0.01	No	25	0.004154	0.001704	76	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-38	0.005	0.0008	0.01	No	21	0.00245	0.001896	33.33	None	No	0.01	NP (normality)
Arsenic (mg/L)	YGWC-41	0.005	0.001	0.01	No	21	0.003339	0.002026	57.14	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-42	0.002209	0.001435	0.01	No	21	0.002522	0.00137	19.05	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	YGWC-43	0.005	0.0022	0.01	No	21	0.003983	0.001734	71.43	Kaplan-Meier	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-49	0.005	0.001	0.01	No	20	0.004373	0.001533	85	Kaplan-Meier	No	0.01	NP (NDs)
Barium (mg/L)	PZ-35	0.1262	0.04373	2	No	13	0.08854	0.06072	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	PZ-37	0.04879	0.03089	2	No	18	0.03984	0.0148	0	None	No	0.01	Param.
Barium (mg/L)	PZ-37D	0.02958	0.0127	2	No	7	0.02114	0.007105	0	None	No	0.01	Param.
Barium (mg/L)	PZ-51	0.01654	0.01279	2	No	6	0.01467	0.001366	0	None	No	0.01	Param.
Barium (mg/L)	PZ-52D	0.02587	0.005707	2	No	6	0.0145	0.008919	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	YAMW-1	0.087	0.035	2	No	13	0.06338	0.02386	0	None	No	0.01	NP (normality)
Barium (mg/L)	YAMW-2	0.009055	0.007145	2	No	10	0.0081	0.001071	0	None	No	0.01	Param.
Barium (mg/L)	YAMW-3	0.04337	0.02197	2	No	6	0.03267	0.007789	0	None	No	0.01	Param.
Barium (mg/L)	YAMW-4	0.02	0.003	2	No	10	0.00695	0.007215	0	None	No	0.011	NP (normality)
Barium (mg/L)	YAMW-5	0.042	0.034	2	No	10	0.0387	0.006929	0	None	No	0.011	NP (normality)
Barium (mg/L)	YGWC-23S	0.04922	0.03742	2	No	25	0.04168	0.01346	0	None	x^2	0.01	Param.
Barium (mg/L)	YGWC-24SB	0.025	0.019	2	No	24	0.02223	0.00447	0	None	No	0.01	NP (normality)
Barium (mg/L)	YGWC-36A	0.05919	0.0349	2	No	25	0.05322	0.03768	0	None	ln(x)	0.01	Param.
Barium (mg/L)	YGWC-38	0.02154	0.01689	2	No	21	0.01921	0.00422	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-41	0.02696	0.0201	2	No	21	0.02353	0.006216	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-42	0.0404	0.02785	2	No	21	0.03412	0.01138	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-43	0.03305	0.02075	2	No	21	0.0269	0.01115	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-49	0.07528	0.06443	2	No	20	0.06986	0.009561	0	None	No	0.01	Param.
Beryllium (mg/L)	PZ-35	0.0007998	0.0003219	0.004	No	14	0.0005836	0.0003793	14.29	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	PZ-37	0.0011	0.00025	0.004	No	18	0.0005822	0.000401	11.11	None	No	0.01	NP (normality)
Beryllium (mg/L)	PZ-51	0.003399	0.002501	0.004	No	6	0.00295	0.0003271	0	None	No	0.01	Param.
Beryllium (mg/L)	PZ-52D	0.0005	0.000059	0.004	No	6	0.0003575	0.0002209	66.67	None	No	0.0155	NP (NDs)
Beryllium (mg/L)	YAMW-1	0.000202	0.00008345	0.004	No	13	0.0002645	0.0001831	30.77	Kaplan-Meier	ln(x)	0.01	Param.

Confidence Interval Summary Table - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 11/8/2024, 2:41 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	YAMW-2	0.0005	0.000055	0.004	No	10	0.0002371	0.0002264	40	None	No	0.011	NP (normality)
Beryllium (mg/L)	YAMW-3	0.0001907	0.00005268	0.004	No	6	0.0001217	0.00005022	0	None	No	0.01	Param.
Beryllium (mg/L)	YAMW-5	0.0001442	0.0001078	0.004	No	11	0.000126	0.00002182	0	None	No	0.01	Param.
Beryllium (mg/L)	YGWC-23S	0.00022	0.00009	0.004	No	25	0.0002082	0.0001568	20	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-24SB	0.0001568	0.0001056	0.004	No	24	0.0001346	0.00005306	12.5	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	YGWC-36A	0.0004709	0.0002147	0.004	No	25	0.0004524	0.0004977	4	None	ln(x)	0.01	Param.
Beryllium (mg/L)	YGWC-38	0.004728	0.003015	0.004	No	21	0.003871	0.001553	0	None	No	0.01	Param.
Beryllium (mg/L)	YGWC-41	0.0037	0.0013	0.004	No	21	0.002433	0.00108	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-42	0.0005	0.000067	0.004	No	21	0.0003373	0.0002127	61.9	None	No	0.01	NP (NDs)
Beryllium (mg/L)	YGWC-43	0.000396	0.0002574	0.004	No	21	0.0003952	0.0001268	28.57	Kaplan-Meier	No	0.01	Param.
Beryllium (mg/L)	YGWC-49	0.00013	0.0001	0.004	No	20	0.0001225	0.00003582	5	None	No	0.01	NP (normality)
Cadmium (mg/L)	PZ-35	0.0005	0.00016	0.005	No	13	0.0003615	0.0001602	53.85	None	No	0.01	NP (NDs)
Cadmium (mg/L)	PZ-37	0.0007873	0.0004627	0.005	No	18	0.000625	0.0002682	11.11	None	No	0.01	Param.
Cadmium (mg/L)	PZ-51	0.0019	0.0017	0.005	No	6	0.00175	0.00008367	0	None	No	0.0155	NP (normality)
Cadmium (mg/L)	YAMW-1	0.0005	0.00014	0.005	No	13	0.0002785	0.0001567	30.77	None	No	0.01	NP (normality)
Cadmium (mg/L)	YAMW-2	0.0005	0.0005	0.005	No	10	0.000465	0.0001107	90	None	No	0.011	NP (NDs)
Cadmium (mg/L)	YAMW-3	0.0005	0.00025	0.005	No	6	0.00043	0.0001058	50	None	No	0.0155	NP (normality)
Cadmium (mg/L)	YAMW-5	0.00025	0.00018	0.005	No	10	0.00024	0.00008028	0	None	No	0.011	NP (normality)
Cadmium (mg/L)	YGWC-23S	0.0005	0.00007	0.005	No	25	0.0004828	0.000086	96	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-36A	0.0005	0.00014	0.005	No	10	0.000426	0.0001561	80	None	No	0.011	NP (NDs)
Cadmium (mg/L)	YGWC-38	0.002338	0.00136	0.005	No	21	0.001849	0.0008857	0	None	No	0.01	Param.
Cadmium (mg/L)	YGWC-41	0.0005	0.00018	0.005	No	21	0.000341	0.0001598	47.62	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-42	0.0005	0.0002	0.005	No	21	0.0004005	0.0001576	57.14	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-49	0.0005	0.00007	0.005	No	20	0.0004785	0.00009615	95	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-35	0.005	0.00061	0.1	No	11	0.003155	0.002138	54.55	None	No	0.006	NP (NDs)
Chromium (mg/L)	PZ-37	0.005	0.0019	0.1	No	18	0.004422	0.001339	83.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	PZ-52D	0.005	0.0011	0.1	No	6	0.00435	0.001592	83.33	None	No	0.0155	NP (NDs)
Chromium (mg/L)	YAMW-1	0.005	0.00074	0.1	No	11	0.003125	0.002161	54.55	None	No	0.006	NP (NDs)
Chromium (mg/L)	YAMW-2	0.005	0.0011	0.1	No	10	0.003601	0.0019	60	None	No	0.011	NP (NDs)
Chromium (mg/L)	YAMW-3	0.005	0.0011	0.1	No	6	0.00435	0.001592	83.33	None	No	0.0155	NP (NDs)
Chromium (mg/L)	YAMW-4	0.005	0.005	0.1	No	10	0.004557	0.001401	90	None	No	0.011	NP (NDs)
Chromium (mg/L)	YAMW-5	0.005	0.005	0.1	No	10	0.00466	0.001075	90	None	No	0.011	NP (NDs)
Chromium (mg/L)	YGWC-23S	0.005	0.0011	0.1	No	21	0.003692	0.00191	66.67	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-24SB	0.005	0.0011	0.1	No	20	0.004407	0.001449	85	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-36A	0.005	0.0035	0.1	No	21	0.004356	0.001447	80.95	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-38	0.005	0.00065	0.1	No	21	0.004579	0.001331	90.48	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-41	0.005	0.00039	0.1	No	21	0.00478	0.001006	95.24	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-42	0.005	0.0013	0.1	No	21	0.004397	0.001521	85.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-43	0.005	0.00074	0.1	No	21	0.00417	0.001754	80.95	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-49	0.002	0.0016	0.1	No	19	0.001968	0.0007732	5.263	None	No	0.01	NP (normality)
Cobalt (mg/L)	PZ-35	0.0059	0.005	0.035	No	13	0.005069	0.0002496	92.31	None	No	0.01	NP (NDs)
Cobalt (mg/L)	PZ-37	0.008469	0.003331	0.035	No	18	0.006556	0.004861	0	None	x^(1/3)	0.01	Param.
Cobalt (mg/L)	PZ-51	0.033	0.0048	0.035	No	6	0.01227	0.01132	0	None	No	0.0155	NP (normality)
Cobalt (mg/L)	PZ-52D	0.003352	0.001214	0.035	No	6	0.002283	0.0007782	0	None	No	0.01	Param.
Cobalt (mg/L)	YAMW-1	0.01703	0.003957	0.035	No	14	0.01146	0.01044	14.29	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	YAMW-2	0.003901	0.0006296	0.035	No	10	0.002311	0.002153	10	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	YAMW-3	0.1561	0.01389	0.035	No	6	0.085	0.05176	0	None	No	0.01	Param.
Cobalt (mg/L)	YAMW-4	0.005	0.00044	0.035	No	10	0.001933	0.002124	30	None	No	0.011	NP (normality)
Cobalt (mg/L)	YAMW-5	0.005	0.005	0.035	No	10	0.004577	0.001338	90	None	No	0.011	NP (NDs)
Cobalt (mg/L)	YGWC-36A	0.005	0.00086	0.035	No	25	0.004108	0.001823	80	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-41	0.005	0.0011	0.035	No	21	0.004161	0.001778	80.95	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-42	0.002133	0.001686	0.035	No	21	0.00191	0.0004049	4.762	None	No	0.01	Param.
Cobalt (mg/L)	YGWC-43	0.005	0.0005	0.035	No	21	0.00254	0.001946	33.33	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-49	0.005	0.0008	0.035	No	20	0.004125	0.001796	80	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	PZ-35	0.9036	0.4111	6.92	No	12	0.6573	0.3138	0	None	No	0.01	Param.

Confidence Interval Summary Table - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 11/8/2024, 2:41 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	PZ-37	1.801	1.101	6.92	No	18	1.451	0.5782	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-37D	3.264	1.286	6.92	No	7	2.275	0.8329	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	PZ-51	0.966	0.389	6.92	No	6	0.7673	0.2654	0	None	No	0.0155	NP (selected)
Combined Radium 226 + 228 (pCi/L)	PZ-52D	1.637	0.1494	6.92	No	7	0.893	0.626	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YAMW-1	0.6404	0.3668	6.92	No	12	0.5036	0.1744	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YAMW-2	0.7371	0.1768	6.92	No	10	0.457	0.314	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YAMW-3	2.628	0.673	6.92	No	6	1.561	0.7594	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YAMW-4	0.8689	0.2156	6.92	No	10	0.5422	0.3661	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YAMW-5	1.144	0.6107	6.92	No	10	0.8775	0.299	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-23S	0.7441	0.3847	6.92	No	25	0.5644	0.3605	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-24SB	0.7323	0.4451	6.92	No	24	0.5887	0.2814	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-36A	0.9392	0.5082	6.92	No	25	0.7237	0.4323	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-38	1.069	0.5328	6.92	No	21	0.801	0.4861	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-41	1.213	0.6286	6.92	No	21	0.9208	0.5298	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-42	2.295	0.9906	6.92	No	21	1.643	1.182	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-43	4.026	2.089	6.92	No	21	3.058	1.755	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-49	1.007	0.548	6.92	No	20	0.7776	0.4044	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-37	0.23	0.1	4	No	18	0.1472	0.09969	77.78	None	No	0.01	NP (NDs)
Fluoride (mg/L)	PZ-37D	0.3007	0.1451	4	No	7	0.2229	0.0655	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-51	0.165	0.09066	4	No	6	0.1278	0.02706	0	None	No	0.01	Param.
Fluoride (mg/L)	PZ-52D	0.1075	0.04669	4	No	6	0.082	0.02427	16.67	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	YAMW-2	0.1	0.061	4	No	10	0.0874	0.02055	70	None	No	0.011	NP (NDs)
Fluoride (mg/L)	YAMW-3	0.08958	0.06722	4	No	6	0.082	0.012	16.67	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	YAMW-4	0.09815	0.0599	4	No	10	0.0969	0.02665	40	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	YAMW-5	0.1	0.05	4	No	10	0.0855	0.02339	70	Kaplan-Meier	No	0.011	NP (NDs)
Fluoride (mg/L)	YGWC-23S	0.1	0.057	4	No	26	0.09446	0.01892	84.62	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-24SB	0.1	0.098	4	No	25	0.09528	0.01625	88	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-36A	0.1	0.094	4	No	26	0.09446	0.02819	73.08	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-38	0.2	0.1	4	No	22	0.142	0.1005	72.73	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-41	0.11	0.1	4	No	22	0.1005	0.002132	90.91	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-42	0.1	0.08	4	No	22	0.08745	0.02343	72.73	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-43	0.09935	0.0592	4	No	22	0.09882	0.04742	18.18	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	YGWC-49	0.14	0.09	4	No	21	0.09952	0.02179	71.43	Kaplan-Meier	No	0.01	NP (NDs)
Lead (mg/L)	PZ-35	0.0014	0.00015	0.015	No	12	0.0008864	0.0003767	75	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-37	0.001	0.0002	0.015	No	18	0.0007152	0.0004158	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	PZ-51	0.001	0.00019	0.015	No	6	0.000865	0.0003307	83.33	Kaplan-Meier	No	0.0155	NP (NDs)
Lead (mg/L)	PZ-52D	0.0031	0.001	0.015	No	6	0.001417	0.00084	66.67	Kaplan-Meier	No	0.0155	NP (NDs)
Lead (mg/L)	YAMW-1	0.001	0.00019	0.015	No	12	0.0009325	0.0002338	91.67	None	No	0.01	NP (NDs)
Lead (mg/L)	YAMW-2	0.001	0.00011	0.015	No	10	0.000819	0.0003816	80	None	No	0.011	NP (NDs)
Lead (mg/L)	YAMW-4	0.001	0.00028	0.015	No	10	0.0007916	0.0003516	70	None	No	0.011	NP (NDs)
Lead (mg/L)	YAMW-5	0.001	0.000073	0.015	No	10	0.0007224	0.0004473	70	None	No	0.011	NP (NDs)
Lead (mg/L)	YGWC-23S	0.001	0.00044	0.015	No	23	0.000862	0.0003138	82.61	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-24SB	0.001	0.00036	0.015	No	22	0.0008956	0.0002735	86.36	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-36A	0.0004375	0.0001776	0.015	No	23	0.0006491	0.0004229	39.13	Kaplan-Meier	sqrt(x)	0.01	Param.
Lead (mg/L)	YGWC-38	0.001	0.0001	0.015	No	21	0.0008714	0.0003227	85.71	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-41	0.0011	0.0002	0.015	No	21	0.000836	0.0003602	76.19	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-42	0.001	0.0002	0.015	No	21	0.0008281	0.0003641	80.95	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-43	0.001	0.00008	0.015	No	21	0.0009121	0.0002775	90.48	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-49	0.001	0.000059	0.015	No	20	0.000953	0.0002104	95	None	No	0.01	NP (NDs)
Lithium (mg/L)	PZ-35	0.011	0.0011	0.04	No	13	0.003731	0.004251	7.692	None	No	0.01	NP (normality)
Lithium (mg/L)	PZ-37	0.02719	0.01964	0.04	No	18	0.02287	0.006465	5.556	None	x^2	0.01	Param.
Lithium (mg/L)	PZ-37D	0.01171	0.005485	0.04	No	7	0.0086	0.002622	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-51	0.005819	0.004414	0.04	No	6	0.005117	0.0005115	0	None	No	0.01	Param.
Lithium (mg/L)	PZ-52D	0.03192	0.01741	0.04	No	6	0.02467	0.005279	0	None	No	0.01	Param.
Lithium (mg/L)	YAMW-1	0.01928	0.01015	0.04	No	13	0.01472	0.006139	7.692	None	No	0.01	Param.

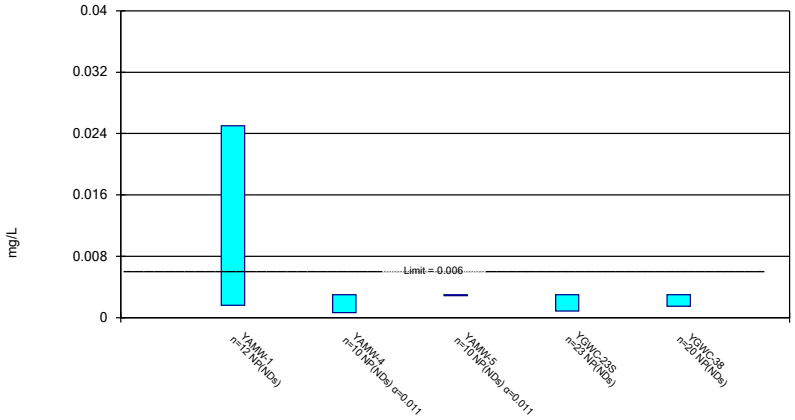
Confidence Interval Summary Table - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 11/8/2024, 2:41 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	YAMW-3	0.05164	0.03979	0.04	No	7	0.04571	0.00499	0	None	No	0.01	Param.
Lithium (mg/L)	YAMW-4	0.03548	0.02662	0.04	No	10	0.0306	0.006398	0	None	x^3	0.01	Param.
Lithium (mg/L)	YAMW-5	0.01536	0.01344	0.04	No	10	0.0144	0.001075	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-23S	0.0026	0.0019	0.04	No	25	0.002872	0.002583	4	None	No	0.01	NP (normality)
Lithium (mg/L)	YGWC-36A	0.002	0.00089	0.04	No	10	0.002628	0.004363	10	None	No	0.011	NP (normality)
Lithium (mg/L)	YGWC-38	0.008313	0.006783	0.04	No	21	0.007548	0.001387	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-41	0.0042	0.0021	0.04	No	21	0.003595	0.002776	4.762	None	No	0.01	NP (normality)
Lithium (mg/L)	**YGWC-42**	**0.05633**	**0.04817**	**0.04**	**Yes**	**8**	**0.05225**	**0.003845**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	YGWC-43	0.01744	0.01251	0.04	No	21	0.01498	0.004472	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-49	0.003734	0.003326	0.04	No	20	0.00353	0.00036	0	None	No	0.01	Param.
Mercury (mg/L)	PZ-37	0.0002	0.00019	0.002	No	18	0.0001917	0.00003294	88.89	None	No	0.01	NP (NDs)
Mercury (mg/L)	YAMW-1	0.0002	0.0002	0.002	No	10	0.000194	0.00001897	90	None	No	0.011	NP (NDs)
Mercury (mg/L)	YAMW-3	0.0002	0.00016	0.002	No	6	0.0001933	0.00001633	83.33	None	No	0.0155	NP (NDs)
Mercury (mg/L)	YGWC-23S	0.0002	0.00015	0.002	No	20	0.0001924	0.00002487	90	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-38	0.0002	0.00008	0.002	No	18	0.0001843	0.00004635	88.89	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-41	0.0002	0.00006	0.002	No	18	0.0001922	0.000033	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-42	0.0002	0.000048	0.002	No	18	0.0001916	0.00003583	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-43	0.0002	0.00009	0.002	No	18	0.0001857	0.00004222	88.89	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-49	0.0002	0.00014	0.002	No	17	0.0001883	0.00003587	88.24	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-35	0.01	0.01	0.1	No	11	0.009264	0.002442	90.91	None	No	0.006	NP (NDs)
Molybdenum (mg/L)	PZ-37	0.01	0.0016	0.1	No	18	0.006339	0.004221	55.56	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	PZ-37D	0.00676	0.001754	0.1	No	7	0.004257	0.002107	0	None	No	0.01	Param.
Molybdenum (mg/L)	PZ-52D	0.01031	0.0003593	0.1	No	6	0.005333	0.003621	0	None	No	0.01	Param.
Molybdenum (mg/L)	YAMW-1	0.01	0.0014	0.1	No	11	0.006545	0.004057	54.55	None	No	0.006	NP (NDs)
Molybdenum (mg/L)	YAMW-2	0.01	0.01	0.1	No	10	0.00917	0.002625	90	None	No	0.011	NP (NDs)
Molybdenum (mg/L)	YAMW-3	0.007998	0.003069	0.1	No	6	0.005533	0.001794	0	None	No	0.01	Param.
Molybdenum (mg/L)	YAMW-4	0.007782	0.0065	0.1	No	10	0.00711	0.0008685	0	None	x^3	0.01	Param.
Molybdenum (mg/L)	YGWC-23S	0.01	0.0016	0.1	No	21	0.0096	0.001833	95.24	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-36A	0.01	0.0038	0.1	No	21	0.008048	0.003336	71.43	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-41	0.01	0.0019	0.1	No	21	0.009614	0.001768	95.24	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-42	0.01	0.0008	0.1	No	21	0.003767	0.004089	28.57	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-43	0.01	0.0013	0.1	No	21	0.004548	0.004089	33.33	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-49	0.01	0.0007	0.1	No	19	0.009511	0.002134	94.74	None	No	0.01	NP (NDs)
Selenium (mg/L)	PZ-35	0.005	0.003	0.05	No	13	0.004092	0.001059	46.15	None	No	0.01	NP (normality)
Selenium (mg/L)	**PZ-37**	**0.2637**	**0.1832**	**0.05**	**Yes**	**18**	**0.2234**	**0.06648**	**0**	**None**	**No**	**0.01**	**Param.**
Selenium (mg/L)	PZ-51	0.02916	0.02184	0.05	No	6	0.0255	0.002665	0	None	No	0.01	Param.
Selenium (mg/L)	PZ-52D	0.0121	0.002304	0.05	No	6	0.0072	0.003564	0	None	No	0.01	Param.
Selenium (mg/L)	YAMW-1	0.005178	0.002822	0.05	No	13	0.004638	0.001458	38.46	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	YAMW-2	0.005	0.005	0.05	No	11	0.004655	0.001146	90.91	Kaplan-Meier	No	0.006	NP (NDs)
Selenium (mg/L)	YAMW-3	0.028	0.005	0.05	No	7	0.01121	0.009907	57.14	Kaplan-Meier	No	0.008	NP (NDs)
Selenium (mg/L)	YAMW-4	0.01805	0.005341	0.05	No	11	0.01398	0.006934	18.18	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	YAMW-5	0.05851	0.04496	0.05	No	11	0.05136	0.009615	0	None	x^2	0.01	Param.
Selenium (mg/L)	YGWC-23S	0.03777	0.02868	0.05	No	25	0.03323	0.009119	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-36A	0.005	0.0024	0.05	No	25	0.003604	0.0014	36	None	No	0.01	NP (normality)
Selenium (mg/L)	YGWC-38	0.06746	0.04679	0.05	No	8	0.05713	0.009746	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-41	0.05543	0.03436	0.05	No	21	0.0449	0.0191	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-42	0.05155	0.03808	0.05	No	21	0.04481	0.01221	0	None	No	0.01	Param.
Selenium (mg/L)	YGWC-49	0.008104	0.006386	0.05	No	20	0.007245	0.001513	5	None	No	0.01	Param.
Thallium (mg/L)	YGWC-49	0.001	0.00009	0.002	No	18	0.0009494	0.0002145	94.44	None	No	0.01	NP (NDs)

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Antimony Analysis Run 11/8/2024 2:39 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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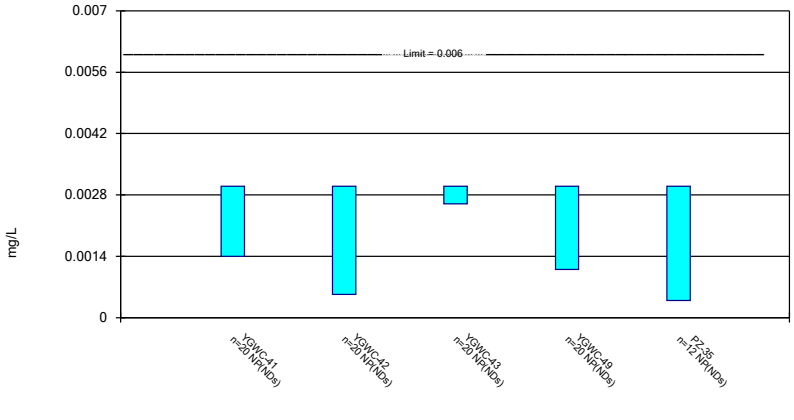
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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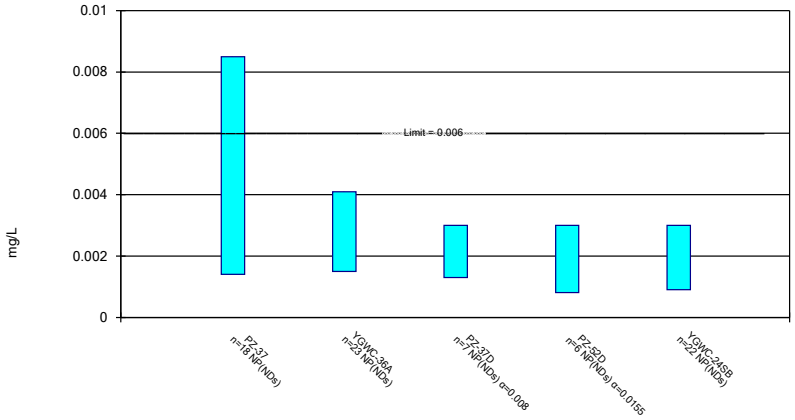
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Antimony Analysis Run 11/8/2024 2:39 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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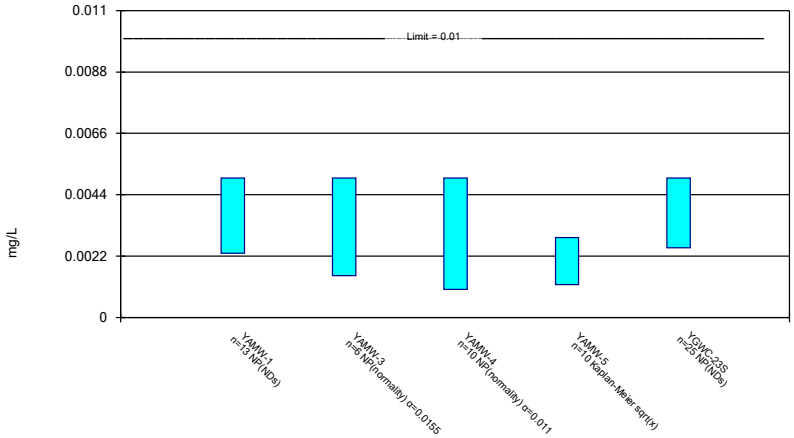
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 11/8/2024 2:39 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

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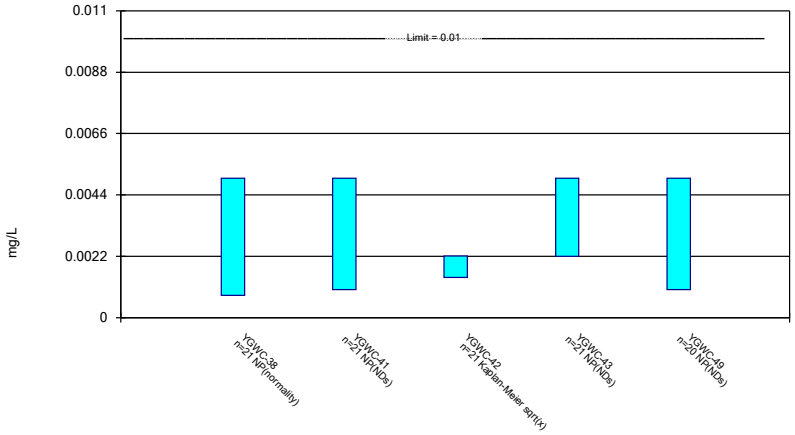

Constituent: Arsenic Analysis Run 11/8/2024 2:39 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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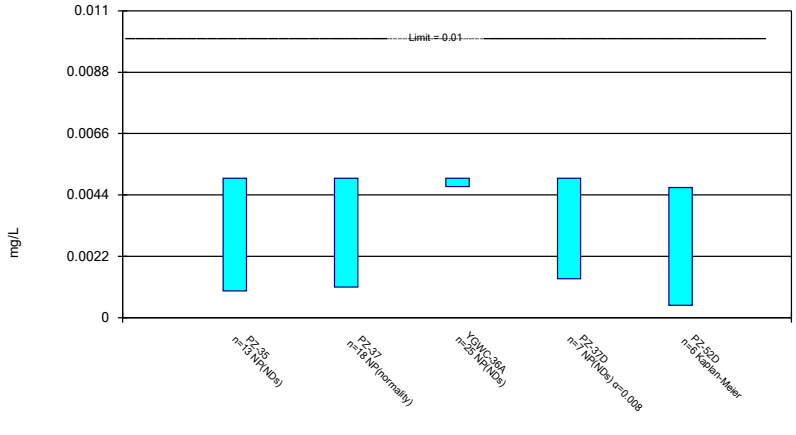
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 11/8/2024 2:39 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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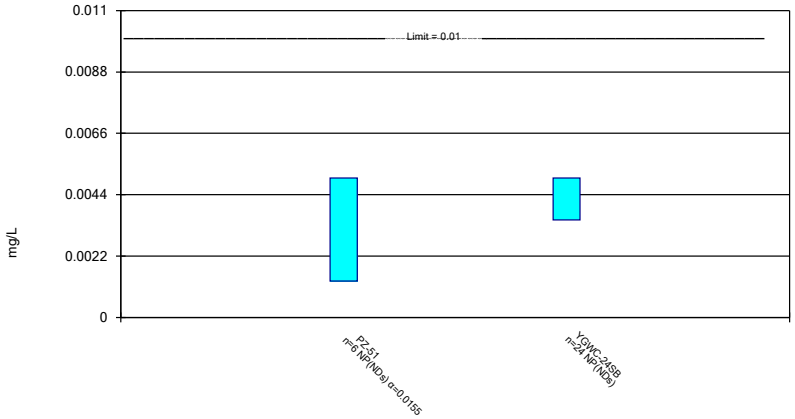
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Arsenic Analysis Run 11/8/2024 2:39 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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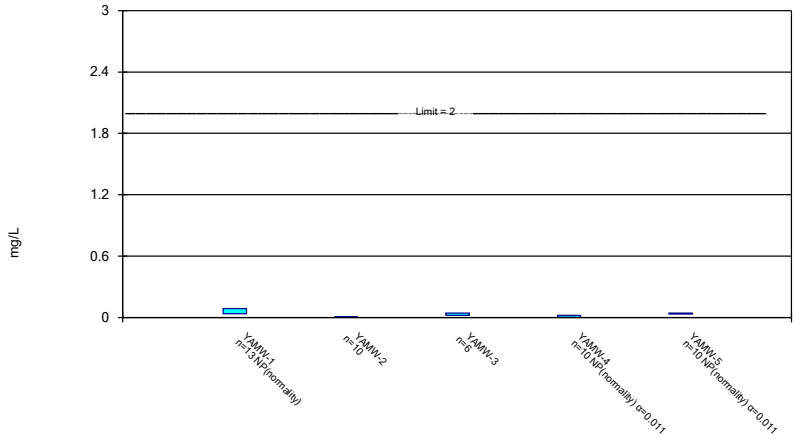
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 11/8/2024 2:39 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric Confidence Interval

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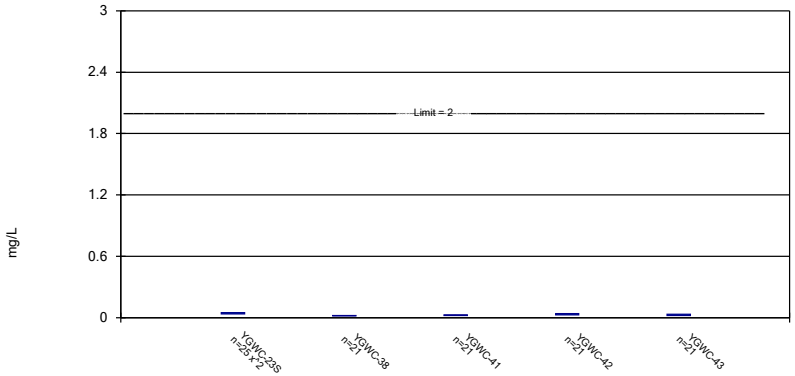

Constituent: Barium Analysis Run 11/8/2024 2:39 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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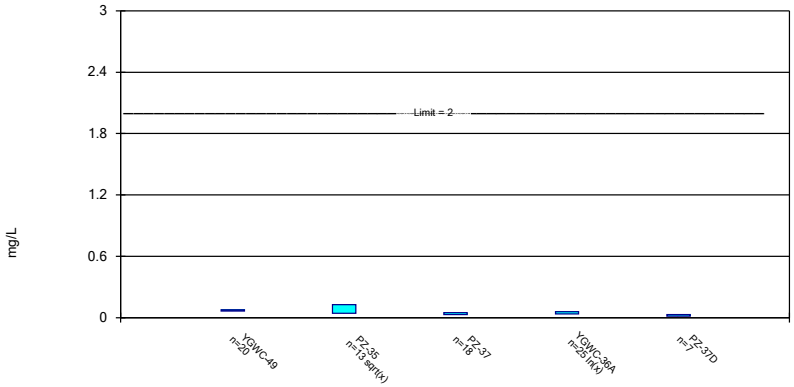
Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 11/8/2024 2:39 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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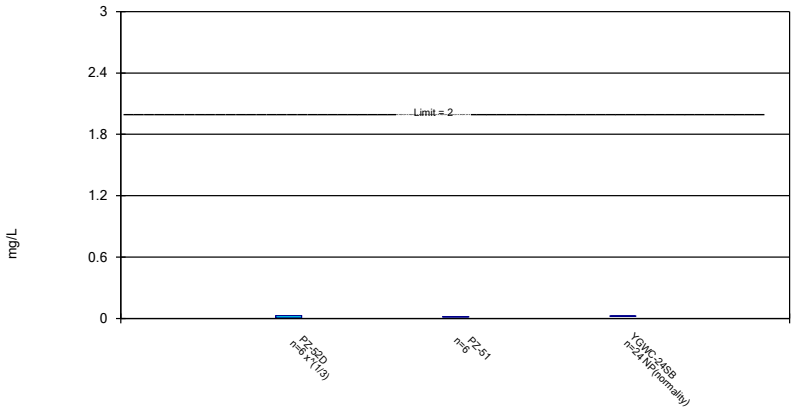
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 11/8/2024 2:39 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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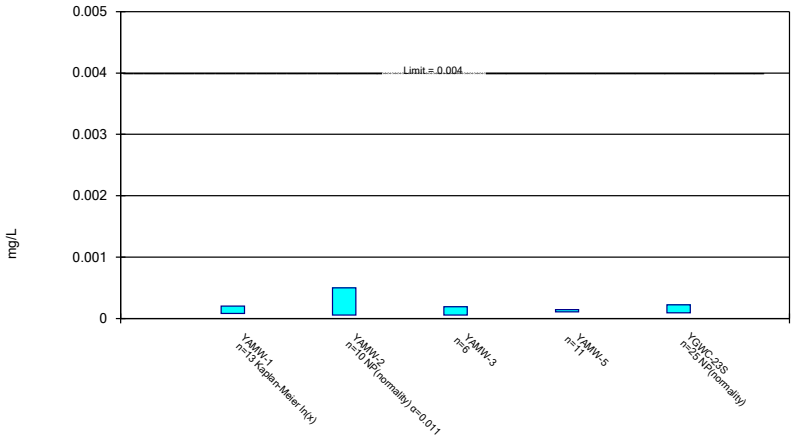
Parametric and Non-Parametric (NP) Confidence Interval

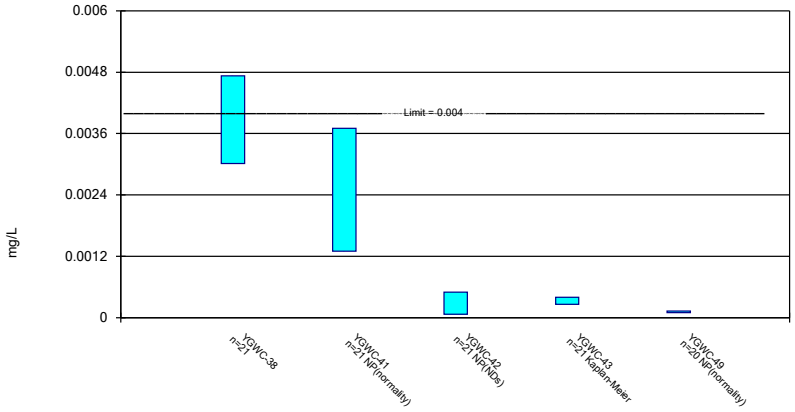
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 11/8/2024 2:39 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 11/8/2024 2:39 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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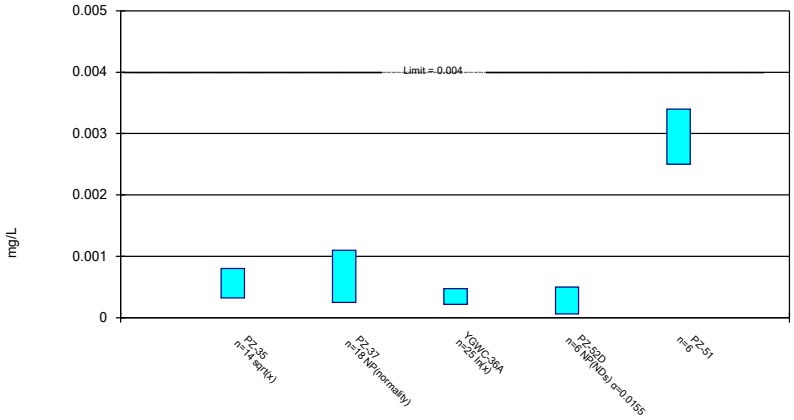
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 11/8/2024 2:39 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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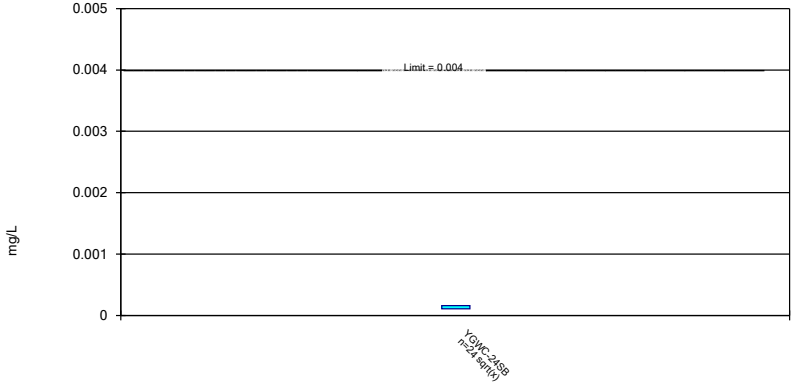
Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 11/8/2024 2:39 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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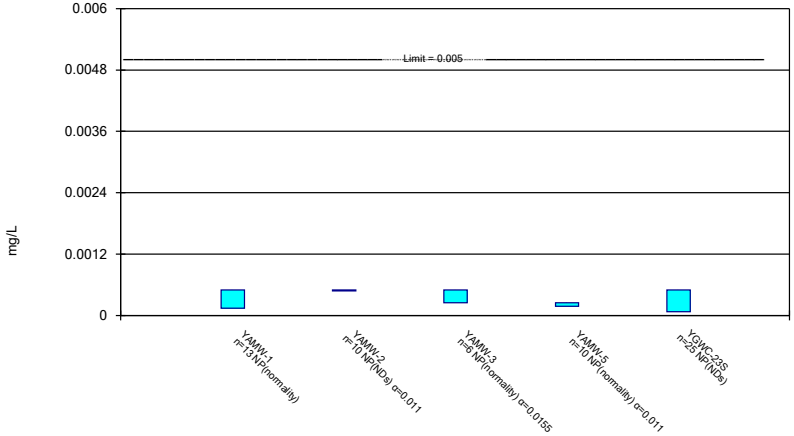
Non-Parametric Confidence Interval

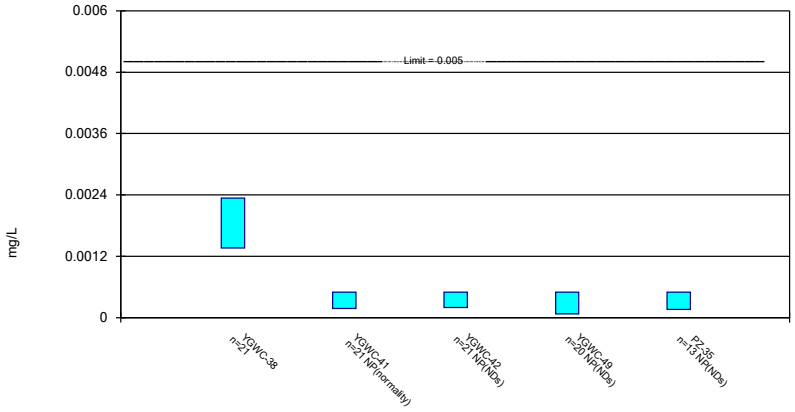
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Cadmium Analysis Run 11/8/2024 2:39 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 11/8/2024 2:39 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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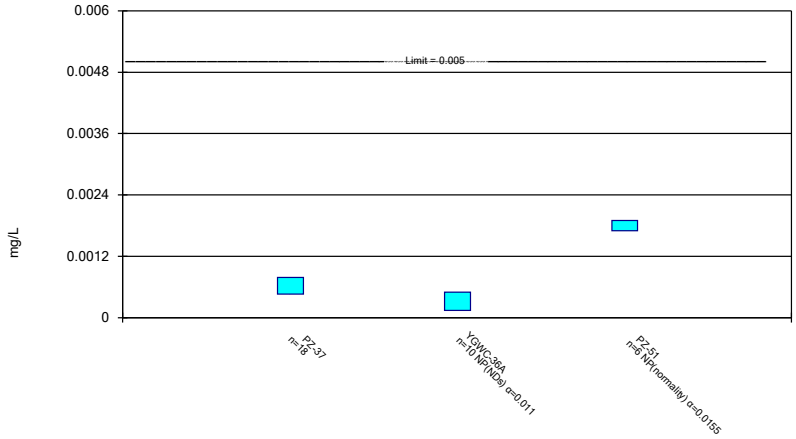
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 11/8/2024 2:39 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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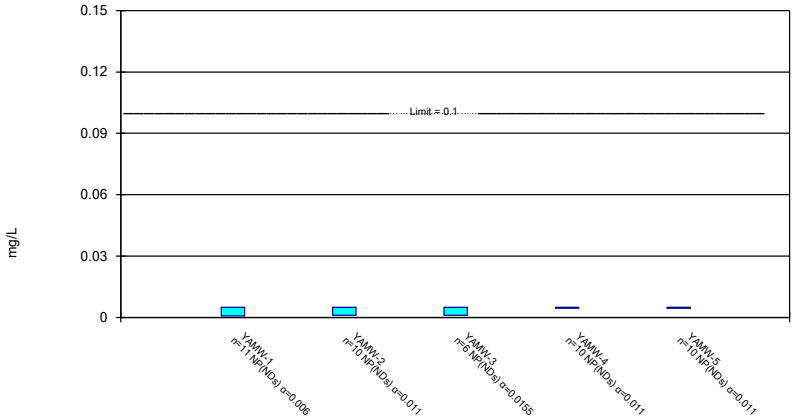
Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Chromium Analysis Run 11/8/2024 2:39 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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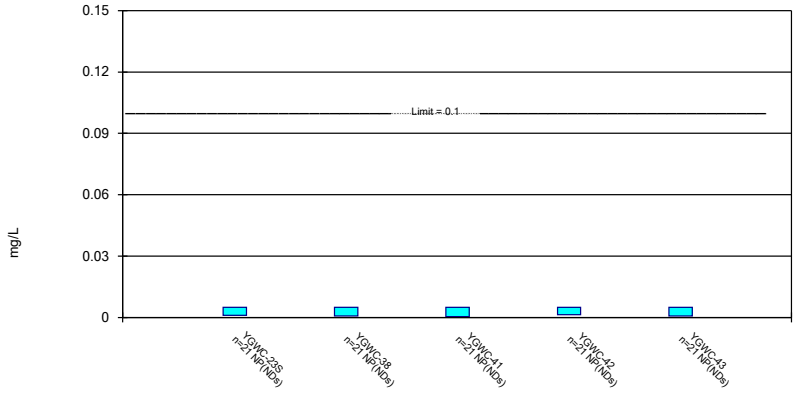
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

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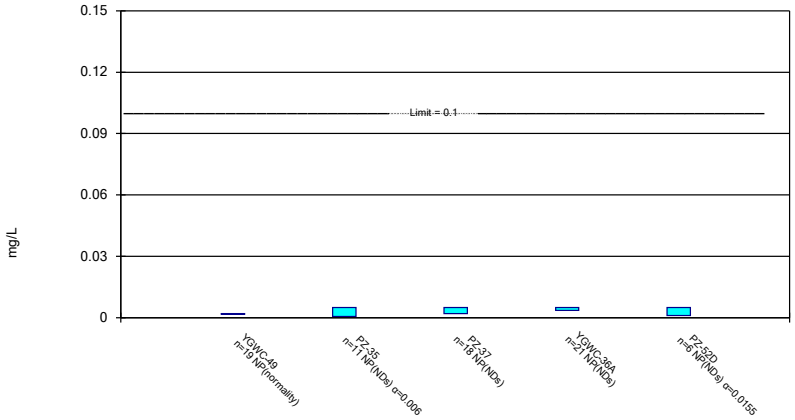

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Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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Non-Parametric Confidence Interval

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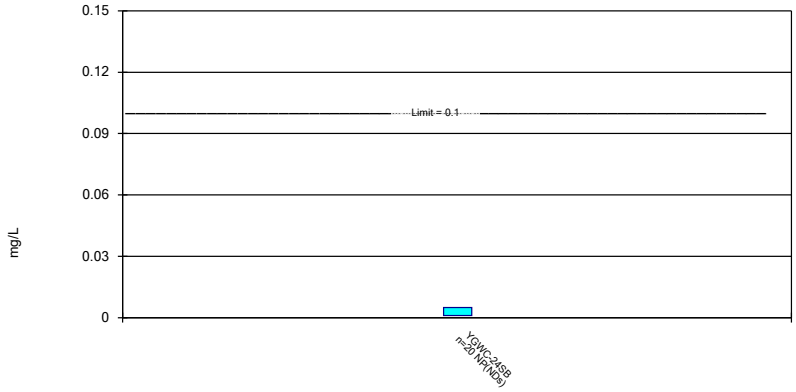

Constituent: Chromium Analysis Run 11/8/2024 2:39 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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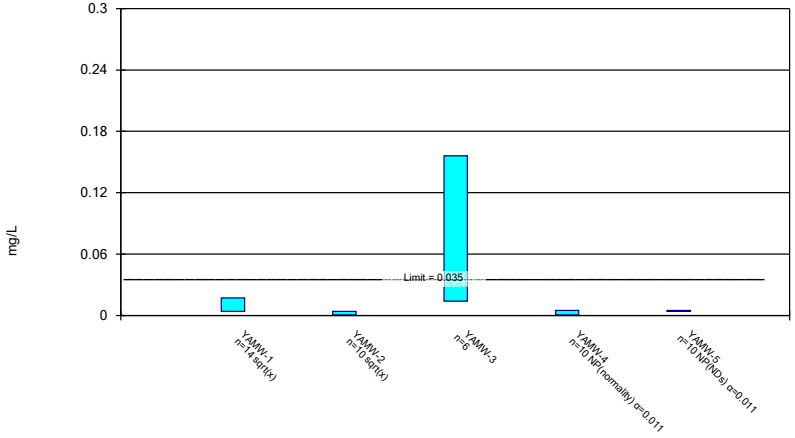
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

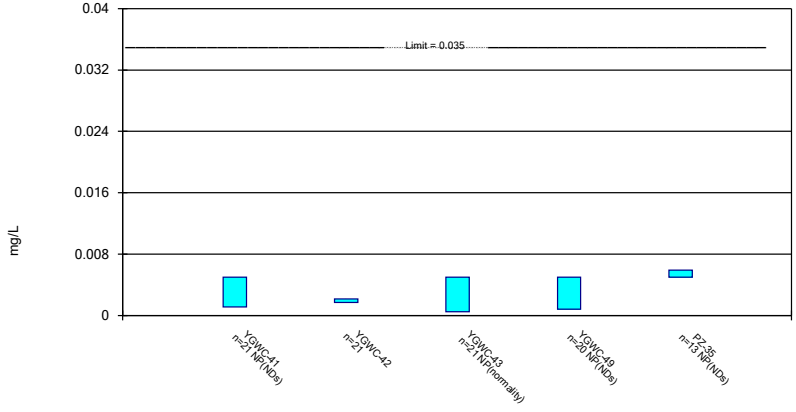


Constituent: Cobalt Analysis Run 11/8/2024 2:39 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

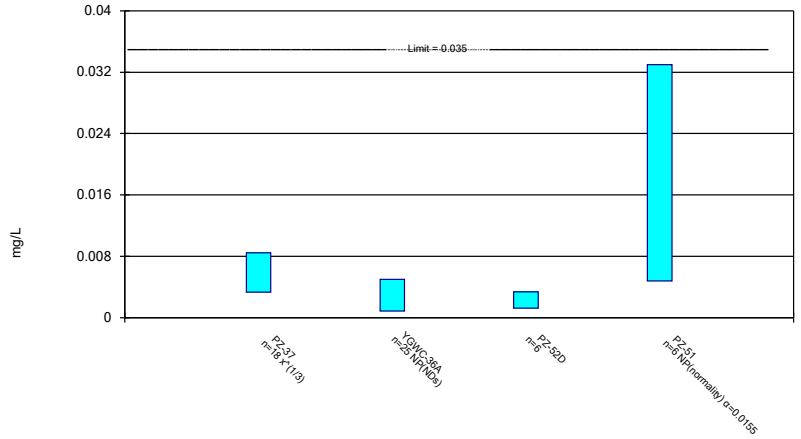
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 11/8/2024 2:39 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

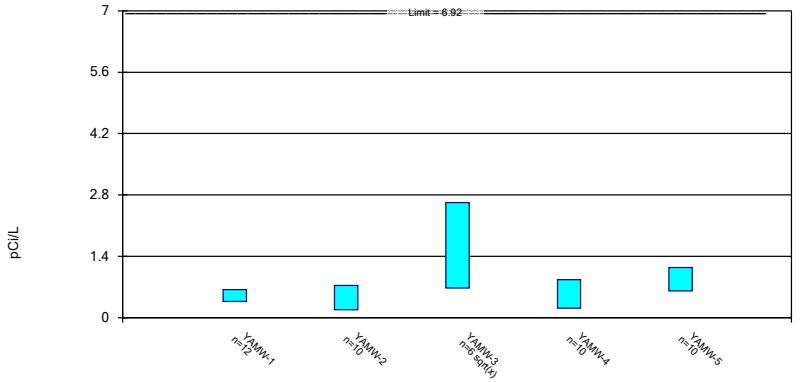
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 11/8/2024 2:39 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric Confidence Interval

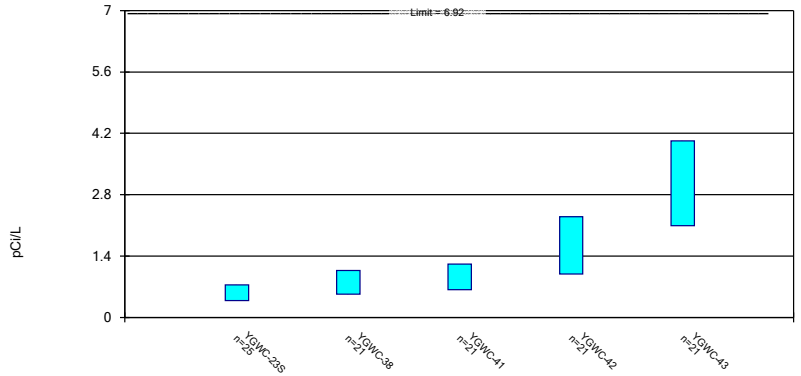
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 11/8/2024 2:39 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric Confidence Interval

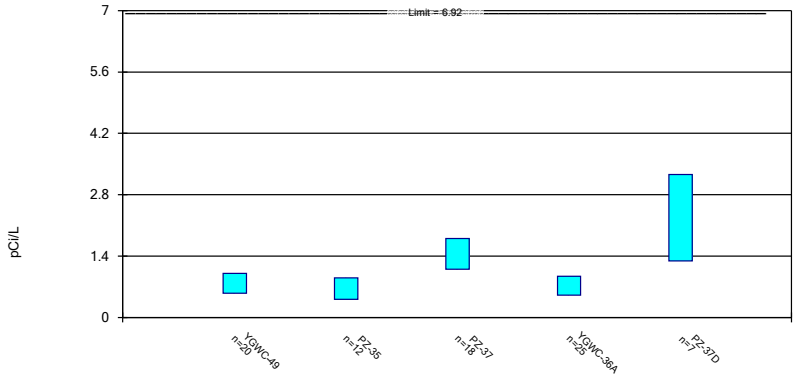
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 11/8/2024 2:39 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric Confidence Interval

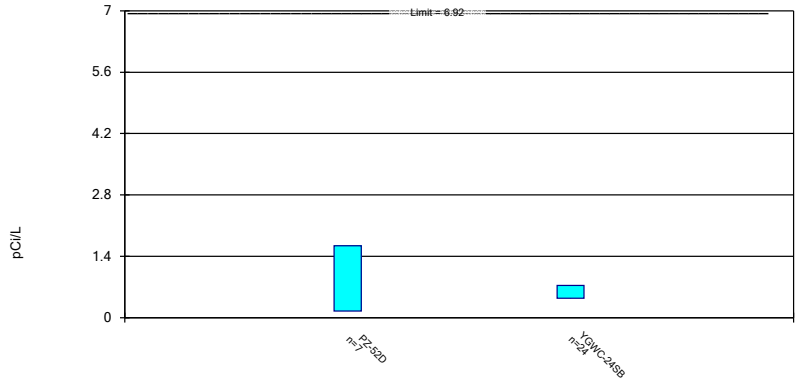
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 11/8/2024 2:39 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric Confidence Interval

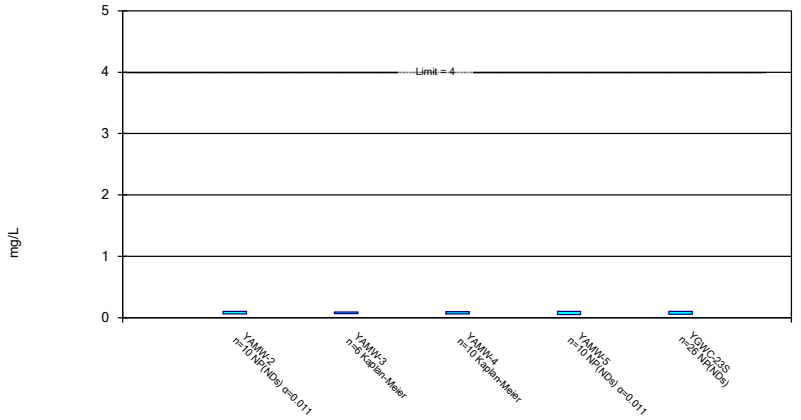
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 11/8/2024 2:39 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

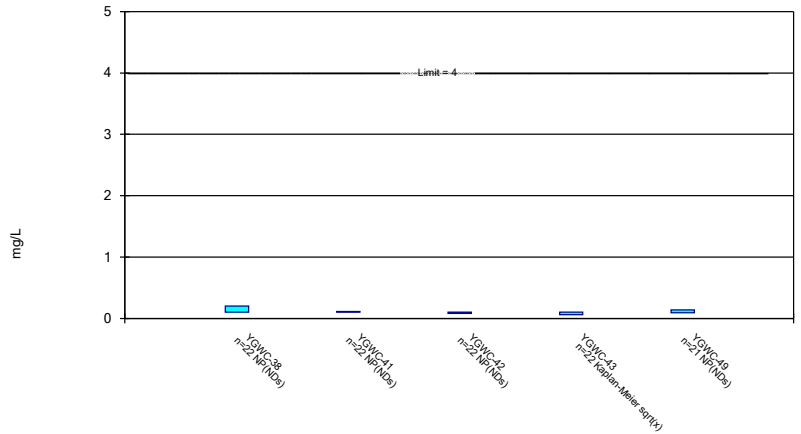
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 11/8/2024 2:39 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

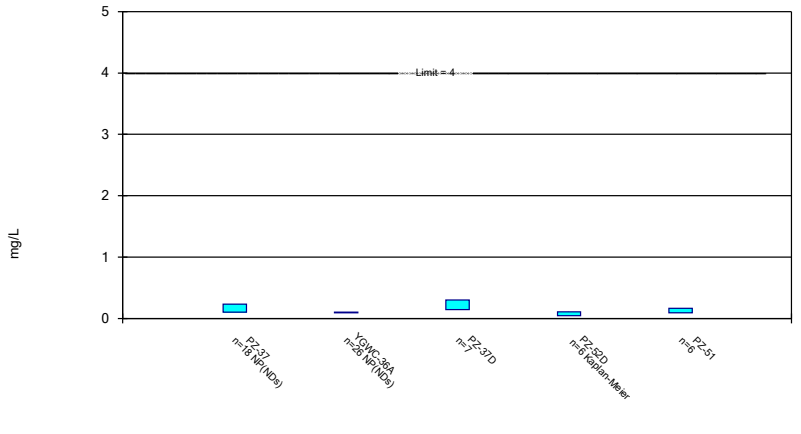
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 11/8/2024 2:39 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

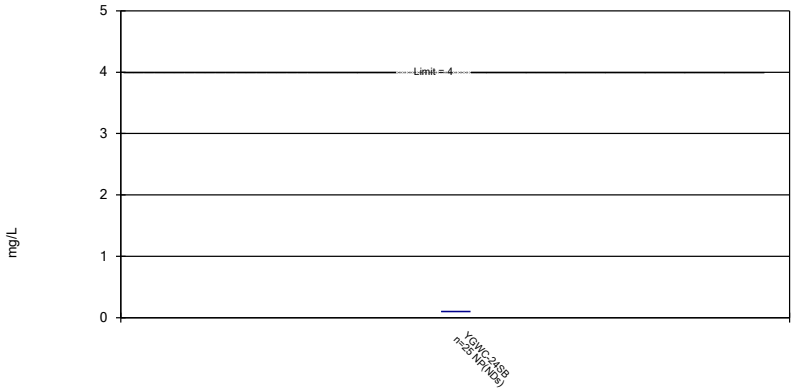
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 11/8/2024 2:39 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

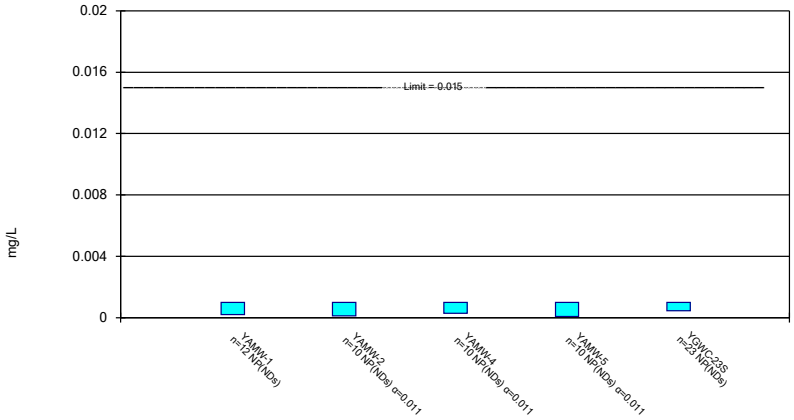
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Fluoride Analysis Run 11/8/2024 2:39 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

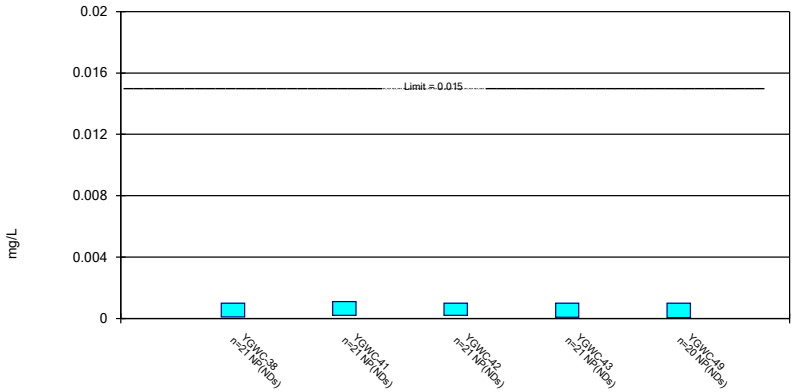
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Lead Analysis Run 11/8/2024 2:39 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

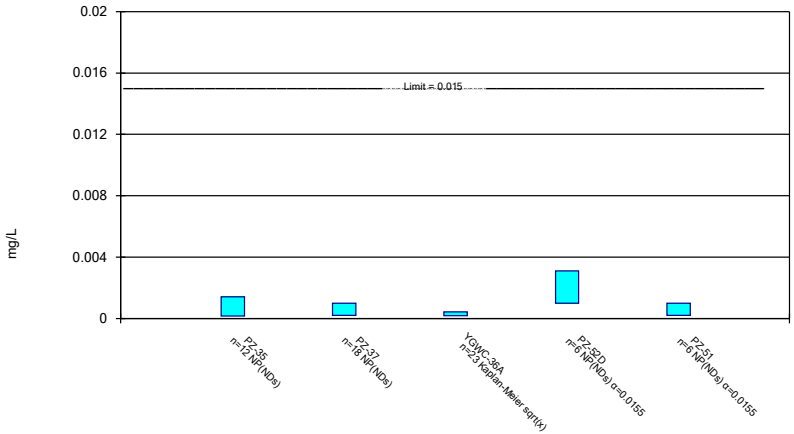
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 11/8/2024 2:39 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

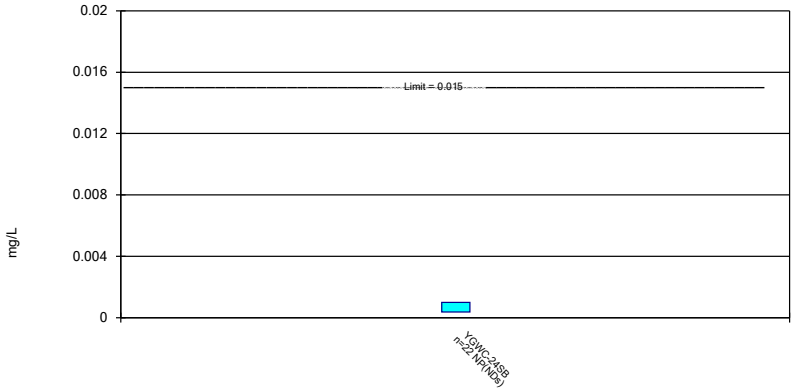
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 11/8/2024 2:39 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

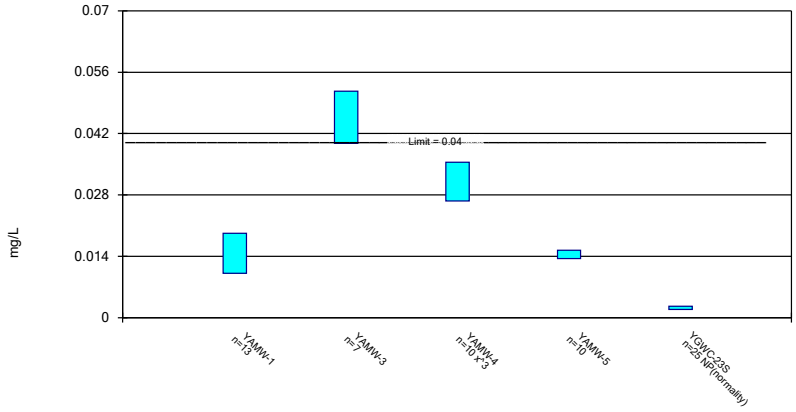
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 11/8/2024 2:39 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

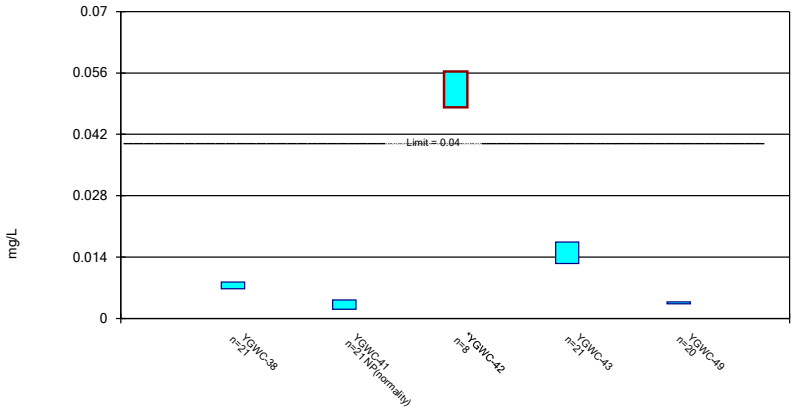
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 11/8/2024 2:39 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

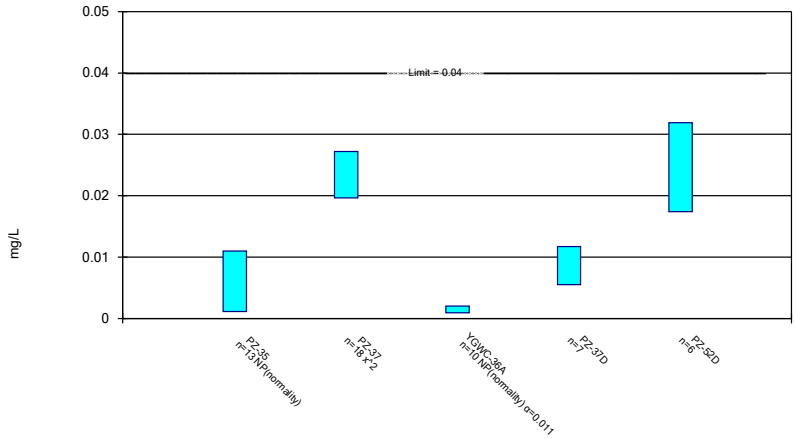
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 11/8/2024 2:39 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

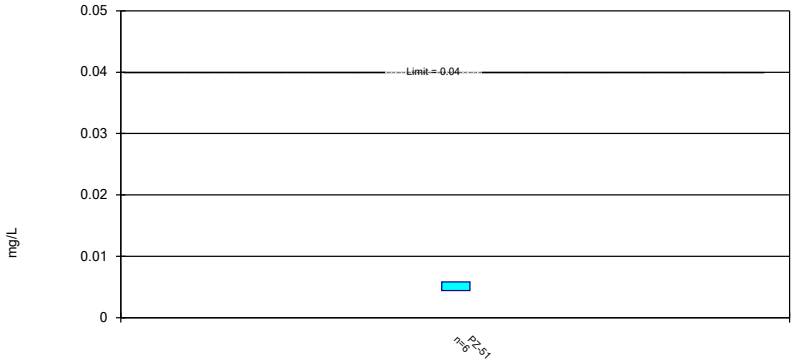
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 11/8/2024 2:39 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric Confidence Interval

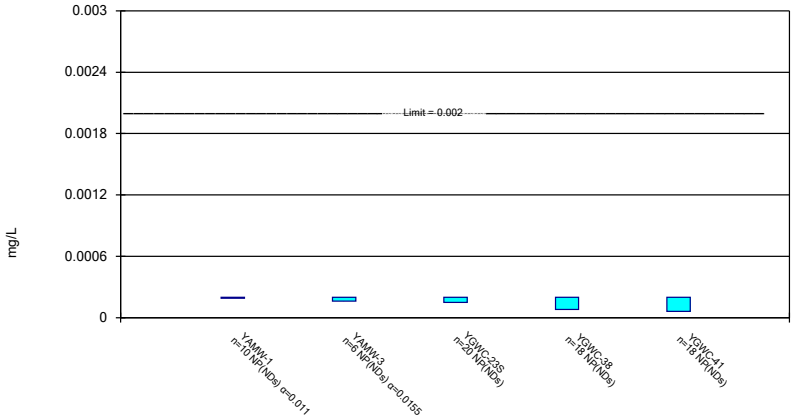
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 11/8/2024 2:40 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

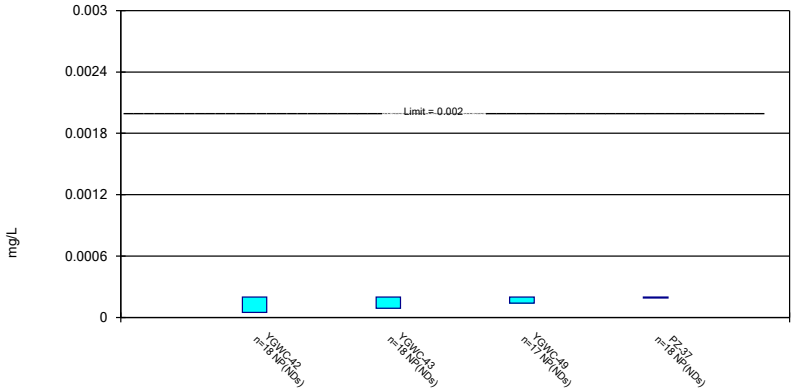
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Mercury Analysis Run 11/8/2024 2:40 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

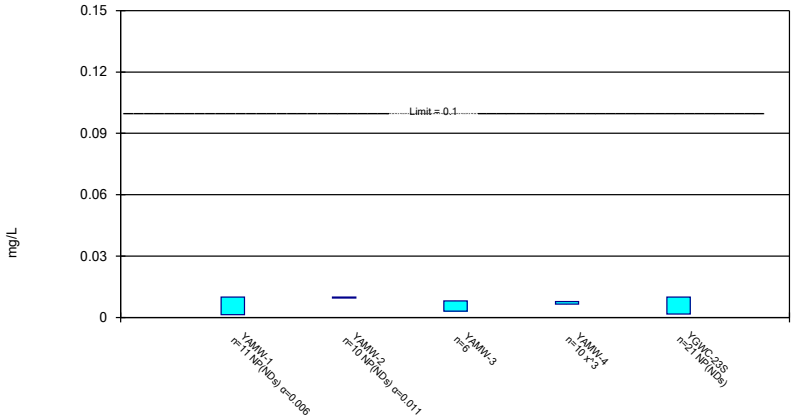
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 11/8/2024 2:40 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

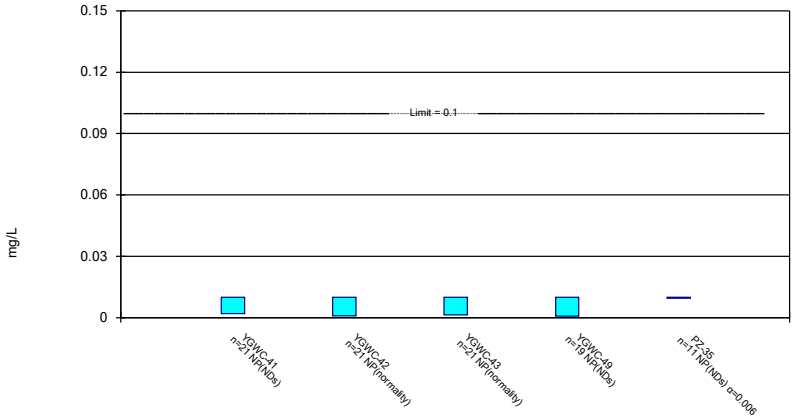
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 11/8/2024 2:40 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Molybdenum Analysis Run 11/8/2024 2:40 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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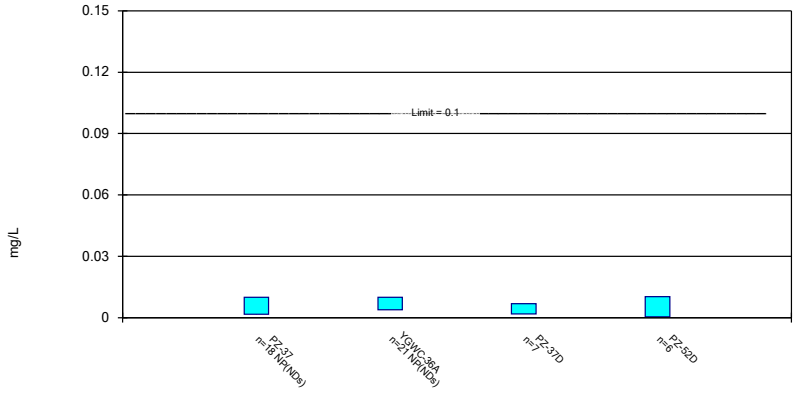
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

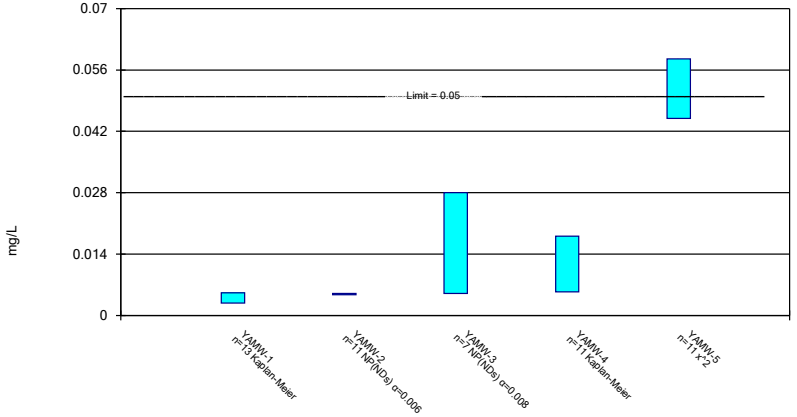


Constituent: Molybdenum Analysis Run 11/8/2024 2:40 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

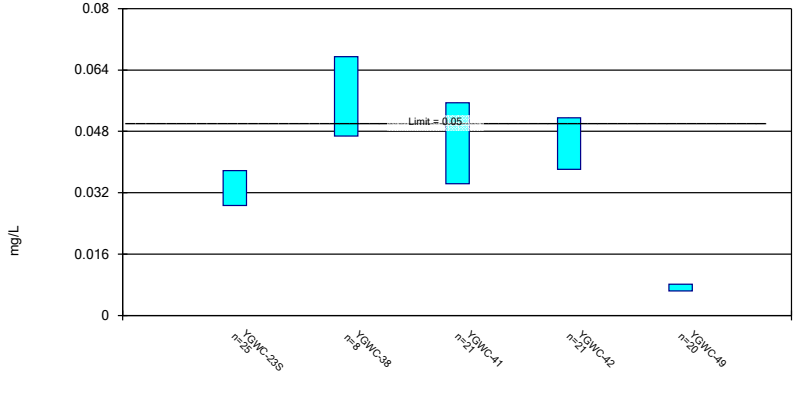


Constituent: Selenium Analysis Run 11/8/2024 2:40 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Parametric Confidence Interval

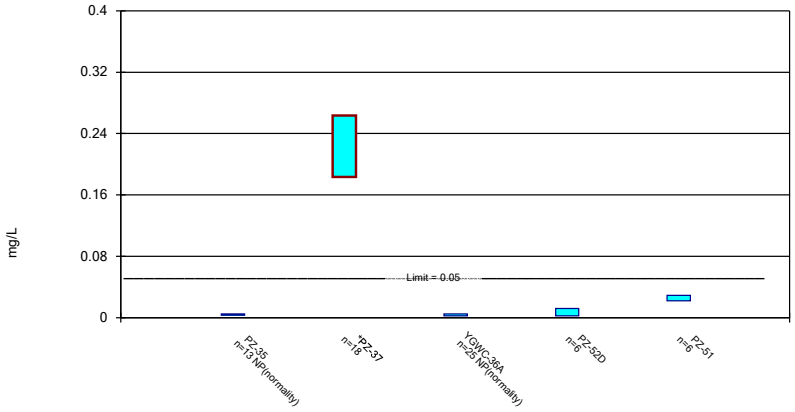
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 11/8/2024 2:40 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

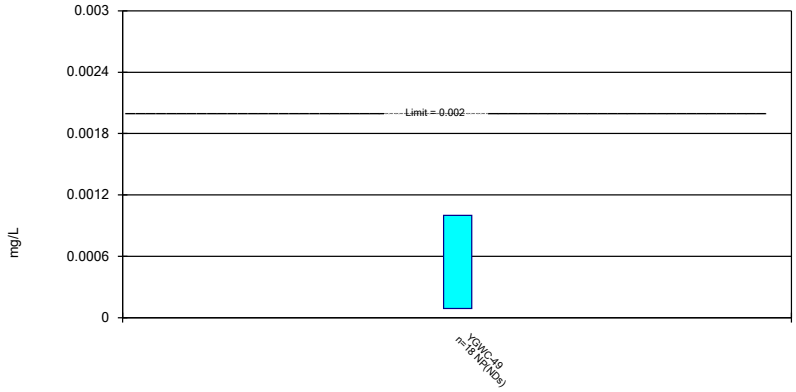


Constituent: Selenium Analysis Run 11/8/2024 2:40 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

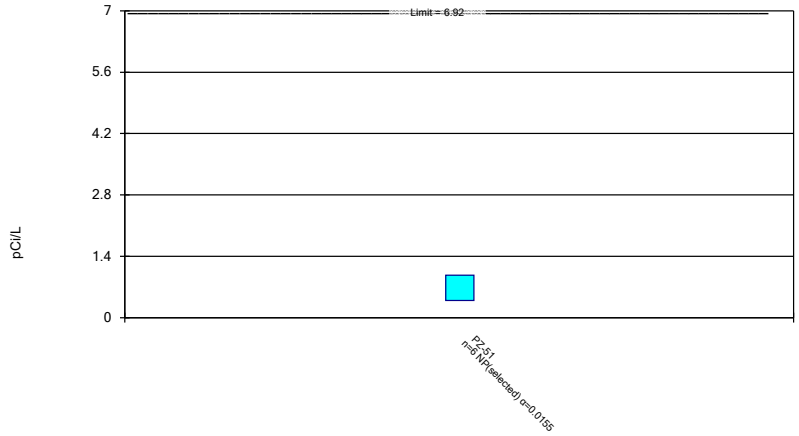
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 11/8/2024 2:40 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Normality testing disabled.

Constituent: Combined Radium 226 + 228 Analysis Run 11/8/2024 2:40 PM View: Appendix IV Nonparam

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 11/8/2024 2:41 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-4	YAMW-5	YGWC-23S	YGWC-38
6/7/2016				<0.003	
7/28/2016				<0.003	
9/20/2016				<0.003	
11/8/2016				<0.003	
1/16/2017				<0.003	
3/9/2017				<0.003	
5/2/2017				<0.003	
7/10/2017				<0.003	
10/12/2017					<0.003
11/20/2017					<0.003
1/12/2018					<0.003
2/20/2018					<0.003
3/30/2018				<0.003	
4/3/2018					<0.003
6/28/2018					<0.003
8/7/2018					0.0015 (J)
9/24/2018					<0.003
3/6/2019				<0.003	
4/4/2019				<0.003	
8/22/2019					<0.003
9/26/2019	<0.003				
9/27/2019				0.00029 (J)	
3/25/2020	<0.003				0.00063 (J)
3/26/2020				<0.003	
9/23/2020		0.00065 (J)			
9/24/2020	<0.003		0.00033 (J)	0.00085 (J)	
9/25/2020					0.00061 (J)
2/9/2021	0.00037 (J)	0.0011 (J)	<0.003	0.00052 (J)	0.00031 (J)
3/3/2021	0.025	0.00062 (J)			
3/4/2021			<0.003	<0.003	<0.003
8/25/2021		<0.003		<0.003	
8/26/2021			<0.003		<0.003
9/1/2021	0.0024 (J)				
2/10/2022	<0.003	<0.003	<0.003	<0.003	<0.003
8/31/2022	0.0016 (J)				
9/1/2022		<0.003	<0.003	<0.003	<0.003
2/8/2023		<0.003	<0.003	<0.003	<0.003
2/9/2023	<0.003				
8/16/2023	<0.003	<0.003	<0.003	<0.003	<0.003
2/21/2024				<0.003	
2/22/2024		<0.003	<0.003		<0.003
2/23/2024	0.0023 (J)				
8/21/2024				0.00058 (J)	
8/22/2024	<0.003				
8/23/2024		0.0013 (J)	<0.003		<0.003
Mean	0.004389	0.002167	0.002733	0.002576	0.002553
Std. Dev.	0.006541	0.001093	0.0008443	0.0009494	0.0009406
Upper Lim.	0.025	0.003	0.003	0.003	0.003
Lower Lim.	0.0016	0.00065	0.003	0.00085	0.0015

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 11/8/2024 2:41 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-41	YGWC-42	YGWC-43	YGWC-49	PZ-35
8/30/2016		<0.003			
8/31/2016			<0.003		
9/1/2016				<0.003	
11/15/2016				<0.003	
11/16/2016		<0.003	<0.003		
2/24/2017			<0.003		
2/27/2017		<0.003		0.0011 (J)	
5/9/2017				<0.003	
5/10/2017		<0.003	<0.003		
7/11/2017		<0.003	<0.003		
7/13/2017				<0.003	
10/11/2017				<0.003	
10/12/2017	<0.003	<0.003	<0.003		
11/21/2017	<0.003				
1/11/2018	<0.003				
2/19/2018	<0.003				
4/3/2018	<0.003				
4/4/2018		<0.003	<0.003	<0.003	
6/27/2018	<0.003				
8/7/2018	<0.003				
9/20/2018		<0.003	<0.003	<0.003	
9/24/2018	<0.003				
8/21/2019			<0.003		
8/22/2019	<0.003	<0.003			
9/26/2019				<0.003	<0.003
3/25/2020	<0.003	<0.003	0.00031 (J)	0.00053 (J)	<0.003
9/24/2020		<0.003		<0.003	<0.003
9/25/2020	<0.003		<0.003		
2/9/2021			<0.003	<0.003	
2/10/2021	0.0014 (J)	0.00053 (J)			<0.003
3/4/2021	<0.003	<0.003	<0.003	<0.003	0.00039 (J)
8/25/2021		<0.003			
8/26/2021	<0.003				
9/1/2021				<0.003	<0.003
9/27/2021			<0.003		
2/8/2022	<0.003		<0.003	<0.003	
2/10/2022		<0.003			<0.003
8/31/2022				<0.003	<0.003
9/1/2022	<0.003	<0.003	<0.003		
2/8/2023	<0.003	<0.003	<0.003		
2/9/2023				<0.003	<0.003
8/16/2023	<0.003	<0.003	0.0026 (J)	<0.003	<0.003
2/21/2024				<0.003	
2/22/2024	<0.003	<0.003	<0.003		
2/23/2024					<0.003
8/22/2024		<0.003	<0.003	<0.003	<0.003
8/23/2024	<0.003				
Mean	0.00292	0.002877	0.002846	0.002782	0.002783
Std. Dev.	0.0003578	0.0005523	0.0006034	0.0006789	0.0007534
Upper Lim.	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.0014	0.00053	0.0026	0.0011	0.00039

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 11/8/2024 2:41 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-37	YGWC-36A	PZ-37D	PZ-52D	YGWC-24SB
6/8/2016					<0.003
8/1/2016					<0.003
9/2/2016		<0.003			
9/20/2016					0.0009 (J)
11/8/2016					<0.003
11/14/2016		0.0014 (J)			
1/17/2017					<0.003
2/28/2017		0.0004 (J)			
3/8/2017					<0.003
5/2/2017					<0.003
5/9/2017		<0.003			
7/7/2017					<0.003
7/13/2017		<0.003			
9/22/2017		<0.003			
9/29/2017		<0.003			
10/6/2017		<0.003			
10/12/2017	<0.003				
11/21/2017	<0.003				
1/11/2018	<0.003				
2/20/2018	<0.003				
3/30/2018		<0.003			<0.003
4/3/2018	<0.003				
6/29/2018	<0.003				
8/6/2018	<0.003				
9/24/2018	<0.003				
3/5/2019					<0.003
3/6/2019		0.0011 (J)			
4/4/2019		0.0041			<0.003
9/26/2019		0.0065			<0.003
3/25/2020		0.0011 (J)			
3/26/2020					<0.003
9/23/2020					<0.003
9/25/2020	0.0014 (J)				
10/7/2020		<0.003			
2/9/2021	0.00035 (J)				<0.003
2/10/2021		0.028			
3/3/2021					<0.003
3/4/2021	<0.003	0.0015 (J)			
8/25/2021	<0.003				
9/1/2021					<0.003
9/3/2021		0.0016 (J)	<0.003		
2/10/2022	<0.003				<0.003
2/11/2022		0.0023 (J)	<0.003	<0.003	
9/1/2022	0.00091 (J)	<0.003	<0.003	<0.003	
2/8/2023	<0.003		0.0015 (J)	<0.003	
2/9/2023		<0.003			
2/10/2023					<0.003
8/16/2023		<0.003	<0.003		<0.003
8/17/2023	<0.003			<0.003	
2/21/2024	<0.003		<0.003	<0.003	
2/23/2024		<0.003			<0.003
8/21/2024	0.0085		0.0013 (J)	0.00081 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 11/8/2024 2:41 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-37	YGWC-36A	PZ-37D	PZ-52D	YGWC-24SB
8/22/2024		0.0012 (J)			<0.003
Mean	0.002953	0.003704	0.002543	0.002635	0.002905
Std. Dev.	0.001612	0.005442	0.0007829	0.0008941	0.0004477
Upper Lim.	0.0085	0.0041	0.003	0.003	0.003
Lower Lim.	0.0014	0.0015	0.0013	0.00081	0.0009

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/8/2024 2:41 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-3	YAMW-4	YAMW-5	YGWC-23S
6/7/2016					<0.005
7/28/2016					<0.005
9/20/2016					<0.005
11/8/2016					<0.005
1/16/2017					<0.005
3/9/2017					<0.005
5/2/2017					<0.005
7/10/2017					<0.005
3/30/2018					<0.005
6/12/2018					<0.005
9/27/2018					<0.005
10/16/2018	<0.005				
3/6/2019					<0.005
4/4/2019					<0.005
9/26/2019	<0.005				
9/27/2019					<0.005
3/25/2020	<0.005				
3/26/2020					0.0012 (J)
9/23/2020			<0.005		
9/24/2020	<0.005			0.0015 (J)	<0.005
2/9/2021	<0.005		0.001 (J)	0.00095 (J)	<0.005
3/3/2021	<0.005		0.00079 (J)		
3/4/2021				<0.005	<0.005
8/25/2021			<0.005		<0.005
8/26/2021				<0.005	
9/1/2021	<0.005				
2/10/2022	0.0023 (J)	0.0038 (J)	0.0026 (J)	0.0024 (J)	0.0025 (J)
8/31/2022	<0.005				
9/1/2022		<0.005	<0.005	<0.005	<0.005
2/8/2023			0.0037 (J)	0.0038 (J)	<0.005
2/9/2023	0.0034 (J)	<0.005			
8/16/2023	<0.005	<0.005	<0.005	<0.005	<0.005
2/21/2024		0.0015 (J)			<0.005
2/22/2024			0.001 (J)	0.0011 (J)	
2/23/2024	<0.005				
8/21/2024					<0.005
8/22/2024	0.00093 (J)	0.0022 (J)			
8/23/2024			0.0024 (J)	0.0025 (J)	
Mean	0.004356	0.00375	0.003149	0.003225	0.004748
Std. Dev.	0.001324	0.001559	0.001816	0.001726	0.0008922
Upper Lim.	0.005	0.005	0.005	0.002859	0.005
Lower Lim.	0.0023	0.0015	0.001	0.001178	0.0025

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/8/2024 2:41 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-38	YGWC-41	YGWC-42	YGWC-43	YGWC-49
8/30/2016			0.0023 (J)		
8/31/2016				<0.005	
9/1/2016					<0.005
11/15/2016					<0.005
11/16/2016			0.0017 (J)	<0.005	
2/24/2017				<0.005	
2/27/2017			0.002 (J)		<0.005
5/9/2017					<0.005
5/10/2017			0.0022 (J)	<0.005	
7/11/2017			0.003 (J)	<0.005	
7/13/2017					<0.005
10/11/2017					0.0006 (J)
10/12/2017	0.0023 (J)	0.0011 (J)	0.0031 (J)	<0.005	
11/20/2017	0.0008 (J)				
11/21/2017		<0.005			
1/11/2018		<0.005			
1/12/2018	0.001 (J)				
2/19/2018		<0.005			
2/20/2018	0.00096 (J)				
4/3/2018	0.0015 (J)	0.00072 (J)			
4/4/2018			0.0023 (J)	<0.005	<0.005
6/27/2018		0.00062 (J)			
6/28/2018	0.0017 (J)				
8/7/2018	0.00072 (J)	<0.005			
9/20/2018			0.0018 (J)	0.00099 (J)	0.001 (J)
9/24/2018	0.0017 (J)	0.001 (J)			
8/21/2019				<0.005	
8/22/2019	0.00055 (J)	0.00036 (J)	0.00089 (J)		
9/26/2019					<0.005
10/9/2019	0.00057 (J)	0.00052 (J)	0.00078 (J)	0.00051 (J)	
3/25/2020	0.00068 (J)	0.001 (J)	0.0013 (J)	0.0007 (J)	0.00086 (J)
9/24/2020			<0.005		<0.005
9/25/2020	<0.005	<0.005		<0.005	
2/9/2021	0.00098 (J)			<0.005	<0.005
2/10/2021		<0.005	0.0016 (J)		
3/4/2021	<0.005	<0.005	<0.005	<0.005	<0.005
8/25/2021			0.0014 (J)		
8/26/2021	0.0013 (J)	<0.005			
9/1/2021					<0.005
9/27/2021				<0.005	
2/8/2022		0.0021 (J)		0.0022 (J)	<0.005
2/10/2022	0.0017 (J)		0.0026 (J)		
8/31/2022					<0.005
9/1/2022	<0.005	<0.005	<0.005	<0.005	
2/8/2023	<0.005	0.0027 (J)	0.0025 (J)	0.0033 (J)	
2/9/2023					<0.005
8/16/2023	<0.005	<0.005	<0.005	<0.005	<0.005
2/21/2024					<0.005
2/22/2024	<0.005	<0.005	0.0014 (J)	<0.005	
8/22/2024			0.0021 (J)	0.00095 (J)	<0.005
8/23/2024	<0.005	<0.005			
Mean	0.00245	0.003339	0.002522	0.003983	0.004373

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/8/2024 2:41 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-38	YGWC-41	YGWC-42	YGWC-43	YGWC-49
Std. Dev.	0.001896	0.002026	0.00137	0.001734	0.001533
Upper Lim.	0.005	0.005	0.002209	0.005	0.005
Lower Lim.	0.0008	0.001	0.001435	0.0022	0.001

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/8/2024 2:41 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D
9/2/2016			<0.005		
11/14/2016			<0.005		
2/28/2017			0.0006 (J)		
5/9/2017			0.0006 (J)		
7/13/2017			<0.005		
9/22/2017			<0.005		
9/29/2017			<0.005		
10/6/2017			<0.005		
10/12/2017		0.0014 (J)			
11/21/2017		0.0008 (J)			
1/11/2018		0.0006 (J)			
2/20/2018		<0.005			
3/30/2018			<0.005		
4/3/2018		0.0012 (J)			
6/13/2018			0.00066 (J)		
6/29/2018		0.0011 (J)			
8/6/2018		<0.005			
9/24/2018		0.00094 (J)			
9/26/2018			<0.005		
10/16/2018	0.00069 (J)				
3/6/2019			<0.005		
4/4/2019			<0.005		
9/26/2019	<0.005		<0.005		
3/25/2020	<0.005		<0.005		
9/24/2020	<0.005				
9/25/2020		<0.005			
10/7/2020			<0.005		
2/9/2021		0.0015 (J)			
2/10/2021	0.00096 (J)		0.00088 (J)		
3/4/2021	<0.005	<0.005	<0.005		
8/25/2021		0.0014 (J)			
9/1/2021	<0.005				
9/3/2021			<0.005	<0.005	
2/10/2022	0.0018 (J)	0.0017 (J)			
2/11/2022			0.0014 (J)	<0.005	0.0014 (J)
8/31/2022	<0.005				
9/1/2022		<0.005	<0.005	<0.005	<0.005
2/8/2023		<0.005		<0.005	0.0032 (J)
2/9/2023	0.0028 (J)		0.0047 (J)		
8/16/2023	<0.005		<0.005	<0.005	
8/17/2023		<0.005			<0.005
2/21/2024		0.0023 (J)		0.0014 (J)	0.0013 (J)
2/23/2024	<0.005		<0.005		
8/21/2024		0.0037 (J)		0.0038 (J)	0.0055
8/22/2024	0.0014 (J)		<0.005		
Mean	0.003665	0.002869	0.004154	0.004314	0.003567
Std. Dev.	0.001821	0.00187	0.001704	0.001361	0.001888
Upper Lim.	0.005	0.005	0.005	0.005	0.00467
Lower Lim.	0.00096	0.0011	0.0047	0.0014	0.0004411

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/8/2024 2:41 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-51	YGWC-24SB
6/8/2016		<0.005
8/1/2016		<0.005
9/20/2016		<0.005
11/8/2016		<0.005
1/17/2017		<0.005
3/8/2017		<0.005
5/2/2017		<0.005
7/7/2017		<0.005
3/30/2018		<0.005
6/12/2018		<0.005
9/26/2018		<0.005
3/5/2019		<0.005
4/4/2019		<0.005
9/26/2019		<0.005
3/26/2020		0.0015 (J)
9/23/2020		<0.005
2/9/2021		<0.005
3/3/2021		<0.005
9/1/2021		<0.005
2/10/2022	0.0013 (J)	0.0024 (J)
9/1/2022	<0.005	
2/9/2023	<0.005	
2/10/2023		0.0035 (J)
8/16/2023	<0.005	<0.005
2/22/2024	<0.005	
2/23/2024		<0.005
8/22/2024	0.0017 (J)	<0.005
Mean	0.003833	0.004683
Std. Dev.	0.001812	0.0009054
Upper Lim.	0.005	0.005
Lower Lim.	0.0013	0.0035

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/8/2024 2:41 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5
10/16/2018	0.048				
9/26/2019	0.047				
3/25/2020	0.04				
9/23/2020		0.0092 (J)		0.0063 (J)	
9/24/2020	0.028				0.057
2/9/2021	0.039	0.0085 (J)		0.02	0.042
3/3/2021	0.035	0.0082		0.021	
3/4/2021					0.039
8/25/2021				0.0037 (J)	
8/26/2021					0.036
9/1/2021	0.075	0.0072			
2/10/2022	0.084	0.0074	0.038	0.0033 (J)	0.034
8/31/2022	0.085				
9/1/2022		0.0092	0.024	0.003 (J)	0.034
2/8/2023		0.0064		0.003 (J)	0.039
2/9/2023	0.078		0.045		
8/16/2023	0.092		0.026	0.0031 (J)	0.036
8/17/2023		0.0092			
2/21/2024			0.032		
2/22/2024		0.0068		0.003 (J)	0.035
2/23/2024	0.087				
8/21/2024		0.0089			
8/22/2024	0.086		0.031		
8/23/2024				0.0031 (J)	0.035
Mean	0.06338	0.0081	0.03267	0.00695	0.0387
Std. Dev.	0.02386	0.001071	0.007789	0.007215	0.006929
Upper Lim.	0.087	0.009055	0.04337	0.02	0.042
Lower Lim.	0.035	0.007145	0.02197	0.003	0.034

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/8/2024 2:41 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-23S	YGWC-38	YGWC-41	YGWC-42	YGWC-43
6/7/2016	0.045				
7/28/2016	0.0511				
8/30/2016				0.0455	
8/31/2016					0.0065 (J)
9/20/2016	0.0561				
11/8/2016	0.054				
11/16/2016				0.0541	0.0092 (J)
1/16/2017	0.0528				
2/24/2017					0.0144
2/27/2017				0.0573	
3/9/2017	0.0469				
5/2/2017	0.0427				
5/10/2017				0.0517	0.0173
7/10/2017	0.0395				
7/11/2017				0.0451	0.0183
10/12/2017		0.0269	0.0394	0.0429	0.0205
11/20/2017		0.0255			
11/21/2017			0.032		
1/11/2018			0.03		
1/12/2018		0.0236			
2/19/2018			0.0308		
2/20/2018		0.0255			
3/30/2018	0.03				
4/3/2018		0.023	0.03		
4/4/2018				0.041	0.024
6/12/2018	0.024				
6/27/2018			0.028		
6/28/2018		0.024			
8/7/2018		0.023	0.027		
9/20/2018				0.038	0.035
9/24/2018		0.021	0.026		
9/27/2018	0.022				
3/6/2019	0.019				
4/4/2019	0.019				
8/21/2019					0.03
8/22/2019		0.019	0.021	0.031	
9/27/2019	0.018				
10/9/2019		0.019	0.021	0.027	0.04
3/25/2020		0.018	0.021	0.03	0.033
3/26/2020	0.027				
9/24/2020	0.035			0.026	
9/25/2020		0.015	0.016		0.046
2/9/2021	0.042	0.016			0.041
2/10/2021			0.017	0.031	
3/4/2021	0.043	0.016	0.017	0.03	0.039
8/25/2021	0.049			0.027	
8/26/2021		0.016	0.018		
9/27/2021					0.0097
2/8/2022			0.021		0.029
2/10/2022	0.058	0.016		0.026	
9/1/2022	0.053	0.014	0.019	0.023	0.029
2/8/2023	0.053	0.016	0.022	0.023	0.031

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/8/2024 2:41 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-23S	YGWC-38	YGWC-41	YGWC-42	YGWC-43
8/16/2023	0.052	0.015	0.02	0.024	0.029
2/21/2024	0.053				
2/22/2024		0.015	0.019	0.021	0.028
8/21/2024	0.057				
8/22/2024				0.022	0.035
8/23/2024		0.016	0.019		
Mean	0.04168	0.01921	0.02353	0.03412	0.0269
Std. Dev.	0.01346	0.00422	0.006216	0.01138	0.01115
Upper Lim.	0.04922	0.02154	0.02696	0.0404	0.03305
Lower Lim.	0.03742	0.01689	0.0201	0.02785	0.02075

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/8/2024 2:41 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	PZ-35	PZ-37	YGWC-36A	PZ-37D
9/1/2016	0.077				
9/2/2016				0.0409	
11/14/2016				0.0182	
11/15/2016	0.0772				
2/27/2017	0.0888				
2/28/2017				0.023	
5/9/2017	0.0792			0.0349	
7/13/2017	0.0839			0.0484	
9/22/2017				0.0491	
9/29/2017				0.0452	
10/6/2017				0.0508	
10/11/2017	0.078				
10/12/2017			0.064		
11/21/2017			0.0579		
1/11/2018			0.0549		
2/20/2018			0.0593		
3/30/2018				0.043	
4/3/2018			0.051		
4/4/2018	0.074				
6/13/2018				0.046	
6/29/2018			0.054		
8/6/2018			0.048		
9/20/2018	0.074				
9/24/2018			0.047		
9/26/2018				0.048	
10/16/2018		0.063			
3/6/2019				0.041	
4/4/2019				0.042	
9/26/2019	0.065	0.039		0.025	
3/25/2020	0.071	0.039		0.025	
9/24/2020	0.066	0.034			
9/25/2020			0.034		
10/7/2020				0.04	
2/9/2021	0.071		0.036		
2/10/2021		0.032		0.035	
3/4/2021	0.069	0.033	0.036	0.028	
8/25/2021			0.035		
9/1/2021	0.066	0.067			
9/3/2021				0.038	0.015
2/8/2022	0.07				
2/10/2022		0.074	0.029		
2/11/2022				0.044	0.013
8/31/2022	0.058	0.1			
9/1/2022			0.023	0.059	0.033
2/8/2023			0.022		0.018
2/9/2023	0.063	0.13		0.097	
8/16/2023	0.058	0.18		0.19	0.021
8/17/2023			0.023		
2/21/2024	0.054		0.021		0.02
2/23/2024		0.21		0.13	
8/21/2024			0.022		0.028
8/22/2024	0.054	0.15		0.089	

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/8/2024 2:41 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	PZ-35	PZ-37	YGWC-36A	PZ-37D
Mean	0.06986	0.08854	0.03984	0.05322	0.02114
Std. Dev.	0.009561	0.06072	0.0148	0.03768	0.007105
Upper Lim.	0.07528	0.1262	0.04879	0.05919	0.02958
Lower Lim.	0.06443	0.04373	0.03089	0.0349	0.0127

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/8/2024 2:41 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-52D	PZ-51	YGWC-24SB
6/8/2016			0.02
8/1/2016			0.02
9/20/2016			0.0203
11/8/2016			0.0191
1/17/2017			0.0192
3/8/2017			0.0189
5/2/2017			0.019
7/7/2017			0.019
3/30/2018			0.02
6/12/2018			0.018
9/26/2018			0.019
3/5/2019			0.019
4/4/2019			0.02
9/26/2019			0.017
3/26/2020			0.019
9/23/2020			0.026
2/9/2021			0.031
3/3/2021			0.025
9/1/2021			0.025
2/10/2022		0.017	0.026
2/11/2022	0.032		
9/1/2022	0.015	0.013	
2/8/2023	0.012		
2/9/2023		0.015	
2/10/2023			0.031
8/16/2023		0.014	0.025
8/17/2023	0.011		
2/21/2024	0.0091		
2/22/2024		0.015	
2/23/2024			0.032
8/21/2024	0.0079		
8/22/2024		0.014	0.025
Mean	0.0145	0.01467	0.02223
Std. Dev.	0.008919	0.001366	0.00447
Upper Lim.	0.02587	0.01654	0.025
Lower Lim.	0.005707	0.01279	0.019

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/8/2024 2:41 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-5	YGWC-23S
6/7/2016					<0.0005
7/28/2016					<0.0005
9/20/2016					0.0001 (J)
11/8/2016					<0.0005
1/16/2017					0.0001 (J)
3/9/2017					0.0001 (J)
5/2/2017					9E-05 (J)
7/10/2017					<0.0005
3/30/2018					<0.0005
6/12/2018					8.1E-05 (J)
9/27/2018					9E-05 (J)
10/16/2018	<0.0005				
3/6/2019					6.6E-05 (J)
4/4/2019					7.2E-05 (J)
9/26/2019	<0.0005				
9/27/2019					7.7E-05 (J)
1/15/2020				0.00017 (J)	
3/25/2020	0.00037 (J)				
3/26/2020					9E-05 (J)
9/23/2020		<0.0005			
9/24/2020	5.8E-05 (J)			8.6E-05 (J)	0.00015 (J)
2/9/2021	<0.0005	5.1E-05 (J)		0.00015 (J)	0.00015 (J)
3/3/2021	<0.0005	<0.0005			
3/4/2021				0.00013 (J)	0.00013 (J)
8/25/2021					0.00019 (J)
8/26/2021				0.00012 (J)	
9/1/2021	9.5E-05 (J)	6.5E-05 (J)			
2/10/2022	0.00016 (J)	7.4E-05 (J)	7.8E-05 (J)	0.00013 (J)	0.00023 (J)
8/31/2022	0.00011 (J)				
9/1/2022		5.7E-05 (J)	0.00011 (J)	0.00011 (J)	0.00019 (J)
2/8/2023		5.5E-05 (J)		0.00013 (J)	0.00022 (J)
2/9/2023	0.00012 (J)		6.2E-05 (J)		
8/16/2023	0.00028 (J)		0.00017 (J)	0.00011 (J)	0.0002 (J)
8/17/2023		6.9E-05 (J)			
2/21/2024			0.00019 (J)		0.00019 (J)
2/22/2024		<0.0005		0.00013 (J)	
2/23/2024	0.00015 (J)				
8/21/2024		<0.0005			0.00019 (J)
8/22/2024	9.5E-05 (J)		0.00012 (J)		
8/23/2024				0.00012 (J)	
Mean	0.0002645	0.0002371	0.0001217	0.000126	0.0002082
Std. Dev.	0.0001831	0.0002264	5.022E-05	2.182E-05	0.0001568
Upper Lim.	0.000202	0.0005	0.0001907	0.0001442	0.00022
Lower Lim.	8.345E-05	5.5E-05	5.268E-05	0.0001078	9E-05

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/8/2024 2:41 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-38	YGWC-41	YGWC-42	YGWC-43	YGWC-49
8/30/2016			9E-05 (J)		
8/31/2016				<0.0005	
9/1/2016					0.0001 (J)
11/15/2016					0.0001 (J)
11/16/2016			<0.0005	<0.0005	
2/24/2017				<0.0005	
2/27/2017			<0.0005		0.0001 (J)
5/9/2017					0.0001 (J)
5/10/2017			9E-05 (J)	<0.0005	
7/11/2017			0.0001 (J)	<0.0005	
7/13/2017					0.0001 (J)
10/11/2017					0.0001 (J)
10/12/2017	0.0057	0.0036	<0.0005	0.0001 (J)	
11/20/2017	0.0053				
11/21/2017		0.0036			
1/11/2018		0.0037			
1/12/2018	0.0053				
2/19/2018		0.0039			
2/20/2018	0.0053				
4/3/2018	0.0056	0.0037			
4/4/2018			<0.0005	<0.0005	<0.0005
6/27/2018		0.0038			
6/28/2018	0.0059				
8/7/2018	0.0058	0.0037			
9/20/2018			<0.0005	0.00029 (J)	0.00011 (J)
9/24/2018	0.0051	0.0032			
8/21/2019				0.0003 (J)	
8/22/2019	0.0049	0.0026 (J)	<0.0005		
9/26/2019					0.00013 (J)
10/9/2019	0.0046	0.0026 (J)	<0.0005	0.00034 (J)	
3/25/2020	0.0038	0.0026 (J)	<0.0005	0.00034 (J)	0.00013 (J)
9/24/2020			6.7E-05 (J)		0.00013 (J)
9/25/2020	0.0033	0.002 (J)		0.00054 (J)	
2/9/2021	0.0029 (J)			0.00053 (J)	0.00013 (J)
2/10/2021		0.0015 (J)	5.7E-05 (J)		
3/4/2021	0.0029	0.0015	<0.0005	0.00056	0.0001 (J)
8/25/2021			<0.0005		
8/26/2021	0.0028	0.0012			
9/1/2021					0.00012 (J)
9/27/2021				0.00015 (J)	
2/8/2022		0.0016		0.00037 (J)	0.00015 (J)
2/10/2022	0.0027		6.1E-05 (J)		
8/31/2022					0.00017 (J)
9/1/2022	0.0022	0.0013	<0.0005	0.00033 (J)	
2/8/2023	0.002	0.0013	6.2E-05 (J)	0.00036 (J)	
2/9/2023					0.00012 (J)
8/16/2023	0.0018	0.0012	5.7E-05 (J)	0.00034 (J)	0.00011 (J)
2/21/2024					0.0001 (J)
2/22/2024	0.0019	0.0014	<0.0005	0.00032 (J)	
8/22/2024			<0.0005	0.00043 (J)	0.0001 (J)
8/23/2024	0.0015	0.0011			
Mean	0.003871	0.002433	0.0003373	0.0003952	0.0001225

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/8/2024 2:41 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-38	YGWC-41	YGWC-42	YGWC-43	YGWC-49
Std. Dev.	0.001553	0.00108	0.0002127	0.0001268	3.582E-05
Upper Lim.	0.004728	0.0037	0.0005	0.000396	0.00013
Lower Lim.	0.003015	0.0013	6.7E-05	0.0002574	0.0001

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/8/2024 2:41 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-52D	PZ-51
9/2/2016			0.0003 (J)		
11/14/2016			9E-05 (J)		
2/28/2017			0.0001 (J)		
5/9/2017			0.0002 (J)		
7/13/2017			0.0003 (J)		
9/22/2017			0.0003 (J)		
9/29/2017			0.0003 (J)		
10/6/2017			0.0003 (J)		
10/12/2017		0.0004 (J)			
11/21/2017		0.0004 (J)			
1/11/2018		0.0003 (J)			
2/20/2018		<0.0005			
3/30/2018			<0.0005		
4/3/2018		<0.0005			
6/13/2018			0.00035 (J)		
6/29/2018		0.00033 (J)			
8/6/2018		0.0002 (J)			
8/30/2018	0.00052 (J)				
9/24/2018		0.00029 (J)			
9/26/2018			0.00032 (J)		
10/16/2018	0.00036 (J)				
3/6/2019			0.00029 (J)		
4/4/2019			0.00033 (J)		
9/26/2019	<0.0005		0.00029 (J)		
3/25/2020	<0.0005		0.00022 (J)		
9/24/2020	0.00033 (J)				
9/25/2020		0.00031 (J)			
10/7/2020			0.00014 (J)		
2/9/2021		0.00029 (J)			
2/10/2021	0.00025 (J)		9.9E-05 (J)		
3/4/2021	0.00025 (J)	0.00017 (J)	0.00016 (J)		
8/25/2021		0.00059			
9/1/2021	0.00045 (J)				
9/3/2021			0.00035 (J)		
2/10/2022	0.00055	0.001			0.0033
2/11/2022			0.00043 (J)	5.9E-05 (J)	
8/31/2022	0.00061				
9/1/2022		0.0011	0.00053	<0.0005	0.0031
2/8/2023		0.0011		<0.0005	
2/9/2023	0.0008		0.00066		0.0024
8/16/2023	0.0011		0.0011		0.0028
8/17/2023		0.0012		8.6E-05 (J)	
2/21/2024		0.0012		<0.0005	
2/22/2024					0.0029
2/23/2024	0.0015		0.0018		
8/21/2024		0.0011		<0.0005	
8/22/2024	0.00095		0.0021		0.0032
Mean	0.0005836	0.0005822	0.0004524	0.0003575	0.00295
Std. Dev.	0.0003793	0.000401	0.0004977	0.0002209	0.0003271
Upper Lim.	0.0007998	0.0011	0.0004709	0.0005	0.003399
Lower Lim.	0.0003219	0.00025	0.0002147	5.9E-05	0.002501

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/8/2024 2:41 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-24SB
6/8/2016	<0.0005
8/1/2016	0.0001 (J)
9/20/2016	0.0001 (J)
11/8/2016	<0.0005
1/17/2017	0.0001 (J)
3/8/2017	0.0001 (J)
5/2/2017	0.0001 (J)
7/7/2017	0.0001 (J)
3/30/2018	<0.0005
6/12/2018	0.00012 (J)
9/26/2018	0.00014 (J)
3/5/2019	0.00016 (J)
4/4/2019	0.00015 (J)
9/26/2019	0.00014 (J)
3/26/2020	0.00016 (J)
9/23/2020	6.1E-05 (J)
2/9/2021	0.00013 (J)
3/3/2021	9.9E-05 (J)
9/1/2021	0.00014 (J)
2/10/2022	0.00016 (J)
2/10/2023	5.4E-05 (J)
8/16/2023	9.6E-05 (J)
2/23/2024	0.00015 (J)
8/22/2024	0.00012 (J)
Mean	0.0001346
Std. Dev.	5.306E-05
Upper Lim.	0.0001568
Lower Lim.	0.0001056

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 11/8/2024 2:41 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-5	YGWC-23S
6/7/2016					<0.0005
7/28/2016					<0.0005
9/20/2016					<0.0005
11/8/2016					7E-05 (J)
1/16/2017					<0.0005
3/9/2017					<0.0005
5/2/2017					<0.0005
7/10/2017					<0.0005
3/30/2018					<0.0005
6/12/2018					<0.0005
9/27/2018					<0.0005
10/16/2018	0.00014 (J)				
3/6/2019					<0.0005
4/4/2019					<0.0005
9/26/2019	<0.0005				
9/27/2019					<0.0005
3/25/2020	<0.0005				
3/26/2020					<0.0005
9/23/2020		<0.0005			
9/24/2020	0.00017 (J)			0.00018 (J)	<0.0005
2/9/2021	0.00013 (J)	<0.0005		0.00025 (J)	<0.0005
3/3/2021	<0.0005	<0.0005			
3/4/2021				0.00018 (J)	<0.0005
8/25/2021					<0.0005
8/26/2021				0.00021 (J)	
9/1/2021	0.00023 (J)	<0.0005			
2/10/2022	0.00018 (J)	<0.0005	<0.0005	0.00022 (J)	<0.0005
8/31/2022	0.00015 (J)				
9/1/2022		0.00015 (J)	<0.0005	0.00023 (J)	<0.0005
2/8/2023		<0.0005		0.00046 (J)	<0.0005
2/9/2023	<0.0005		<0.0005		
8/16/2023	0.00021 (J)		0.00048 (J)	0.00022 (J)	<0.0005
8/17/2023		<0.0005			
2/21/2024			0.00035 (J)		<0.0005
2/22/2024		<0.0005		0.00022 (J)	
2/23/2024	0.00023 (J)				
8/21/2024		<0.0005			<0.0005
8/22/2024	0.00018 (J)		0.00025 (J)		
8/23/2024				0.00023 (J)	
Mean	0.0002785	0.000465	0.00043	0.00024	0.0004828
Std. Dev.	0.0001567	0.0001107	0.0001058	8.028E-05	8.6E-05
Upper Lim.	0.0005	0.0005	0.0005	0.00025	0.0005
Lower Lim.	0.00014	0.0005	0.00025	0.00018	7E-05

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 11/8/2024 2:41 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-38	YGWC-41	YGWC-42	YGWC-49	PZ-35
8/30/2016			<0.0005		
9/1/2016				<0.0005	
11/15/2016				<0.0005	
11/16/2016			<0.0005		
2/27/2017			<0.0005	7E-05 (J)	
5/9/2017				<0.0005	
5/10/2017			0.0002 (J)		
7/11/2017			0.0005 (J)		
7/13/2017				<0.0005	
10/11/2017				<0.0005	
10/12/2017	0.003	0.0002 (J)	0.0006 (J)		
11/20/2017	0.0027				
11/21/2017		0.0003 (J)			
1/11/2018		0.0002 (J)			
1/12/2018	0.0029				
2/19/2018		<0.0005			
2/20/2018	0.0029				
4/3/2018	0.0027	<0.0005			
4/4/2018			<0.0005	<0.0005	
6/27/2018		0.00025 (J)			
6/28/2018	0.0029				
8/7/2018	0.0027	0.00024 (J)			
9/20/2018			0.0002 (J)	<0.0005	
9/24/2018	0.0027	0.00021 (J)			
10/16/2018					<0.0005
8/22/2019	0.0023 (J)	0.00015 (J)	0.00017 (J)		
9/26/2019				<0.0005	<0.0005
10/9/2019	0.0021 (J)	0.00017 (J)	0.00025 (J)		
3/25/2020	0.0018 (J)	0.00018 (J)	0.00021 (J)	<0.0005	0.00016 (J)
9/24/2020			0.00014 (J)	<0.0005	<0.0005
9/25/2020	0.0015 (J)	0.00014 (J)			
2/9/2021	0.0014 (J)			<0.0005	
2/10/2021		<0.0005	<0.0005		<0.0005
3/4/2021	0.0013	<0.0005	<0.0005	<0.0005	<0.0005
8/25/2021			<0.0005		
8/26/2021	0.0011	<0.0005			
9/1/2021				<0.0005	<0.0005
2/8/2022		0.00012 (J)		<0.0005	
2/10/2022	0.0011		<0.0005		<0.0005
8/31/2022				<0.0005	0.00011 (J)
9/1/2022	0.00094	<0.0005	<0.0005		
2/8/2023	0.00068	<0.0005	0.00014 (J)		
2/9/2023				<0.0005	0.00025 (J)
8/16/2023	0.00074	<0.0005	<0.0005	<0.0005	0.0002 (J)
2/21/2024				<0.0005	
2/22/2024	0.00074	<0.0005	<0.0005		
2/23/2024					0.00027 (J)
8/22/2024			<0.0005	<0.0005	0.00021 (J)
8/23/2024	0.00063	<0.0005			
Mean	0.001849	0.000341	0.0004005	0.0004785	0.0003615
Std. Dev.	0.0008857	0.0001598	0.0001576	9.615E-05	0.0001602
Upper Lim.	0.002338	0.0005	0.0005	0.0005	0.0005

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 11/8/2024 2:41 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-38	YGWC-41	YGWC-42	YGWC-49	PZ-35
Lower Lim.	0.00136	0.00018	0.0002	7E-05	0.00016

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 11/8/2024 2:41 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-37	YGWC-36A	PZ-51
9/2/2016		<0.001	
11/14/2016		9E-05 (J)	
2/28/2017		0.0001 (J)	
5/9/2017		0.0002 (J)	
7/13/2017		0.0002 (J)	
9/22/2017		0.0002 (J)	
9/29/2017		0.0002 (J)	
10/6/2017		0.0002 (J)	
10/12/2017	0.0002 (J)		
11/21/2017	0.0002 (J)		
1/11/2018	0.0004 (J)		
2/20/2018	<0.001		
3/30/2018		<0.001	
4/3/2018	<0.001		
6/13/2018		0.00019 (J)	
6/29/2018	0.00099 (J)		
8/6/2018	0.00063 (J)		
9/24/2018	0.00069 (J)		
9/26/2018		0.00018 (J)	
3/6/2019		0.00015 (J)	
4/4/2019		0.00019 (J)	
9/26/2019		0.00017 (J)	
3/25/2020		0.00019 (J)	
9/25/2020	0.00039 (J)		
10/7/2020		0.00012 (J)	
2/9/2021	0.00042 (J)		
2/10/2021		<0.0005	
3/4/2021	0.00028 (J)	<0.0005	
8/25/2021	0.00094		
9/3/2021		<0.0005	
2/10/2022	0.00093		0.0019
2/11/2022		<0.0005	
9/1/2022	0.0009	<0.0005	0.0017
2/8/2023	0.00076		
2/9/2023		<0.0005	0.0018
8/16/2023		<0.0005	0.0017
8/17/2023	0.00085		
2/21/2024	0.00086		
2/22/2024			0.0017
2/23/2024		<0.0005	
8/21/2024	0.00081		
8/22/2024		0.00014 (J)	0.0017
Mean	0.000625	0.000426	0.00175
Std. Dev.	0.0002682	0.0001561	8.367E-05
Upper Lim.	0.0007873	0.0005	0.0019
Lower Lim.	0.0004627	0.00014	0.0017

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/8/2024 2:41 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5
3/25/2020	0.00058 (J)				
9/23/2020		0.00071 (J)		<0.005	
9/24/2020	0.00074 (J)				<0.005
2/9/2021	0.001 (J)	0.0011 (J)		0.00057 (J)	<0.005
3/3/2021	0.00076 (J)	0.0012 (J)		<0.005	
3/4/2021					<0.005
8/25/2021				<0.005	
8/26/2021					<0.005
9/1/2021	<0.005	0.003 (J)			
2/10/2022	0.0013 (J)	<0.005	0.0011 (J)	<0.005	0.0016 (J)
8/31/2022	<0.005				
9/1/2022		<0.005	<0.005	<0.005	<0.005
2/8/2023		<0.005		<0.005	<0.005
2/9/2023	<0.005		<0.005		
8/16/2023	<0.005		<0.005	<0.005	<0.005
8/17/2023		<0.005			
2/21/2024			<0.005		
2/22/2024		<0.005		<0.005	<0.005
2/23/2024	<0.005				
8/21/2024		<0.005			
8/22/2024	<0.005		<0.005		
8/23/2024				<0.005	<0.005
Mean	0.003125	0.003601	0.00435	0.004557	0.00466
Std. Dev.	0.002161	0.0019	0.001592	0.001401	0.001075
Upper Lim.	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.00074	0.0011	0.0011	0.005	0.005

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/8/2024 2:41 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-23S	YGWC-38	YGWC-41	YGWC-42	YGWC-43
6/7/2016	<0.005				
7/28/2016	0.0008 (J)				
8/30/2016				<0.005	
8/31/2016					<0.005
9/20/2016	<0.005				
11/8/2016	<0.005				
11/16/2016				<0.005	<0.005
1/16/2017	<0.005				
2/24/2017					<0.005
2/27/2017				<0.005	
3/9/2017	<0.005				
5/2/2017	0.0007 (J)				
5/10/2017				0.0006 (J)	0.0005 (J)
7/10/2017	<0.005				
7/11/2017				<0.005	<0.005
10/12/2017		0.0005 (J)	<0.005	<0.005	<0.005
11/20/2017		<0.005			
11/21/2017			<0.005		
1/11/2018			<0.005		
1/12/2018		<0.005			
2/19/2018			<0.005		
2/20/2018		<0.005			
3/30/2018	<0.005				
4/3/2018		<0.005	<0.005		
4/4/2018				<0.005	<0.005
6/27/2018			<0.005		
6/28/2018		<0.005			
8/7/2018		<0.005	<0.005		
9/20/2018				<0.005	<0.005
9/24/2018		<0.005	<0.005		
3/6/2019	<0.005				
8/21/2019					0.00062 (J)
8/22/2019		<0.005	<0.005	<0.005	
10/9/2019		<0.005	<0.005	0.00043 (J)	0.00074 (J)
3/25/2020		0.00065 (J)	0.00039 (J)	0.0013 (J)	<0.005
3/26/2020	0.0019 (J)				
9/24/2020	0.0011 (J)			<0.005	
9/25/2020		<0.005	<0.005		0.00071 (J)
2/9/2021	0.00086 (J)	<0.005			<0.005
2/10/2021			<0.005	<0.005	
3/4/2021	0.00078 (J)	<0.005	<0.005	<0.005	<0.005
8/25/2021	<0.005			<0.005	
8/26/2021		<0.005	<0.005		
9/27/2021					<0.005
2/8/2022			<0.005		<0.005
2/10/2022	<0.005	<0.005		<0.005	
9/1/2022	<0.005	<0.005	<0.005	<0.005	<0.005
2/8/2023	0.0014 (J)	<0.005	<0.005	<0.005	<0.005
8/16/2023	<0.005	<0.005	<0.005	<0.005	<0.005
2/21/2024	<0.005				
2/22/2024		<0.005	<0.005	<0.005	<0.005
8/21/2024	<0.005				

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/8/2024 2:41 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-23S	YGWC-38	YGWC-41	YGWC-42	YGWC-43
8/22/2024				<0.005	<0.005
8/23/2024		<0.005	<0.005		
Mean	0.003692	0.004579	0.00478	0.004397	0.00417
Std. Dev.	0.00191	0.001331	0.001006	0.001521	0.001754
Upper Lim.	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.0011	0.00065	0.00039	0.0013	0.00074

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/8/2024 2:41 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	PZ-35	PZ-37	YGWC-36A	PZ-52D
9/1/2016	0.0013 (J)				
9/2/2016				<0.005	
11/14/2016				0.0035	
11/15/2016	0.0014 (J)				
2/27/2017	0.0016 (J)				
2/28/2017				<0.005	
5/9/2017	0.0017 (J)			<0.005	
7/13/2017	0.0019 (J)			<0.005	
9/22/2017				<0.005	
9/29/2017				<0.005	
10/6/2017				<0.005	
10/11/2017	0.0014 (J)				
10/12/2017			0.0019 (J)		
11/21/2017			0.0017 (J)		
1/11/2018			0.001 (J)		
2/20/2018			<0.005		
3/30/2018				<0.005	
4/3/2018			<0.005		
4/4/2018	<0.01				
6/29/2018			<0.005		
8/6/2018			<0.005		
9/20/2018	0.0017 (J)				
9/24/2018			<0.005		
3/6/2019				<0.005	
3/25/2020	0.0019 (J)	0.0012 (J)		0.00074 (J)	
9/24/2020	0.0019 (J)	0.00061 (J)			
9/25/2020			<0.005		
10/7/2020				0.0013 (J)	
2/9/2021	0.002 (J)		<0.005		
2/10/2021		0.0006 (J)		0.00094 (J)	
3/4/2021	0.0017 (J)	0.0007 (J)	<0.005	<0.005	
8/25/2021			<0.005		
9/1/2021	0.002 (J)	<0.005			
9/3/2021				<0.005	
2/8/2022	0.0021 (J)				
2/10/2022		<0.005	<0.005		
2/11/2022				<0.005	0.0011 (J)
8/31/2022	0.002 (J)	<0.005			
9/1/2022			<0.005	<0.005	<0.005
2/8/2023			<0.005		<0.005
2/9/2023	0.002 (J)	0.0016 (J)		<0.005	
8/16/2023	0.0017 (J)	<0.005		<0.005	
8/17/2023			<0.005		<0.005
2/21/2024	0.0021 (J)		<0.005		<0.005
2/23/2024		<0.005		<0.005	
8/21/2024			<0.005		<0.005
8/22/2024	0.002 (J)	<0.005		<0.005	
Mean	0.001968	0.003155	0.004422	0.004356	0.00435
Std. Dev.	0.0007732	0.002138	0.001339	0.001447	0.001592
Upper Lim.	0.002	0.005	0.005	0.005	0.005
Lower Lim.	0.0016	0.00061	0.0019	0.0035	0.0011

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/8/2024 2:41 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-24SB
6/8/2016	<0.005
8/1/2016	<0.005
9/20/2016	<0.005
11/8/2016	<0.005
1/17/2017	<0.005
3/8/2017	<0.005
5/2/2017	0.0011 (J)
7/7/2017	<0.005
3/30/2018	<0.005
3/5/2019	<0.005
3/26/2020	0.00094 (J)
9/23/2020	<0.005
2/9/2021	0.0011 (J)
3/3/2021	<0.005
9/1/2021	<0.005
2/10/2022	<0.005
2/10/2023	<0.005
8/16/2023	<0.005
2/23/2024	<0.005
8/22/2024	<0.005
Mean	0.004407
Std. Dev.	0.001449
Upper Lim.	0.005
Lower Lim.	0.0011

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/8/2024 2:41 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5
10/16/2018	0.032				
9/26/2019	0.015				
1/3/2020	<0.005				
3/25/2020	<0.005				
9/23/2020		0.0025 (J)		0.00052 (J)	
9/24/2020	0.01				0.00077 (J)
2/9/2021	0.03	0.001 (J)		0.00063 (J)	<0.005
3/3/2021	0.018	0.00082 (J)		0.001 (J)	
3/4/2021					<0.005
8/25/2021				0.00041 (J)	
8/26/2021					<0.005
9/1/2021	0.022	0.00093 (J)			
2/10/2022	0.011	0.00052 (J)	0.16	0.00044 (J)	<0.005
8/31/2022	0.0041 (J)				
9/1/2022		0.0068	0.058	0.00048 (J)	<0.005
2/8/2023		<0.005		0.00085 (J)	<0.005
2/9/2023	0.0045 (J)		0.066		
8/16/2023	0.0027 (J)		0.14	<0.005	<0.005
8/17/2023		0.0053			
2/21/2024			0.051		
2/22/2024		0.00044 (J)		<0.005	<0.005
2/23/2024	0.0044 (J)				
8/21/2024		0.0023 (J)			
8/22/2024	0.0018 (J)		0.035		
8/23/2024				<0.005	<0.005
Mean	0.01146	0.002311	0.085	0.001933	0.004577
Std. Dev.	0.01044	0.002153	0.05176	0.002124	0.001338
Upper Lim.	0.01703	0.003901	0.1561	0.005	0.005
Lower Lim.	0.003957	0.0006296	0.01389	0.00044	0.005

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/8/2024 2:41 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-41	YGWC-42	YGWC-43	YGWC-49	PZ-35
8/30/2016		0.0025 (J)			
8/31/2016			<0.005		
9/1/2016				<0.005	
11/15/2016				0.0006 (J)	
11/16/2016		0.002 (J)	<0.005		
2/24/2017			<0.005		
2/27/2017		0.0021 (J)		0.0008 (J)	
5/9/2017				<0.005	
5/10/2017		0.0021 (J)	<0.005		
7/11/2017		0.0014 (J)	<0.005		
7/13/2017				0.0005 (J)	
10/11/2017				0.0006 (J)	
10/12/2017	0.0011 (J)	0.0017 (J)	0.0006 (J)		
11/21/2017	0.0003 (J)				
1/11/2018	0.0003 (J)				
2/19/2018	<0.005				
4/3/2018	<0.005				
4/4/2018		<0.005	<0.005	<0.005	
6/27/2018	0.00069 (J)				
8/7/2018	<0.005				
9/20/2018		0.003 (J)	0.0034 (J)	<0.005	
9/24/2018	<0.005				
10/16/2018					<0.005
8/21/2019			0.0026 (J)		
8/22/2019	<0.005	0.0019 (J)			
9/26/2019				<0.005	<0.005
10/9/2019	<0.005	0.0019 (J)	0.0023 (J)		
3/25/2020	<0.005	0.0018 (J)	0.0016 (J)	<0.005	0.0059
9/24/2020		0.0017 (J)		<0.005	<0.005
9/25/2020	<0.005		0.0018 (J)		
2/9/2021			0.0017 (J)	<0.005	
2/10/2021	<0.005	0.0019 (J)			<0.005
3/4/2021	<0.005	0.0018 (J)	0.0015 (J)	<0.005	<0.005
8/25/2021		0.0014 (J)			
8/26/2021	<0.005				
9/1/2021				<0.005	<0.005
9/27/2021			<0.005		
2/8/2022	<0.005		0.00045 (J)	<0.005	
2/10/2022		0.0017 (J)			<0.005
8/31/2022				<0.005	<0.005
9/1/2022	<0.005	0.0015 (J)	0.0005 (J)		
2/8/2023	<0.005	0.0018 (J)	0.00049 (J)		
2/9/2023				<0.005	<0.005
8/16/2023	<0.005	0.0014 (J)	0.00046 (J)	<0.005	<0.005
2/21/2024				<0.005	
2/22/2024	<0.005	0.0023 (J)	0.00038 (J)		
2/23/2024					<0.005
8/22/2024		0.0017 (J)	0.00057 (J)	<0.005	<0.005
8/23/2024	<0.005				
Mean	0.004161	0.00191	0.00254	0.004125	0.005069
Std. Dev.	0.001778	0.0004049	0.001946	0.001796	0.0002496
Upper Lim.	0.005	0.002133	0.005	0.005	0.0059

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/8/2024 2:41 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-41	YGWC-42	YGWC-43	YGWC-49	PZ-35
Lower Lim.	0.0011	0.001686	0.0005	0.0008	0.005

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/8/2024 2:41 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-37	YGWC-36A	PZ-52D	PZ-51
9/2/2016		0.0006 (J)		
11/14/2016		<0.005		
2/28/2017		<0.005		
5/9/2017		<0.005		
7/13/2017		<0.005		
9/22/2017		<0.005		
9/29/2017		<0.005		
10/6/2017		<0.005		
10/12/2017	0.0078 (J)			
11/21/2017	0.0097 (J)			
1/11/2018	0.0131			
2/20/2018	0.0162			
3/30/2018		<0.005		
4/3/2018	0.015			
6/13/2018		<0.005		
6/29/2018	0.013			
8/6/2018	0.0053 (J)			
9/24/2018	0.0071 (J)			
9/26/2018		<0.005		
3/6/2019		<0.005		
4/4/2019		<0.005		
9/26/2019		0.00048 (J)		
3/25/2020		0.00038 (J)		
9/25/2020	0.0023 (J)			
10/7/2020		0.00086 (J)		
2/9/2021	0.0023 (J)			
2/10/2021		0.00038 (J)		
3/4/2021	0.003 (J)	<0.005		
8/25/2021	0.0068			
9/3/2021		<0.005		
2/10/2022	0.0036 (J)			0.033
2/11/2022		<0.005	0.0011 (J)	
9/1/2022	0.0025 (J)	<0.005	0.0016 (J)	0.018
2/8/2023	0.0022 (J)		0.0026 (J)	
2/9/2023		<0.005		0.0071
8/16/2023		<0.005		0.0056
8/17/2023	0.0027 (J)		0.0031 (J)	
2/21/2024	0.0017 (J)		0.0029 (J)	
2/22/2024				0.0051
2/23/2024		<0.005		
8/21/2024	0.0037 (J)		0.0024 (J)	
8/22/2024		<0.005		0.0048 (J)
Mean	0.006556	0.004108	0.002283	0.01227
Std. Dev.	0.004861	0.001823	0.0007782	0.01132
Upper Lim.	0.008469	0.005	0.003352	0.033
Lower Lim.	0.003331	0.00086	0.001214	0.0048

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/8/2024 2:41 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5
10/16/2018	0.384 (U)				
3/25/2020	0.525 (U)				
9/23/2020		0.0813 (U)		1.2 (U)	
9/24/2020	0.547 (U)				0.668 (U)
2/9/2021	0.866 (U)	0.492 (U)		0.659 (U)	1.07 (U)
3/3/2021	0.377 (U)	0.563 (U)		1.07	
3/4/2021					1.46
8/25/2021				0.0991 (U)	
8/26/2021					0.724 (U)
9/1/2021	0.676 (U)	0.761 (U)			
2/10/2022	0.233 (U)	0 (U)	0.988 (U)	0.702 (U)	1.25 (U)
8/31/2022	0.313 (U)				
9/1/2022		0.959 (U)	0.975 (U)	0.381 (U)	0.811 (U)
2/8/2023		0.0994 (U)		0.239 (U)	0.502 (U)
2/9/2023	0.595 (U)		2.19		
8/16/2023	0.575 (U)		2.77	0.431 (U)	0.858 (U)
8/17/2023		0.686 (U)			
2/21/2024			0.973 (U)		
2/22/2024		0.463 (U)		0.196 (U)	0.606 (U)
2/23/2024	0.566 (U)				
8/21/2024		0.465 (U)			
8/22/2024	0.386 (U)		1.47		
8/23/2024				0.445 (U)	0.826 (U)
Mean	0.5036	0.457	1.561	0.5422	0.8775
Std. Dev.	0.1744	0.314	0.7594	0.3661	0.299
Upper Lim.	0.6404	0.7371	2.628	0.8689	1.144
Lower Lim.	0.3668	0.1768	0.673	0.2156	0.6107

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/8/2024 2:41 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-23S	YGWC-38	YGWC-41	YGWC-42	YGWC-43
6/7/2016	0.303 (U)				
7/28/2016	0.386 (U)				
8/30/2016				2.99	
8/31/2016					0.926 (U)
9/20/2016	1.47				
11/8/2016	0.22 (U)				
11/16/2016				4.01	0.773 (U)
1/16/2017	0.147 (U)				
2/24/2017					0.661 (U)
2/27/2017				2.5	
3/9/2017	0.0892 (U)				
5/2/2017	0.149 (U)				
5/10/2017				2.55	1.27
7/10/2017	0.815 (U)				
7/11/2017				3.94	1.02
10/12/2017		1.24	0.641 (U)	3.57	1.58
11/20/2017		0.342 (U)			
11/21/2017			2.01		
1/11/2018			0.919 (U)		
1/12/2018		1.04			
2/19/2018			1.82		
2/20/2018		1.6 (U)			
3/30/2018	0.659 (U)				
4/3/2018		0.726 (U)	0.911 (U)		
4/4/2018				1.9	1.71
6/12/2018	1.03 (U)				
6/27/2018			0.429 (U)		
6/28/2018		1.06 (U)			
8/7/2018		1.21	0.579 (U)		
9/20/2018				1.94	2.8
9/24/2018		1.52	1.39		
9/27/2018	1.06 (U)				
3/6/2019	0.736 (U)				
4/4/2019	0.474 (U)				
8/21/2019					3.16
8/22/2019		1.97	2.03	1.59	
9/27/2019	0.684 (U)				
10/8/2019		0.751 (U)	0.609 (U)	0.995 (U)	3.65
3/25/2020		0.321 (U)	0.568 (U)	1.17 (U)	3.04
3/26/2020	0.281 (U)				
9/24/2020	0.788 (U)			0.751 (U)	
9/25/2020		0.246 (U)	0.769 (U)		4.75
2/9/2021	0.464 (U)	0.626 (U)			6.38
2/10/2021			0.548 (U)	0.612 (U)	
3/4/2021	0.771 (U)	0.816 (U)	1.23	1.02	6.02
8/25/2021	0.624 (U)			0.978 (U)	
8/26/2021		0.427 (U)	0.356 (U)		
9/27/2021					1.54
2/8/2022			0.594 (U)		3.11
2/10/2022	0.197 (U)	0.791 (U)		0.307 (U)	
9/1/2022	1.23 (U)	0.52 (U)	0.0906 (U)	0.596 (U)	4.16
2/8/2023	0.4 (U)	0.361 (U)	0.852 (U)	0.817	3.73

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/8/2024 2:41 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-23S	YGWC-38	YGWC-41	YGWC-42	YGWC-43
8/16/2023	0.502 (U)	0.617 (U)	1.23	1.08 (U)	4.92
2/21/2024	0.345 (U)				
2/22/2024		0.416 (U)	0.752 (U)	1.05 (U)	4.56
8/21/2024	0.285 (U)				
8/22/2024				0.134 (U)	4.45
8/23/2024		0.22 (U)	1.01 (U)		
Mean	0.5644	0.801	0.9208	1.643	3.058
Std. Dev.	0.3605	0.4861	0.5298	1.182	1.755
Upper Lim.	0.7441	1.069	1.213	2.295	4.026
Lower Lim.	0.3847	0.5328	0.6286	0.9906	2.089

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/8/2024 2:41 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	PZ-35	PZ-37	YGWC-36A	PZ-37D
9/1/2016	1.2				
9/2/2016				0.873 (U)	
9/22/2016				0.667 (U)	
9/29/2016				1.63	
10/6/2016				0.641 (U)	
11/14/2016				0.0451 (U)	
11/15/2016	0.645 (U)				
2/27/2017	0.244 (U)				
2/28/2017				1.34 (U)	
5/9/2017	0.519 (U)			0.309 (U)	
7/13/2017	0.5 (U)			0.618 (U)	
10/11/2017	1.41				
10/12/2017			1.83		
11/21/2017			1.33		
1/11/2018			1.53		
2/20/2018			2.75		
3/30/2018				0.721 (U)	
4/3/2018			1.47		
4/4/2018	0.442 (U)				
6/13/2018				1.04 (U)	
6/29/2018			1.69		
8/6/2018			1.69		
9/20/2018	1.14 (U)				
9/24/2018			2.26		
9/26/2018				0.604 (U)	
10/16/2018		0.363 (U)			
3/6/2019				0.919 (U)	
4/4/2019				1.05 (U)	
9/26/2019	1.16 (U)			0.979 (U)	
3/25/2020	1.2 (U)	0.197 (U)		1.22 (U)	
9/24/2020	1.57 (U)	1.07 (U)			
9/25/2020			1.68 (U)		
10/7/2020				1.58	
2/9/2021	0.137 (U)		1.52		
2/10/2021		0.546 (U)		0.466 (U)	
3/4/2021	0.579 (U)	0.397 (U)	1.49	0.0671 (U)	
8/25/2021			1.41		
9/1/2021	0.686 (U)	0.696 (U)			
9/3/2021				0.622 (U)	3.18
2/8/2022	0.201 (U)				
2/10/2022		1.25 (U)	0.81 (U)		
2/11/2022				0.395 (U)	0.815 (U)
8/31/2022	0.823 (U)	0.326 (U)			
9/1/2022			0.463 (U)	0.189 (U)	2.54
2/8/2023			0.742 (U)		2.37
2/9/2023	0.667 (U)	0.718 (U)		0.326 (U)	
8/16/2023	0.982 (U)	0.643 (U)		0.319 (U)	2.05
8/17/2023			1.9		
2/21/2024	0.595 (U)		0.789 (U)		1.78
2/23/2024		0.824 (U)		0.536 (U)	
8/21/2024			0.763 (U)		3.19
8/22/2024	0.852	0.858 (U)		0.936 (U)	

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/8/2024 2:41 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49	PZ-35	PZ-37	YGWC-36A	PZ-37D
Mean	0.7776	0.6573	1.451	0.7237	2.275
Std. Dev.	0.4044	0.3138	0.5782	0.4323	0.8329
Upper Lim.	1.007	0.9036	1.801	0.9392	3.264
Lower Lim.	0.548	0.4111	1.101	0.5082	1.286

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/8/2024 2:41 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-52D	YGWC-24SB
6/8/2016		1.06
8/1/2016		0.467 (U)
9/20/2016		0.853 (U)
11/8/2016		0.433 (U)
1/17/2017		0.0759 (U)
3/8/2017		0.479 (U)
5/2/2017		0.506 (U)
7/7/2017		0.713 (U)
3/30/2018		0.409 (U)
6/12/2018		0.728 (U)
9/26/2018		0.981
3/5/2019		0.837 (U)
4/9/2019		0.502 (U)
9/26/2019		0.964 (U)
3/26/2020		0.511 (U)
9/23/2020		0.786 (U)
2/9/2021		0.678 (U)
3/3/2021		0.415 (U)
9/1/2021		0.444 (U)
11/4/2021	0.721 (U)	
2/10/2022		0.846 (U)
2/11/2022	1.52	
9/1/2022	0.225 (U)	
2/8/2023	0.218 (U)	
2/10/2023		0.137 (U)
8/16/2023		0.889 (U)
8/17/2023	1.88	
2/21/2024	0.689 (U)	
2/23/2024		0.311 (U)
8/21/2024	0.998 (U)	
8/22/2024		0.103 (U)
Mean	0.893	0.5887
Std. Dev.	0.626	0.2814
Upper Lim.	1.637	0.7323
Lower Lim.	0.1494	0.4451

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 11/8/2024 2:41 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-2	YAMW-3	YAMW-4	YAMW-5	YGWC-23S
6/7/2016					<0.1
7/28/2016					0.03 (J)
9/20/2016					<0.1
11/8/2016					<0.1
1/16/2017					<0.1
3/9/2017					<0.1
5/2/2017					<0.1
7/10/2017					<0.1
10/11/2017					<0.1
3/30/2018					<0.1
6/12/2018					<0.1
9/27/2018					<0.1
3/6/2019					<0.1
4/4/2019					0.049 (J)
9/27/2019					0.12 (J)
3/26/2020					<0.1
9/23/2020	<0.1		<0.1		
9/24/2020				<0.1	<0.1
2/9/2021	<0.1		0.14	<0.1	<0.1
3/3/2021	<0.1		0.14		
3/4/2021				<0.1	<0.1
8/25/2021			<0.1		<0.1
8/26/2021				<0.1	
9/1/2021	<0.1				
2/10/2022	<0.1	<0.1	<0.1	<0.1	<0.1
9/1/2022	0.063 (J)	0.091 (J)	0.078 (J)	0.055 (J)	0.057 (J)
2/8/2023	0.061 (J)		0.079 (J)	0.05 (J)	<0.1
2/9/2023		0.079 (J)			
8/16/2023		0.081 (J)	<0.1	<0.1	<0.1
8/17/2023	<0.1				
2/21/2024		0.066 (J)			<0.1
2/22/2024	0.05 (J)		0.061 (J)	<0.1	
8/21/2024	<0.1				<0.1
8/22/2024		0.075 (J)			
8/23/2024			0.071 (J)	0.05 (J)	
Mean	0.0874	0.082	0.0969	0.0855	0.09446
Std. Dev.	0.02055	0.012	0.02665	0.02339	0.01892
Upper Lim.	0.1	0.08958	0.09815	0.1	0.1
Lower Lim.	0.061	0.06722	0.0599	0.05	0.057

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 11/8/2024 2:41 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-38	YGWC-41	YGWC-42	YGWC-43	YGWC-49
8/30/2016			0.02 (J)		
8/31/2016				0.12 (J)	
9/1/2016					0.09 (J)
11/15/2016					0.16 (J)
11/16/2016			0.07 (J)	0.2 (J)	
2/24/2017				0.21 (J)	
2/27/2017			0.06 (J)		0.06 (J)
5/9/2017					0.05 (J)
5/10/2017			<0.1	0.04 (J)	
7/11/2017			<0.1	0.2 (J)	
7/13/2017					<0.1
10/11/2017					0.14 (J)
10/12/2017	<0.1	<0.1	<0.1	0.1 (J)	
11/20/2017	0.2 (J)				
11/21/2017		<0.1			
1/11/2018		<0.1			
1/12/2018	0.21 (J)				
2/19/2018		<0.1			
2/20/2018	<0.1				
4/3/2018	0.41	<0.1			
4/4/2018			<0.1	<0.1	<0.1
6/27/2018		<0.1			
6/28/2018	0.43				
8/7/2018	<0.1	0.11 (J)			
9/20/2018			0.041 (J)	<0.1	<0.1
9/24/2018	0.034 (J)	<0.1			
3/27/2019	0.24 (J)		<0.1		
3/28/2019		0.1 (J)		0.078 (J)	<0.1
8/21/2019				0.062 (J)	
8/22/2019	<0.1	<0.1	<0.1		
9/26/2019					0.09 (J)
10/9/2019	<0.1	<0.1	<0.1	<0.1	
3/25/2020	<0.1	<0.1	<0.1	0.073 (J)	<0.1
9/24/2020			<0.1		<0.1
9/25/2020	<0.1	<0.1		<0.1	
2/9/2021	<0.1			0.058 (J)	<0.1
2/10/2021		<0.1	<0.1		
3/4/2021	<0.1	<0.1	<0.1	0.063 (J)	<0.1
8/25/2021			<0.1		
8/26/2021	<0.1	<0.1			
9/1/2021					<0.1
9/27/2021				0.1	
2/8/2022		<0.1		0.066 (J)	<0.1
2/10/2022	<0.1		<0.1		
8/31/2022					<0.1
9/1/2022	<0.1	<0.1	0.053 (J)	0.091 (J)	
2/8/2023	<0.1	<0.1	0.08 (J)	0.11	
2/9/2023					<0.1
8/16/2023	<0.1	<0.1	<0.1	0.062 (J)	<0.1
2/21/2024					<0.1
2/22/2024	<0.1	<0.1	<0.1	0.091 (J)	
8/22/2024			<0.1	0.05 (J)	<0.1

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 11/8/2024 2:41 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-38	YGWC-41	YGWC-42	YGWC-43	YGWC-49
8/23/2024	<0.1	<0.1			
Mean	0.142	0.1005	0.08745	0.09882	0.09952
Std. Dev.	0.1005	0.002132	0.02343	0.04742	0.02179
Upper Lim.	0.2	0.11	0.1	0.09935	0.14
Lower Lim.	0.1	0.1	0.08	0.0592	0.09

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 11/8/2024 2:41 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-37	YGWC-36A	PZ-37D	PZ-52D	PZ-51
9/2/2016		0.05 (J)			
11/14/2016		0.18 (J)			
2/28/2017		0.09 (J)			
5/9/2017		0.009 (J)			
7/13/2017		<0.1			
9/22/2017		0.09 (J)			
9/29/2017		<0.1			
10/6/2017		<0.1			
10/11/2017		<0.1			
10/12/2017	<0.1				
11/21/2017	0.26 (J)				
1/11/2018	<0.1				
2/20/2018	0.45				
3/30/2018		<0.1			
4/3/2018	0.31				
6/13/2018		<0.1			
6/29/2018	<0.1				
8/6/2018	0.23 (J)				
9/24/2018	<0.1				
9/26/2018		<0.1			
3/6/2019		<0.1			
4/4/2019		0.043 (J)			
9/26/2019		0.094 (J)			
3/25/2020		<0.1			
9/25/2020	<0.1				
10/7/2020		<0.1			
2/9/2021	<0.1				
2/10/2021		<0.1			
3/4/2021	<0.1	<0.1			
8/25/2021	<0.1				
9/3/2021		<0.1	0.15		
2/10/2022	<0.1				0.1
2/11/2022		<0.1	0.17	0.1	
9/1/2022	<0.1	<0.1	0.35	0.11	0.13
2/8/2023	<0.1		0.2	0.07 (J)	
2/9/2023		<0.1			0.13
8/16/2023		<0.1	0.23		0.097 (J)
8/17/2023	<0.1			0.059 (J)	
2/21/2024	<0.1		0.21	0.053 (J)	
2/22/2024					0.14
2/23/2024		<0.1			
8/21/2024	<0.1		0.25	<0.1	
8/22/2024		<0.1			0.17
Mean	0.1472	0.09446	0.2229	0.082	0.1278
Std. Dev.	0.09969	0.02819	0.0655	0.02427	0.02706
Upper Lim.	0.23	0.1	0.3007	0.1075	0.165
Lower Lim.	0.1	0.094	0.1451	0.04669	0.09066

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 11/8/2024 2:41 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-24SB
6/8/2016	<0.1
8/1/2016	<0.1
9/20/2016	<0.1
11/8/2016	<0.1
1/17/2017	<0.1
3/8/2017	<0.1
5/2/2017	<0.1
7/7/2017	<0.1
10/5/2017	<0.1
3/30/2018	<0.1
6/12/2018	<0.1
9/26/2018	<0.1
3/5/2019	<0.1
4/4/2019	0.033 (J)
9/26/2019	0.098 (J)
3/26/2020	<0.1
9/23/2020	<0.1
2/9/2021	<0.1
3/3/2021	<0.1
9/1/2021	<0.1
2/10/2022	<0.1
2/10/2023	0.051 (J)
8/16/2023	<0.1
2/23/2024	<0.1
8/22/2024	<0.1
Mean	0.09528
Std. Dev.	0.01625
Upper Lim.	0.1
Lower Lim.	0.098

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/8/2024 2:41 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-4	YAMW-5	YGWC-23S
6/7/2016					0.00044 (J)
7/28/2016					<0.001
9/20/2016					<0.001
11/8/2016					<0.001
1/16/2017					<0.001
3/9/2017					<0.001
5/2/2017					<0.001
7/10/2017					<0.001
3/30/2018					<0.001
3/6/2019					<0.001
4/4/2019					<0.001
9/26/2019	<0.001				
9/27/2019					0.00013 (J)
3/25/2020	<0.001				
3/26/2020					<0.001
9/23/2020		<0.001	0.00028 (J)		
9/24/2020	<0.001			0.00011 (J)	4.6E-05 (J)
2/9/2021	0.00019 (J)	0.00011 (J)	0.00054 (J)	7.3E-05 (J)	<0.001
3/3/2021	<0.001	8E-05 (J)	9.6E-05 (J)		
3/4/2021				4.1E-05 (J)	0.00021 (J)
8/25/2021			<0.001		<0.001
8/26/2021				<0.001	
9/1/2021	<0.001	<0.001			
2/10/2022	<0.001	<0.001	<0.001	<0.001	<0.001
8/31/2022	<0.001				
9/1/2022		<0.001	<0.001	<0.001	<0.001
2/8/2023		<0.001	<0.001	<0.001	<0.001
2/9/2023	<0.001				
8/16/2023	<0.001		<0.001	<0.001	<0.001
8/17/2023		<0.001			
2/21/2024					<0.001
2/22/2024		<0.001	<0.001	<0.001	
2/23/2024	<0.001				
8/21/2024		<0.001			<0.001
8/22/2024	<0.001				
8/23/2024			<0.001	<0.001	
Mean	0.0009325	0.000819	0.0007916	0.0007224	0.000862
Std. Dev.	0.0002338	0.0003816	0.0003516	0.0004473	0.0003138
Upper Lim.	0.001	0.001	0.001	0.001	0.001
Lower Lim.	0.00019	0.00011	0.00028	7.3E-05	0.00044

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/8/2024 2:41 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-38	YGWC-41	YGWC-42	YGWC-43	YGWC-49
8/30/2016			<0.001		
8/31/2016				<0.001	
9/1/2016					<0.001
11/15/2016					<0.001
11/16/2016			0.0002 (J)	<0.001	
2/24/2017				<0.001	
2/27/2017			<0.001		<0.001
5/9/2017					<0.001
5/10/2017			9E-05 (J)	8E-05 (J)	
7/11/2017			<0.001	<0.001	
7/13/2017					<0.001
10/11/2017					<0.001
10/12/2017	0.0001 (J)	<0.001	<0.001	<0.001	
11/20/2017	0.0001 (J)				
11/21/2017		<0.001			
1/11/2018		7E-05 (J)			
1/12/2018	0.0001 (J)				
2/19/2018		<0.001			
2/20/2018	<0.001				
4/3/2018	<0.001	<0.001			
4/4/2018			<0.001	<0.001	<0.001
6/27/2018		0.0011 (J)			
6/28/2018	<0.001				
8/7/2018	<0.001	<0.001			
9/20/2018			<0.001	<0.001	<0.001
9/24/2018	<0.001	<0.001			
8/21/2019				<0.001	
8/22/2019	<0.001	6.7E-05 (J)	<0.001		
9/26/2019					<0.001
10/9/2019	<0.001	0.00012 (J)	<0.001	<0.001	
3/25/2020	<0.001	<0.001	4.7E-05 (J)	7.5E-05 (J)	5.9E-05 (J)
9/24/2020			<0.001		<0.001
9/25/2020	<0.001	<0.001		<0.001	
2/9/2021	<0.001			<0.001	<0.001
2/10/2021		0.0002 (J)	5.4E-05 (J)		
3/4/2021	<0.001	<0.001	<0.001	<0.001	<0.001
8/25/2021			<0.001		
8/26/2021	<0.001	<0.001			
9/1/2021					<0.001
9/27/2021				<0.001	
2/8/2022		<0.001		<0.001	<0.001
2/10/2022	<0.001		<0.001		
8/31/2022					<0.001
9/1/2022	<0.001	<0.001	<0.001	<0.001	
2/8/2023	<0.001	<0.001	<0.001	<0.001	
2/9/2023					<0.001
8/16/2023	<0.001	<0.001	<0.001	<0.001	<0.001
2/21/2024					<0.001
2/22/2024	<0.001	<0.001	<0.001	<0.001	
8/22/2024			<0.001	<0.001	<0.001
8/23/2024	<0.001	<0.001			
Mean	0.0008714	0.000836	0.0008281	0.0009121	0.000953

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/8/2024 2:41 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-38	YGWC-41	YGWC-42	YGWC-43	YGWC-49
Std. Dev.	0.0003227	0.0003602	0.0003641	0.0002775	0.0002104
Upper Lim.	0.001	0.0011	0.001	0.001	0.001
Lower Lim.	0.0001	0.0002	0.0002	8E-05	5.9E-05

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/8/2024 2:41 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-52D	PZ-51
9/2/2016			0.0017 (J)		
11/14/2016			0.0002 (J)		
2/28/2017			0.0003 (J)		
5/9/2017			0.0004 (J)		
7/13/2017			0.0004 (J)		
9/22/2017			0.0003 (J)		
9/29/2017			0.0002 (J)		
10/6/2017			0.0002 (J)		
10/12/2017		0.0002 (J)			
11/21/2017		0.0002 (J)			
1/11/2018		0.0001 (J)			
2/20/2018		<0.001			
3/30/2018			<0.001		
4/3/2018		<0.001			
6/29/2018		<0.001			
8/6/2018		<0.001			
9/24/2018		<0.001			
3/6/2019			<0.001		
4/4/2019			0.00037 (J)		
9/26/2019	<0.001		0.00023 (J)		
3/25/2020	<0.001		0.0001 (J)		
9/24/2020	<0.001				
9/25/2020		8.5E-05 (J)			
10/7/2020			0.00077 (J)		
2/9/2021		8.8E-05 (J)			
2/10/2021	8.7E-05 (J)		0.00051 (J)		
3/4/2021	0.00015 (J)	<0.001	0.00025 (J)		
8/25/2021		<0.001			
9/1/2021	<0.001				
9/3/2021			<0.001		
2/10/2022	<0.001	<0.001			<0.001
2/11/2022			<0.001	0.0031	
8/31/2022	<0.001				
9/1/2022		<0.001	<0.001	<0.001	<0.001
2/8/2023		<0.001		<0.001	
2/9/2023	<0.001		<0.001		<0.001
8/16/2023	<0.001		<0.001		<0.001
8/17/2023		<0.001		0.0014	
2/21/2024		<0.001		<0.001	
2/22/2024					<0.001
2/23/2024	<0.001		<0.001		
8/21/2024		0.0002 (J)		<0.001	
8/22/2024	0.0014		<0.001		0.00019 (J)
Mean	0.0008864	0.0007152	0.0006491	0.001417	0.000865
Std. Dev.	0.0003767	0.0004158	0.0004229	0.00084	0.0003307
Upper Lim.	0.0014	0.001	0.0004375	0.0031	0.001
Lower Lim.	0.00015	0.0002	0.0001776	0.001	0.00019

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/8/2024 2:41 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-24SB
6/8/2016	<0.001
8/1/2016	<0.001
9/20/2016	<0.001
11/8/2016	<0.001
1/17/2017	<0.001
3/8/2017	<0.001
5/2/2017	<0.001
7/7/2017	<0.001
3/30/2018	<0.001
3/5/2019	<0.001
4/4/2019	<0.001
9/26/2019	<0.001
3/26/2020	5.3E-05 (J)
9/23/2020	<0.001
2/9/2021	0.00036 (J)
3/3/2021	<0.001
9/1/2021	<0.001
2/10/2022	<0.001
2/10/2023	<0.001
8/16/2023	<0.001
2/23/2024	0.00029 (J)
8/22/2024	<0.001
Mean	0.0008956
Std. Dev.	0.0002735
Upper Lim.	0.001
Lower Lim.	0.00036

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/8/2024 2:41 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-3	YAMW-4	YAMW-5	YGWC-23S
6/7/2016					<0.03
7/28/2016					0.0019 (J)
9/20/2016					0.0021 (J)
11/8/2016					0.0024 (J)
1/16/2017					0.0022 (J)
3/9/2017					0.0025 (J)
5/2/2017					0.0019 (J)
7/10/2017					0.0018 (J)
3/30/2018					0.0039 (J)
6/12/2018					0.0017 (J)
9/27/2018					0.0017 (J)
10/16/2018	0.0052 (J)				
3/6/2019					0.0025 (J)
4/4/2019					0.0018 (J)
9/26/2019	<0.03				
9/27/2019					0.0017 (J)
3/25/2020	0.0011 (J)				
3/26/2020					0.0021 (J)
9/23/2020			0.03 (J)		
9/24/2020	0.011 (J)			0.013 (J)	0.0035 (J)
2/9/2021	0.021 (J)		0.018 (J)	0.016 (J)	0.0026 (J)
3/3/2021	0.022 (J)		0.02 (J)		
3/4/2021				0.016 (J)	0.0026 (J)
8/25/2021			0.033		0.0026 (J)
8/26/2021				0.015 (J)	
9/1/2021	0.013 (J)				
11/17/2021		0.046 (o)			
12/9/2021		0.042 (R)			
2/10/2022	0.014 (J)	0.054	0.036	0.015 (J)	0.0029 (J)
8/31/2022	0.021 (J)				
9/1/2022		0.041	0.032	0.013 (J)	0.0025 (J)
2/8/2023			0.033	0.014 (J)	0.0028 (J)
2/9/2023	0.019 (J)	0.048			
8/16/2023	0.016 (J)	0.04	0.033	0.014 (J)	0.0024 (J)
2/21/2024		0.047			0.0024 (J)
2/22/2024			0.036	0.014 (J)	
2/23/2024	0.017 (J)				
8/21/2024					0.0023 (J)
8/22/2024	0.016 (J)	0.048			
8/23/2024			0.035	0.014 (J)	
Mean	0.01472	0.04571	0.0306	0.0144	0.002872
Std. Dev.	0.006139	0.00499	0.006398	0.001075	0.002583
Upper Lim.	0.01928	0.05164	0.03548	0.01536	0.0026
Lower Lim.	0.01015	0.03979	0.02662	0.01344	0.0019

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/8/2024 2:41 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-38	YGWC-41	YGWC-42	YGWC-43	YGWC-49
8/30/2016			0.0257 (J)		
8/31/2016				0.006 (J)	
9/1/2016					0.0034 (J)
11/15/2016					0.0044 (J)
11/16/2016			0.0221 (J)	0.0095 (J)	
2/24/2017				0.0104 (J)	
2/27/2017			0.0208 (J)		0.0036 (J)
5/9/2017					0.0038 (J)
5/10/2017			0.0316 (J)	0.0123 (J)	
7/11/2017			0.0281 (J)	0.0131 (J)	
7/13/2017					0.0036 (J)
10/11/2017					0.0036 (J)
10/12/2017	0.0095 (J)	0.004 (J)	0.0331 (J)	0.013 (J)	
11/20/2017	0.0083 (J)				
11/21/2017		0.0043 (J)			
1/11/2018		0.0044 (J)			
1/12/2018	0.0089 (J)				
2/19/2018		<0.03			
2/20/2018	0.0082 (J)				
4/3/2018	0.0097 (J)	0.0047 (J)			
4/4/2018			0.037 (J)	0.016 (J)	0.0039 (J)
6/27/2018		0.0042 (J)			
6/28/2018	0.0093 (J)				
8/7/2018	0.0092 (J)	0.0038 (J)			
9/20/2018			0.049 (J)	0.019 (J)	0.0036 (J)
9/24/2018	0.0083 (J)	0.0037 (J)			
8/21/2019				0.015 (J)	
8/22/2019	0.0082 (J)	0.0035 (J)	0.047		
9/26/2019					0.0036 (J)
10/9/2019	0.0081 (J)	0.0032 (J)	0.037	0.018 (J)	
3/25/2020	0.0081 (J)	0.0029 (J)	0.045	0.016 (J)	0.0037 (J)
9/24/2020			0.05		0.0037 (J)
9/25/2020	0.0069 (J)	0.0025 (J)		0.018 (J)	
2/9/2021	0.0067 (J)			0.024 (J)	0.0038 (J)
2/10/2021		0.0021 (J)	0.058		
3/4/2021	0.0067 (J)	0.0021 (J)	0.059	0.025 (J)	0.0035 (J)
8/25/2021			0.053		
8/26/2021	0.007 (J)	0.0021 (J)			
9/1/2021					0.0036 (J)
9/27/2021				0.0092 (J)	
2/8/2022		0.0023 (J)		0.016 (J)	0.0036 (J)
2/10/2022	0.0068 (J)		0.052		
8/31/2022					0.0031 (J)
9/1/2022	0.006 (J)	0.0019 (J)	0.054	0.014 (J)	
2/8/2023	0.0058 (J)	0.0021 (J)	0.046	0.015 (J)	
2/9/2023					0.0033 (J)
8/16/2023	0.0058 (J)	0.0021 (J)	0.054	0.015 (J)	0.003 (J)
2/21/2024					0.0029 (J)
2/22/2024	0.0058 (J)	0.0026 (J)	0.049	0.015 (J)	
8/22/2024			0.051	0.015 (J)	0.0029 (J)
8/23/2024	0.0052 (J)	0.002 (J)			
Mean	0.007548	0.003595	0.05225	0.01498	0.00353

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/8/2024 2:41 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-38	YGWC-41	YGWC-42	YGWC-43	YGWC-49
Std. Dev.	0.001387	0.002776	0.003845	0.004472	0.00036
Upper Lim.	0.008313	0.0042	0.05633	0.01744	0.003734
Lower Lim.	0.006783	0.0021	0.04817	0.01251	0.003326

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/8/2024 2:41 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-37D	PZ-52D
9/2/2016			0.0029 (J)		
11/14/2016			0.0044 (J)		
2/28/2017			0.0038 (J)		
5/9/2017			0.0057 (J)		
7/13/2017			0.007 (J)		
9/22/2017			0.0067 (J)		
9/29/2017			0.0064 (J)		
10/6/2017			0.0065 (J)		
10/12/2017		0.0271 (J)			
11/21/2017		0.0255 (J)			
1/11/2018		0.0271 (J)			
2/20/2018		<0.03			
3/30/2018			0.0061 (J)		
4/3/2018		0.027 (J)			
6/13/2018			0.0065 (J)		
6/29/2018		0.032 (J)			
8/6/2018		0.033 (J)			
9/24/2018		0.028 (J)			
9/26/2018			0.0063 (J)		
10/16/2018	0.0011 (J)				
3/6/2019			0.0057 (J)		
4/4/2019			0.0058 (J)		
9/26/2019	<0.03		0.0041 (J)		
3/25/2020	0.011 (J)		0.0032 (J)		
9/24/2020	0.001 (J)				
9/25/2020		0.028 (J)			
10/7/2020			0.0014 (J)		
2/9/2021		0.024 (J)			
2/10/2021	0.0012 (J)		0.0011 (J)		
3/4/2021	0.0015 (J)	0.028 (J)	<0.03		
8/25/2021		0.023 (J)			
9/1/2021	0.0019 (J)				
9/3/2021			0.00086 (J)	0.013 (J)	
2/10/2022	0.0021 (J)	0.017 (J)			
2/11/2022			0.00093 (J)	0.0087 (J)	0.015 (J)
8/31/2022	0.0025 (J)				
9/1/2022		0.016 (J)	0.00089 (J)	0.0044 (J)	0.023 (J)
2/8/2023		0.013 (J)		0.0088 (J)	0.025 (J)
2/9/2023	0.0026 (J)		0.001 (J)		
8/16/2023	0.0026 (J)		0.0014 (J)	0.0095 (J)	
8/17/2023		0.016 (J)			0.029 (J)
2/21/2024		0.015 (J)		0.009 (J)	0.027 (J)
2/23/2024	0.0032 (J)		0.0017 (J)		
8/21/2024		0.017 (J)		0.0068 (J)	0.029 (J)
8/22/2024	0.0028 (J)		0.002 (J)		
Mean	0.003731	0.02287	0.002628	0.0086	0.02467
Std. Dev.	0.004251	0.006465	0.004363	0.002622	0.005279
Upper Lim.	0.011	0.02719	0.002	0.01171	0.03192
Lower Lim.	0.0011	0.01964	0.00089	0.005485	0.01741

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/8/2024 2:41 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-51
2/10/2022	0.006 (J)
9/1/2022	0.0051 (J)
2/9/2023	0.0045 (J)
8/16/2023	0.0048 (J)
2/22/2024	0.005 (J)
8/22/2024	0.0053 (J)
Mean	0.005117
Std. Dev.	0.0005115
Upper Lim.	0.005819
Lower Lim.	0.004414

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 11/8/2024 2:41 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-3	YGWC-23S	YGWC-38	YGWC-41
6/7/2016			9.8E-05 (J)		
7/28/2016			<0.0002		
9/20/2016			<0.0002		
11/8/2016			<0.0002		
1/16/2017			<0.0002		
3/9/2017			<0.0002		
5/2/2017			<0.0002		
7/10/2017			<0.0002		
10/12/2017				<0.0002	<0.0002
11/20/2017				8E-05 (J)	
11/21/2017					6E-05 (J)
1/11/2018					<0.0002
1/12/2018				<0.0002	
2/19/2018					<0.0002
2/20/2018				<0.0002	
3/30/2018			<0.0002		
4/3/2018				<0.0002	<0.0002
6/27/2018					<0.0002
6/28/2018				3.7E-05 (J)	
8/7/2018				<0.0002	<0.0002
9/24/2018				<0.0002	<0.0002
9/27/2018			<0.0002		
3/6/2019			<0.0002		
8/22/2019				<0.0002	<0.0002
9/24/2020	<0.0002				
2/9/2021	<0.0002		0.00015 (J)	<0.0002	
2/10/2021					<0.0002
3/3/2021	<0.0002				
3/4/2021			<0.0002	<0.0002	<0.0002
8/25/2021			<0.0002		
8/26/2021				<0.0002	<0.0002
9/1/2021	<0.0002				
2/8/2022					<0.0002
2/10/2022	<0.0002	<0.0002	<0.0002	<0.0002	
8/31/2022	<0.0002				
9/1/2022		0.00016 (J)	<0.0002	<0.0002	<0.0002
2/8/2023			<0.0002	<0.0002	<0.0002
2/9/2023	<0.0002	<0.0002			
8/16/2023	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/21/2024		<0.0002	<0.0002		
2/22/2024				<0.0002	<0.0002
2/23/2024	<0.0002				
8/21/2024			<0.0002		
8/22/2024	0.00014 (J)	<0.0002			
8/23/2024				<0.0002	<0.0002
Mean	0.000194	0.0001933	0.0001924	0.0001843	0.0001922
Std. Dev.	1.897E-05	1.633E-05	2.487E-05	4.635E-05	3.3E-05
Upper Lim.	0.0002	0.0002	0.0002	0.0002	0.0002
Lower Lim.	0.0002	0.00016	0.00015	8E-05	6E-05

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 11/8/2024 2:41 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-42	YGWC-43	YGWC-49	PZ-37
8/30/2016	<0.0002			
8/31/2016		<0.0002		
9/1/2016			<0.0002	
11/15/2016			<0.0002	
11/16/2016	<0.0002	<0.0002		
2/24/2017		<0.0002		
2/27/2017	<0.0002		<0.0002	
5/9/2017			<0.0002	
5/10/2017	<0.0002	<0.0002		
7/11/2017	<0.0002	<0.0002		
7/13/2017			<0.0002	
10/11/2017			<0.0002	
10/12/2017	<0.0002	<0.0002		<0.0002
11/21/2017				6E-05 (J)
1/11/2018				<0.0002
2/20/2018				<0.0002
4/3/2018				<0.0002
4/4/2018	<0.0002	<0.0002	<0.0002	
6/29/2018				<0.0002
8/6/2018				<0.0002
9/20/2018	4.8E-05 (J)	5.2E-05 (J)	6.1E-05 (J)	
9/24/2018				<0.0002
8/21/2019		<0.0002		
8/22/2019	<0.0002			
9/25/2020				<0.0002
2/9/2021		<0.0002	0.00014 (J)	<0.0002
2/10/2021	<0.0002			
3/4/2021	<0.0002	<0.0002	<0.0002	<0.0002
8/25/2021	<0.0002			<0.0002
9/1/2021			<0.0002	
9/27/2021		9E-05 (JB)		
2/8/2022		<0.0002	<0.0002	
2/10/2022	<0.0002			<0.0002
8/31/2022			<0.0002	
9/1/2022	<0.0002	<0.0002		0.00019 (J)
2/8/2023	<0.0002	<0.0002		<0.0002
2/9/2023			<0.0002	
8/16/2023	<0.0002	<0.0002	<0.0002	
8/17/2023				<0.0002
2/21/2024			<0.0002	<0.0002
2/22/2024	<0.0002	<0.0002		
8/21/2024				<0.0002
8/22/2024	<0.0002	<0.0002	<0.0002	
Mean	0.0001916	0.0001857	0.0001883	0.0001917
Std. Dev.	3.583E-05	4.222E-05	3.587E-05	3.294E-05
Upper Lim.	0.0002	0.0002	0.0002	0.0002
Lower Lim.	4.8E-05	9E-05	0.00014	0.00019

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 11/8/2024 2:41 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YGWC-23S
6/7/2016					<0.01
7/28/2016					<0.01
9/20/2016					<0.01
11/8/2016					<0.01
1/16/2017					<0.01
3/9/2017					<0.01
5/2/2017					<0.01
7/10/2017					<0.01
3/30/2018					<0.01
3/6/2019					<0.01
3/25/2020	<0.01				
3/26/2020					<0.01
9/23/2020		<0.01		0.0068 (J)	
9/24/2020	0.0022 (J)				<0.01
2/9/2021	0.0038 (J)	<0.01		0.0068 (J)	<0.01
3/3/2021	0.0037 (J)	<0.01		0.0049 (J)	
3/4/2021					<0.01
8/25/2021				0.0081 (J)	<0.01
9/1/2021	0.0014 (J)	<0.01			
2/10/2022	0.00089 (J)	<0.01	0.0036 (J)	0.0076 (J)	<0.01
8/31/2022	<0.01				
9/1/2022		<0.01	0.0057 (J)	0.0074 (J)	<0.01
2/8/2023		<0.01		0.0076 (J)	<0.01
2/9/2023	<0.01		0.0067 (J)		
8/16/2023	<0.01		0.0084 (J)	0.0074 (J)	<0.01
8/17/2023		<0.01			
2/21/2024			0.0041 (J)		<0.01
2/22/2024		<0.01		0.0071 (J)	
2/23/2024	<0.01				
8/21/2024		0.0017 (J)			0.0016 (J)
8/22/2024	<0.01		0.0047 (J)		
8/23/2024				0.0074 (J)	
Mean	0.006545	0.00917	0.005533	0.00711	0.0096
Std. Dev.	0.004057	0.002625	0.001794	0.0008685	0.001833
Upper Lim.	0.01	0.01	0.007998	0.007782	0.01
Lower Lim.	0.0014	0.01	0.003069	0.0065	0.0016

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 11/8/2024 2:41 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-41	YGWC-42	YGWC-43	YGWC-49	PZ-35
8/30/2016		0.0019 (J)			
8/31/2016			0.0022 (J)		
9/1/2016				<0.01	
11/15/2016				<0.01	
11/16/2016		0.0027 (J)	<0.01		
2/24/2017			<0.01		
2/27/2017		0.0031 (J)		0.0007 (J)	
5/9/2017				<0.01	
5/10/2017		0.0017 (J)	<0.01		
7/11/2017		0.0014 (J)	<0.01		
7/13/2017				<0.01	
10/11/2017				<0.01	
10/12/2017	<0.01	<0.01	<0.01		
11/21/2017	<0.01				
1/11/2018	<0.01				
2/19/2018	<0.01				
4/3/2018	<0.01				
4/4/2018		<0.01	<0.01	<0.01	
6/27/2018	<0.01				
8/7/2018	<0.01				
9/20/2018		<0.01	<0.01	<0.01	
9/24/2018	<0.01				
8/21/2019			0.0012 (J)		
8/22/2019	<0.01	<0.01			
10/9/2019	<0.01	<0.01	0.0012 (J)		
3/25/2020	<0.01	<0.01	0.0015 (J)	<0.01	0.0019 (J)
9/24/2020		0.00091 (J)		<0.01	<0.01
9/25/2020	<0.01		0.0011 (J)		
2/9/2021			0.0012 (J)	<0.01	
2/10/2021	<0.01	0.00094 (J)			<0.01
3/4/2021	<0.01	0.00085 (J)	0.0011 (J)	<0.01	<0.01
8/25/2021		0.00078 (J)			
8/26/2021	<0.01				
9/1/2021				<0.01	<0.01
9/27/2021			0.0062 (J)		
2/8/2022	<0.01		0.002 (J)	<0.01	
2/10/2022		0.0008 (J)			<0.01
8/31/2022				<0.01	<0.01
9/1/2022	<0.01	0.00079 (J)	0.0014 (J)		
2/8/2023	<0.01	0.00081 (J)	0.0016 (J)		
2/9/2023				<0.01	<0.01
8/16/2023	<0.01	0.00096 (J)	0.0019 (J)	<0.01	<0.01
2/21/2024				<0.01	
2/22/2024	<0.01	0.00075 (J)	0.0016 (J)		
2/23/2024					<0.01
8/22/2024		0.00071 (J)	0.0013 (J)	<0.01	<0.01
8/23/2024	0.0019 (J)				
Mean	0.009614	0.003767	0.004548	0.009511	0.009264
Std. Dev.	0.001768	0.004089	0.004089	0.002134	0.002442
Upper Lim.	0.01	0.01	0.01	0.01	0.01
Lower Lim.	0.0019	0.0008	0.0013	0.0007	0.01

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 11/8/2024 2:41 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-37	YGWC-36A	PZ-37D	PZ-52D
9/2/2016		0.0027 (J)		
11/14/2016		0.0071 (J)		
2/28/2017		0.0038 (J)		
5/9/2017		0.0025 (J)		
7/13/2017		0.0014 (J)		
9/22/2017		<0.01		
9/29/2017		<0.01		
10/6/2017		<0.01		
10/12/2017	0.0022 (J)			
11/21/2017	0.0016 (J)			
1/11/2018	0.0015 (J)			
2/20/2018	<0.01			
3/30/2018		<0.01		
4/3/2018	<0.01			
6/29/2018	0.0021 (J)			
8/6/2018	<0.01			
9/24/2018	<0.01			
3/6/2019		<0.01		
3/25/2020		<0.01		
9/25/2020	0.0016 (J)			
10/7/2020		0.0015 (J)		
2/9/2021	0.0016 (J)			
2/10/2021		<0.01		
3/4/2021	0.0024 (J)	<0.01		
8/25/2021	0.0011 (J)			
9/3/2021		<0.01	0.0018 (J)	
2/10/2022	<0.01			
2/11/2022		<0.01	0.0037 (J)	0.011
9/1/2022	<0.01	<0.01	0.0059 (J)	0.0084 (J)
2/8/2023	<0.01		0.0024 (J)	0.005 (J)
2/9/2023		<0.01		
8/16/2023		<0.01	0.004 (J)	
8/17/2023	<0.01			0.003 (J)
2/21/2024	<0.01		0.004 (J)	0.0025 (J)
2/23/2024		<0.01		
8/21/2024	<0.01		0.008 (J)	0.0021 (J)
8/22/2024		<0.01		
Mean	0.006339	0.008048	0.004257	0.005333
Std. Dev.	0.004221	0.003336	0.002107	0.003621
Upper Lim.	0.01	0.01	0.00676	0.01031
Lower Lim.	0.0016	0.0038	0.001754	0.0003593

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/8/2024 2:41 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YAMW-1	YAMW-2	YAMW-3	YAMW-4	YAMW-5
10/16/2018	0.0019 (J)				
9/26/2019	<0.005				
1/15/2020		<0.005			0.045
1/16/2020			<0.005	0.0018 (J)	
3/25/2020	<0.005				
9/23/2020		<0.005		0.016	
9/24/2020	<0.005				0.026
2/9/2021	<0.005	<0.005		<0.005	0.06
3/3/2021	<0.005	<0.005		<0.005	
3/4/2021					0.061
8/25/2021				0.019	
8/26/2021					0.055
9/1/2021	0.0027 (J)	<0.005			
2/10/2022	0.0034 (J)	<0.005	<0.005	0.019	0.057
8/31/2022	0.0041 (J)				
9/1/2022		<0.005	<0.005	0.023	0.048
2/8/2023		<0.005		0.017	0.052
2/9/2023	0.0051		<0.005		
8/16/2023	0.0046 (J)		0.0075	0.019	0.054
8/17/2023		<0.005			
2/21/2024			0.023		
2/22/2024		<0.005		0.015	0.053
2/23/2024	0.0056				
8/21/2024		0.0012 (J)			
8/22/2024	0.0079		0.028		
8/23/2024				0.014	0.054
Mean	0.004638	0.004655	0.01121	0.01398	0.05136
Std. Dev.	0.001458	0.001146	0.009907	0.006934	0.009615
Upper Lim.	0.005178	0.005	0.028	0.01805	0.05851
Lower Lim.	0.002822	0.005	0.005	0.005341	0.04496

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/8/2024 2:41 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-23S	YGWC-38	YGWC-41	YGWC-42	YGWC-49
6/7/2016	0.037				
7/28/2016	0.0385				
8/30/2016				0.0711	
9/1/2016					0.0086 (J)
9/20/2016	0.0464				
11/8/2016	0.0521				
11/15/2016					0.0056 (J)
11/16/2016				0.0313	
1/16/2017	0.0469				
2/27/2017				0.0316	0.0098 (J)
3/9/2017	0.0437				
5/2/2017	0.0395				
5/9/2017					0.0076 (J)
5/10/2017				0.053	
7/10/2017	0.0386				
7/11/2017				0.0697	
7/13/2017					0.0093 (J)
10/11/2017					0.0089 (J)
10/12/2017		0.265	0.0191	0.0594	
11/20/2017		0.246			
11/21/2017			0.0687		
1/11/2018			0.069		
1/12/2018		0.249			
2/19/2018			0.071		
2/20/2018		0.253			
3/30/2018	0.028				
4/3/2018		0.23	0.067		
4/4/2018				0.055	<0.01
6/12/2018	0.026				
6/27/2018			0.066		
6/28/2018		0.23			
8/7/2018		0.2	0.061		
9/20/2018				0.041	0.0081 (J)
9/24/2018		0.2	0.061		
9/27/2018	0.023				
3/6/2019	0.019				
4/4/2019	0.017				
8/22/2019		0.14	0.058	0.047	
9/26/2019					0.0077 (J)
9/27/2019	0.018				
10/9/2019		0.12	0.052	0.042	
3/25/2020		0.099	0.057	0.046	0.0085 (J)
3/26/2020	0.024				
9/24/2020	0.031			0.046	0.0091 (J)
9/25/2020		0.076	0.046		
2/9/2021	0.032	0.073			0.0079 (J)
2/10/2021			0.033	0.043	
3/4/2021	0.037	0.076	0.037	0.048	0.0058
8/25/2021	0.032			0.043	
8/26/2021		0.06	0.027		
9/1/2021					0.0066
2/8/2022			0.031		0.0075

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/8/2024 2:41 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-23S	YGWC-38	YGWC-41	YGWC-42	YGWC-49
2/10/2022	0.039	0.064		0.044	
8/31/2022					0.0062
9/1/2022	0.036	0.055	0.027	0.035	
2/8/2023	0.035	0.056	0.027	0.041	
2/9/2023					0.0054
8/16/2023	0.03	0.053	0.023	0.019	0.0062
2/21/2024	0.031				0.0055
2/22/2024		0.048	0.021	0.037	
8/21/2024	0.03				
8/22/2024				0.038	0.0056
8/23/2024		0.045	0.021		
Mean	0.03323	0.05713	0.0449	0.04481	0.007245
Std. Dev.	0.009119	0.009746	0.0191	0.01221	0.001513
Upper Lim.	0.03777	0.06746	0.05543	0.05155	0.008104
Lower Lim.	0.02868	0.04679	0.03436	0.03808	0.006386

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/8/2024 2:41 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-35	PZ-37	YGWC-36A	PZ-52D	PZ-51
9/2/2016			0.0012 (J)		
11/14/2016			<0.005		
2/28/2017			0.0017 (J)		
5/9/2017			0.0018 (J)		
7/13/2017			0.0031 (J)		
9/22/2017			0.0024 (J)		
9/29/2017			0.002 (J)		
10/6/2017			<0.005		
10/12/2017		0.234			
11/21/2017		0.225			
1/11/2018		0.168			
2/20/2018		0.315			
3/30/2018			<0.005		
4/3/2018		0.28			
6/13/2018			0.0024 (J)		
6/29/2018		0.26			
8/6/2018		0.21			
9/24/2018		0.33			
9/26/2018			0.0037 (J)		
10/16/2018	<0.005				
3/6/2019			0.0033 (J)		
4/4/2019			0.0029 (J)		
9/26/2019	<0.005		0.0019 (J)		
3/25/2020	<0.005		0.0024 (J)		
9/24/2020	<0.005				
9/25/2020		0.32			
10/7/2020			<0.005		
2/9/2021		0.28			
2/10/2021	<0.005		<0.005		
3/4/2021	<0.005	0.27	<0.005		
8/25/2021		0.2			
9/1/2021	0.0016 (J)				
9/3/2021			<0.005		
2/10/2022	0.003 (J)	0.2			0.029
2/11/2022			<0.005	0.0025 (J)	
8/31/2022	0.0033 (J)				
9/1/2022		0.17	<0.005	0.0041 (J)	0.026
2/8/2023		0.16		0.0057	
2/9/2023	0.0041 (J)		0.0027 (J)		0.028
8/16/2023	0.0039 (J)		0.0032 (J)		0.024
8/17/2023		0.15		0.011	
2/21/2024		0.13		0.0099	
2/22/2024					0.024
2/23/2024	0.0035 (J)		0.005 (J)		
8/21/2024		0.12		0.01	
8/22/2024	0.0038 (J)		0.0054		0.022
Mean	0.004092	0.2234	0.003604	0.0072	0.0255
Std. Dev.	0.001059	0.06648	0.0014	0.003564	0.002665
Upper Lim.	0.005	0.2637	0.005	0.0121	0.02916
Lower Lim.	0.003	0.1832	0.0024	0.002304	0.02184

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 11/8/2024 2:41 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	YGWC-49
9/1/2016	<0.001
11/15/2016	<0.001
2/27/2017	9E-05 (J)
5/9/2017	<0.001
7/13/2017	<0.001
10/11/2017	<0.001
4/4/2018	<0.001
9/20/2018	<0.001
9/26/2019	<0.001
3/25/2020	<0.001
9/24/2020	<0.001
2/9/2021	<0.001
2/8/2022	<0.001
8/31/2022	<0.001
2/9/2023	<0.001
8/16/2023	<0.001
2/21/2024	<0.001
8/22/2024	<0.001
Mean	0.0009494
Std. Dev.	0.0002145
Upper Lim.	0.001
Lower Lim.	9E-05

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/8/2024 2:41 PM View: Appendix IV Nonparametric
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

	PZ-51
2/10/2022	0.964 (U)
9/1/2022	0.389 (U)
2/9/2023	0.467 (U)
8/16/2023	0.924 (U)
2/22/2024	0.894 (U)
8/22/2024	0.966
Mean	0.7673
Std. Dev.	0.2654
Upper Lim.	0.966
Lower Lim.	0.389

FIGURE K.

Appendix IV Trend Tests - Significant Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 10/17/2024, 10:41 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Lithium (mg/L)	**YGWA-18I (bg)**	**-0.000215**	**-154**	**-90**	**Yes**	**26**	**7.692**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**YGWA-39 (bg)**	**0.0009005**	**122**	**71**	**Yes**	**22**	**4.545**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**YGWC-42**	**0.003986**	**129**	**66**	**Yes**	**21**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**YGWA-47 (bg)**	**-0.000209**	**-119**	**-66**	**Yes**	**21**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**YGWA-1D (bg)**	**-0.0007084**	**-110**	**-90**	**Yes**	**26**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**YGWA-3D (bg)**	**0.0005738**	**158**	**90**	**Yes**	**26**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**YGWA-3I (bg)**	**0.001358**	**190**	**90**	**Yes**	**26**	**0**	**n/a**	**0.05**	**NP**
Selenium (mg/L)	**YGWA-17S (bg)**	**0**	**124**	**85**	**Yes**	**25**	**76**	**n/a**	**0.05**	**NP**
Selenium (mg/L)	**PZ-37**	**-0.02141**	**-77**	**-53**	**Yes**	**18**	**0**	**n/a**	**0.05**	**NP**

Appendix IV Trend Tests - All Results

Plant Yates Client: Southern Company Data: Plant Yates AMA-R6 Printed 10/17/2024, 10:41 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Lithium (mg/L)	YGWA-17S (bg)	0	9	85	No	25	92	n/a	0.05	NP
Lithium (mg/L)	**YGWA-18I (bg)**	**-0.000215**	**-154**	**-90**	**Yes**	**26**	**7.692**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	YGWA-18S (bg)	-0.0002098	-86	-90	No	26	3.846	n/a	0.05	NP
Lithium (mg/L)	YGWA-20S (bg)	0	-15	-90	No	26	96.15	n/a	0.05	NP
Lithium (mg/L)	YGWA-21I (bg)	0.00007505	58	90	No	26	3.846	n/a	0.05	NP
Lithium (mg/L)	**YGWA-39 (bg)**	**0.0009005**	**122**	**71**	**Yes**	**22**	**4.545**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	YGWA-40 (bg)	0	-27	-71	No	22	90.91	n/a	0.05	NP
Lithium (mg/L)	YGWA-4I (bg)	-0.0001739	-68	-90	No	26	0	n/a	0.05	NP
Lithium (mg/L)	YGWA-5D (bg)	0.00008841	57	90	No	26	0	n/a	0.05	NP
Lithium (mg/L)	YGWA-5I (bg)	0.00002315	52	90	No	26	11.54	n/a	0.05	NP
Lithium (mg/L)	**YGWC-42**	**0.003986**	**129**	**66**	**Yes**	**21**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**YGWA-47 (bg)**	**-0.000209**	**-119**	**-66**	**Yes**	**21**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	GWA-2 (bg)	-0.0001531	-31	-62	No	20	35	n/a	0.05	NP
Lithium (mg/L)	YGWA-14S (bg)	0	0	90	No	26	100	n/a	0.05	NP
Lithium (mg/L)	**YGWA-1D (bg)**	**-0.0007084**	**-110**	**-90**	**Yes**	**26**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	YGWA-1I (bg)	0	0	90	No	26	19.23	n/a	0.05	NP
Lithium (mg/L)	YGWA-2I (bg)	0.0001577	36	90	No	26	15.38	n/a	0.05	NP
Lithium (mg/L)	YGWA-30I (bg)	0	-62	-90	No	26	46.15	n/a	0.05	NP
Lithium (mg/L)	**YGWA-3D (bg)**	**0.0005738**	**158**	**90**	**Yes**	**26**	**0**	**n/a**	**0.05**	**NP**
Lithium (mg/L)	**YGWA-3I (bg)**	**0.001358**	**190**	**90**	**Yes**	**26**	**0**	**n/a**	**0.05**	**NP**
Selenium (mg/L)	**YGWA-17S (bg)**	**0**	**124**	**85**	**Yes**	**25**	**76**	**n/a**	**0.05**	**NP**
Selenium (mg/L)	YGWA-18I (bg)	0	0	90	No	26	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-18S (bg)	0	0	90	No	26	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-20S (bg)	0	0	90	No	26	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-21I (bg)	0	47	90	No	26	92.31	n/a	0.05	NP
Selenium (mg/L)	YGWA-39 (bg)	0	7	71	No	22	95.45	n/a	0.05	NP
Selenium (mg/L)	YGWA-40 (bg)	0	8	71	No	22	50	n/a	0.05	NP
Selenium (mg/L)	YGWA-4I (bg)	0	13	90	No	26	92.31	n/a	0.05	NP
Selenium (mg/L)	YGWA-5D (bg)	0	0	90	No	26	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-5I (bg)	0	23	90	No	26	96.15	n/a	0.05	NP
Selenium (mg/L)	YGWA-47 (bg)	0	27	49	No	17	88.24	n/a	0.05	NP
Selenium (mg/L)	GWA-2 (bg)	0	0	1.96	No	41	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-14S (bg)	0	-1	-81	No	24	62.5	n/a	0.05	NP
Selenium (mg/L)	YGWA-1D (bg)	0	0	81	No	24	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-1I (bg)	0	0	81	No	24	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-2I (bg)	0	0	81	No	24	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-30I (bg)	0	0	81	No	24	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-3D (bg)	0	0	81	No	24	100	n/a	0.05	NP
Selenium (mg/L)	YGWA-3I (bg)	0	0	81	No	24	100	n/a	0.05	NP
Selenium (mg/L)	**PZ-37**	**-0.02141**	**-77**	**-53**	**Yes**	**18**	**0**	**n/a**	**0.05**	**NP**

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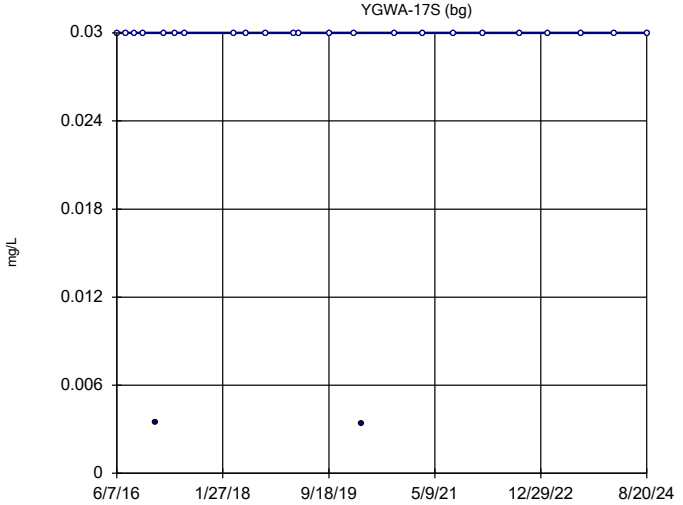
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-17S (bg)



n = 25

Slope = 0
units per year.

Mann-Kendall
statistic = 9
critical = 85

Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Lithium Analysis Run 10/17/2024 10:39 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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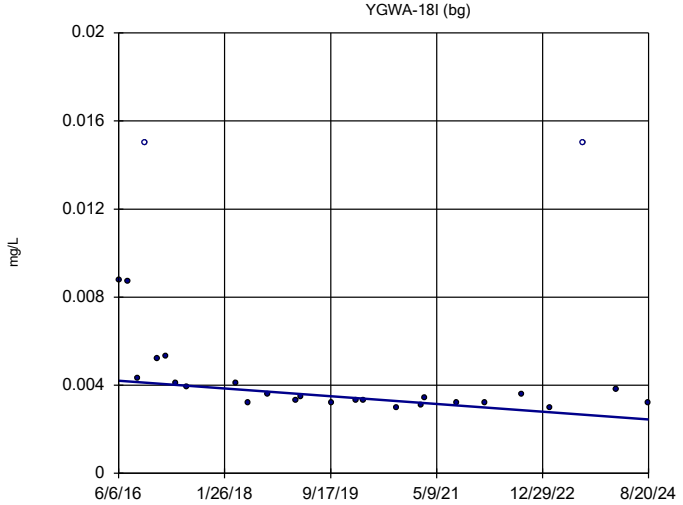
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18I (bg)



n = 26

Slope = -0.000215
units per year.

Mann-Kendall
statistic = -154
critical = -90

Decreasing trend
significant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Lithium Analysis Run 10/17/2024 10:39 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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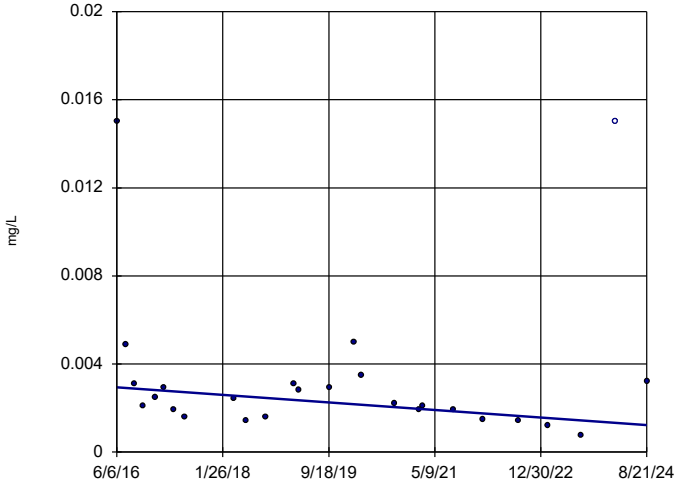
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18S (bg)



n = 26

Slope = -0.0002098
units per year.

Mann-Kendall
statistic = -86
critical = -90

Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Lithium Analysis Run 10/17/2024 10:39 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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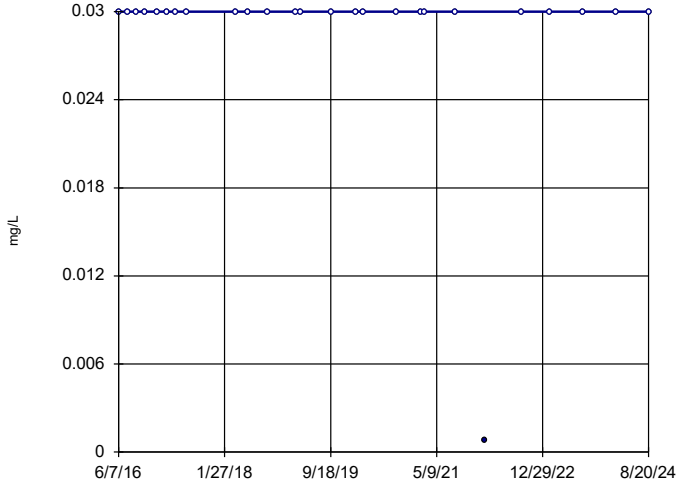
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-20S (bg)



n = 26

Slope = 0
units per year.

Mann-Kendall
statistic = -15
critical = -90

Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Lithium Analysis Run 10/17/2024 10:39 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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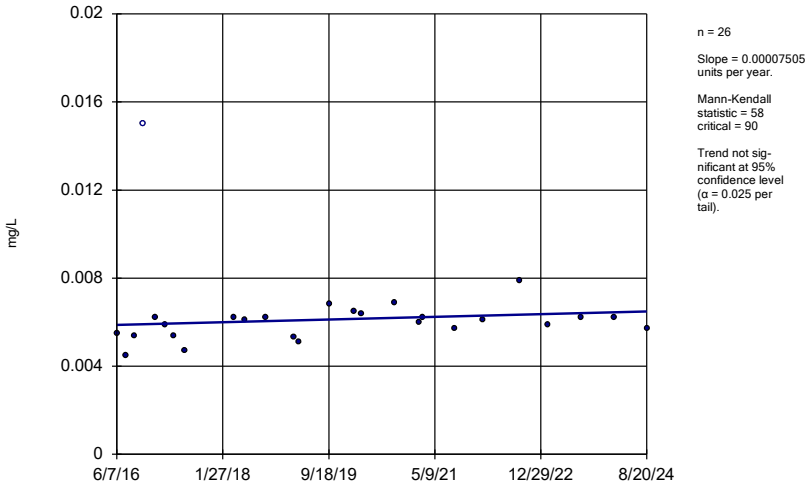
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-21I (bg)



n = 26

Slope = 0.00007505 units per year.

Mann-Kendall statistic = 58
critical = 90

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 10/17/2024 10:39 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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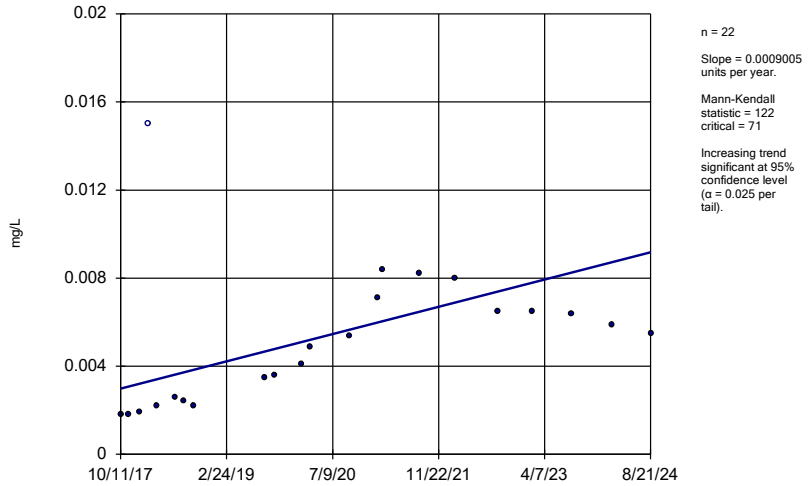
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-39 (bg)



n = 22

Slope = 0.0009005 units per year.

Mann-Kendall statistic = 122
critical = 71

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 10/17/2024 10:39 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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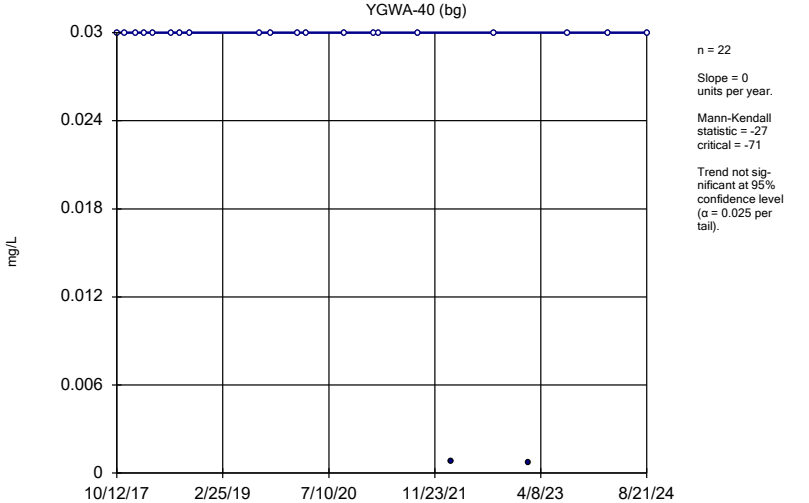
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-40 (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = -27
critical = -71

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 10/17/2024 10:39 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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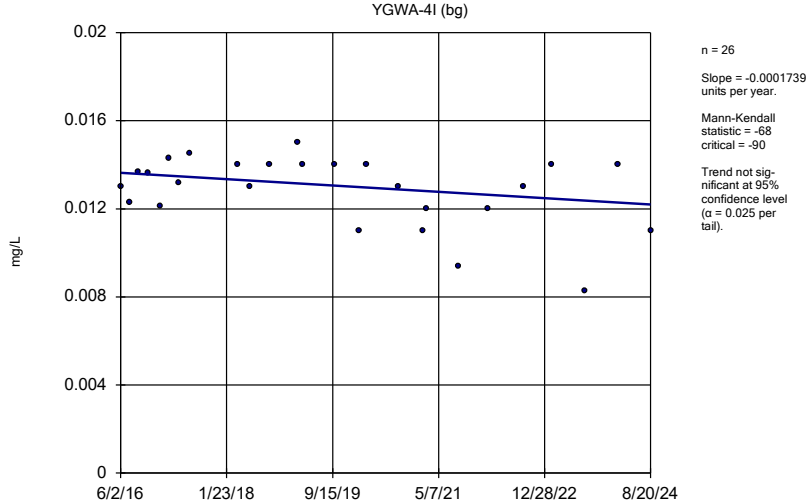
Sen's Slope Estimator

YGWA-4I (bg)



n = 26

Slope = -0.0001739 units per year.

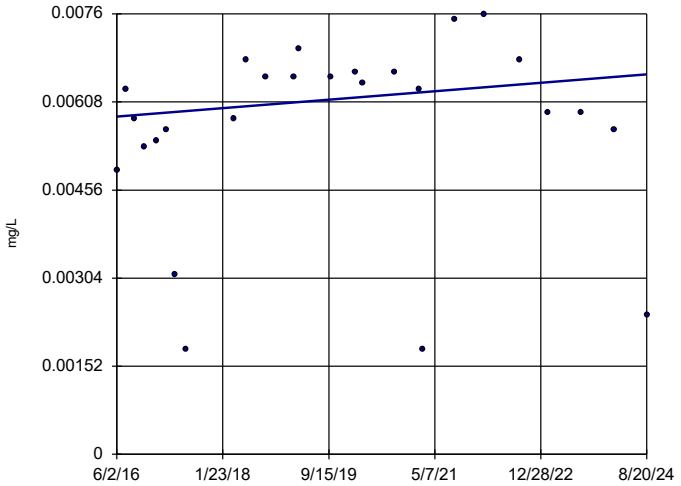
Mann-Kendall statistic = -68
critical = -90

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 10/17/2024 10:39 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-5D (bg)



n = 26

Slope = 0.00008841 units per year.

Mann-Kendall statistic = 57
critical = 90

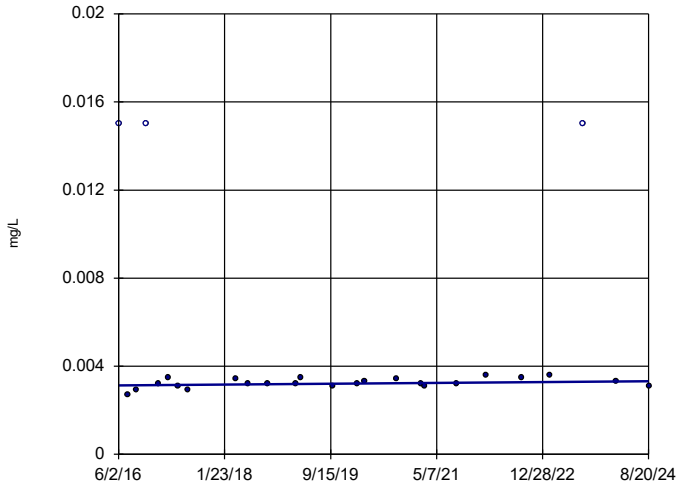
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 10/17/2024 10:39 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5I (bg)



n = 26

Slope = 0.00002315 units per year.

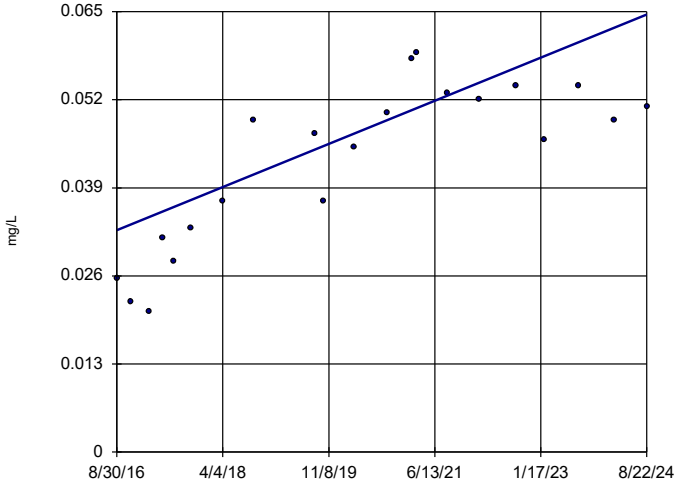
Mann-Kendall statistic = 52
critical = 90

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 10/17/2024 10:39 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWC-42



n = 21

Slope = 0.003986 units per year.

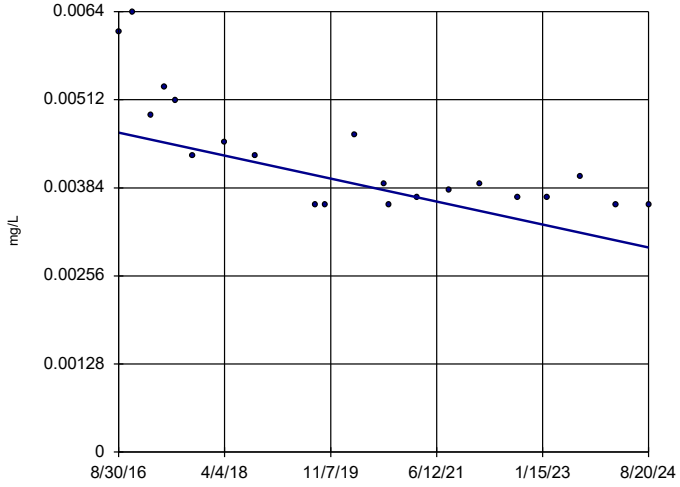
Mann-Kendall statistic = 129
critical = 66

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 10/17/2024 10:39 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sen's Slope Estimator

YGWA-47 (bg)



n = 21

Slope = -0.000209 units per year.

Mann-Kendall statistic = -119
critical = -66

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 10/17/2024 10:39 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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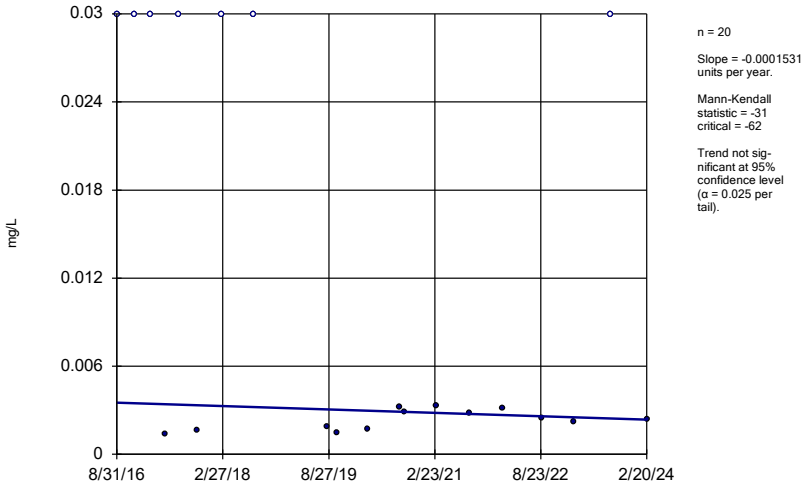
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-2 (bg)



n = 20

Slope = -0.0001531 units per year.

Mann-Kendall statistic = -31
critical = -62

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 10/17/2024 10:39 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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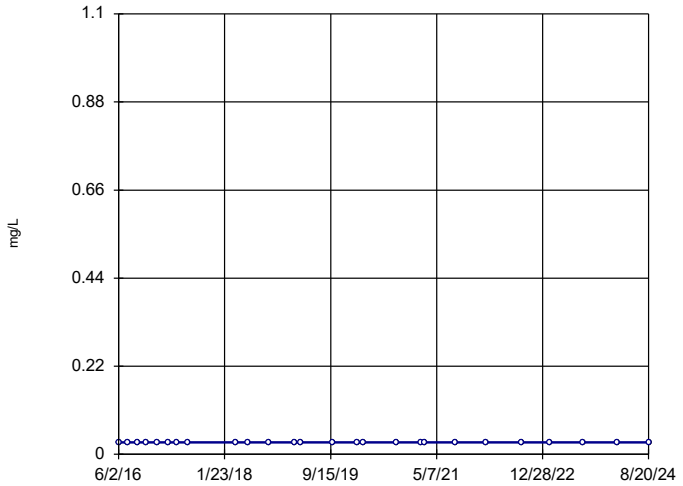
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-14S (bg)



n = 26

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 90

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 10/17/2024 10:39 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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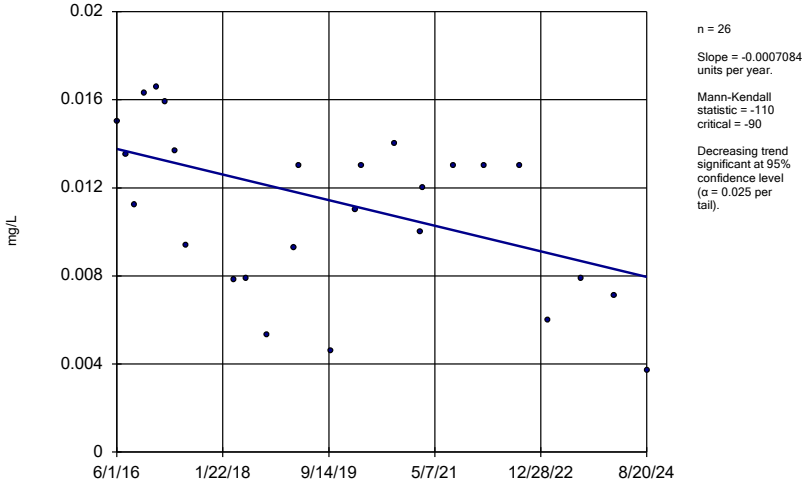
Sen's Slope Estimator

YGWA-1D (bg)



n = 26

Slope = -0.0007084 units per year.

Mann-Kendall statistic = -110
critical = -90

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 10/17/2024 10:39 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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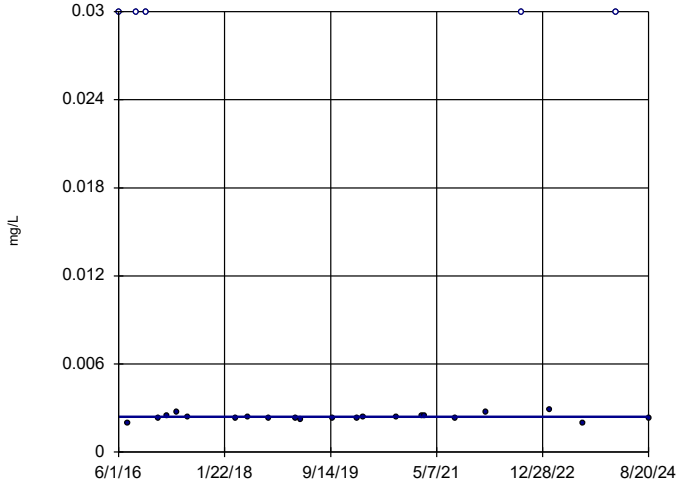
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-1I (bg)



n = 26

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 90

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 10/17/2024 10:39 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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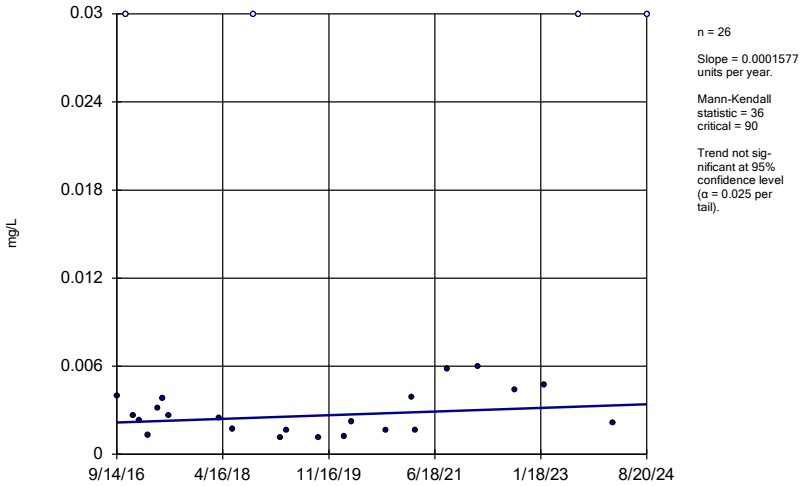
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-2I (bg)



n = 26

Slope = 0.0001577 units per year.

Mann-Kendall statistic = 36
critical = 90

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 10/17/2024 10:40 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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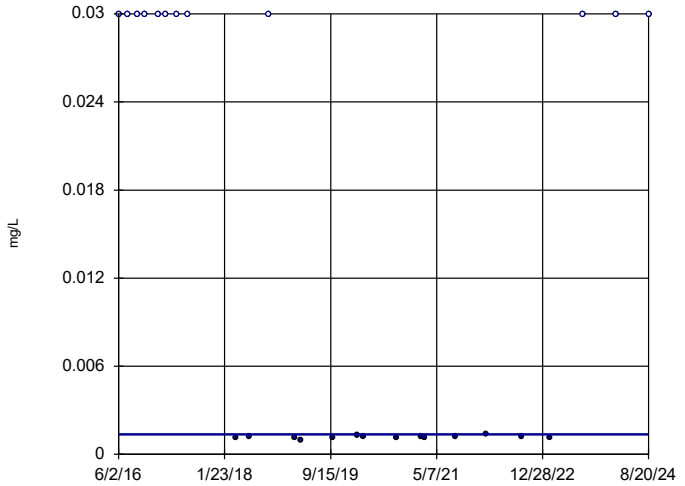
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-30I (bg)



n = 26

Slope = 0 units per year.

Mann-Kendall statistic = -62
critical = -90

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 10/17/2024 10:40 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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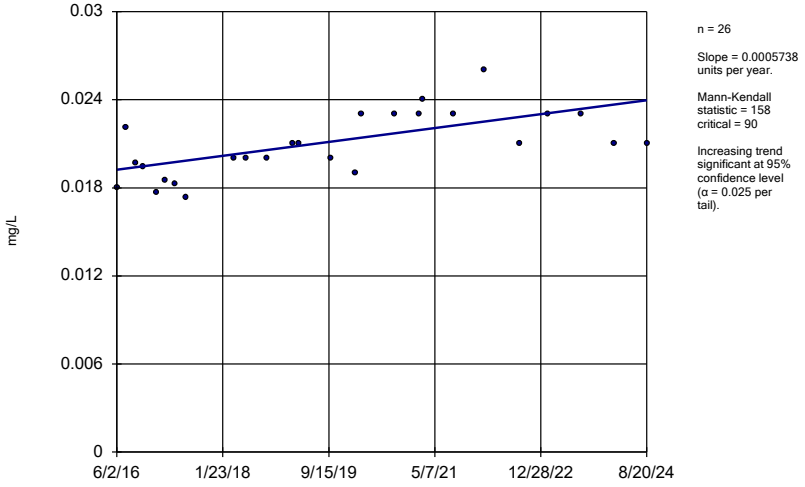
Sen's Slope Estimator

YGWA-3D (bg)



n = 26

Slope = 0.0005738 units per year.

Mann-Kendall statistic = 158
critical = 90

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 10/17/2024 10:40 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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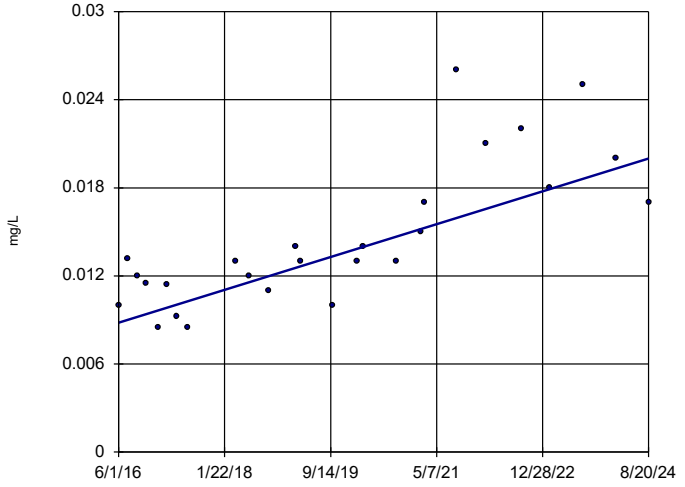
Sen's Slope Estimator

YGWA-3I (bg)



n = 26

Slope = 0.001358 units per year.

Mann-Kendall statistic = 190
critical = 90

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 10/17/2024 10:40 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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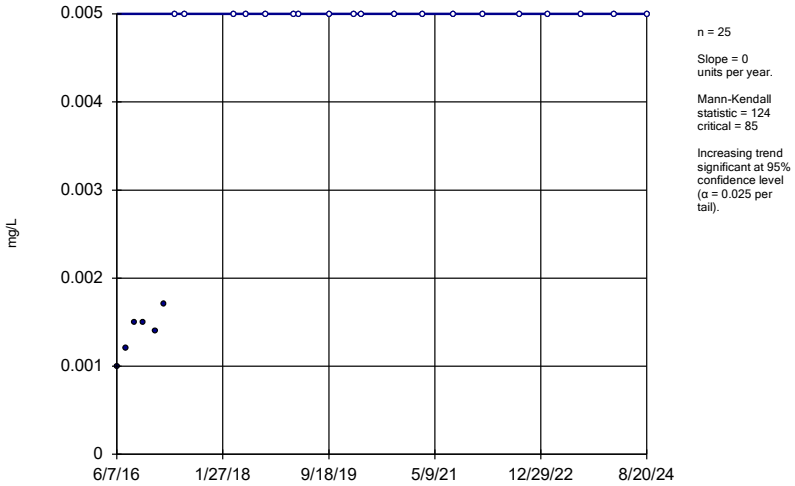
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-17S (bg)



n = 25

Slope = 0
units per year.

Mann-Kendall
statistic = 124
critical = 85

Increasing trend
significant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Selenium Analysis Run 10/17/2024 10:40 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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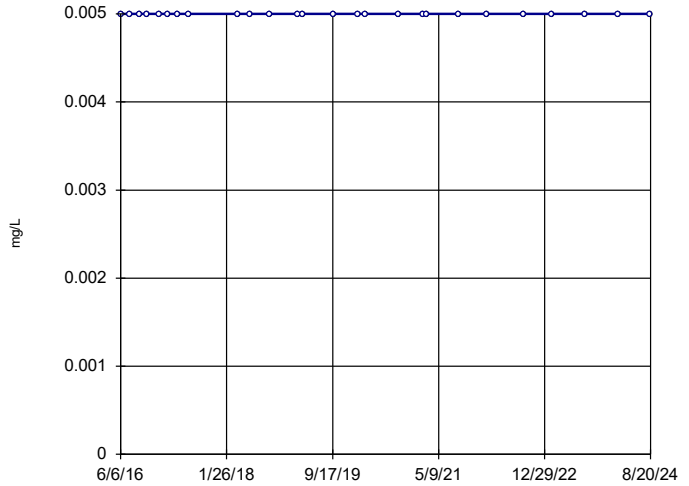
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18I (bg)



n = 26

Slope = 0
units per year.

Mann-Kendall
statistic = 0
critical = 90

Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Selenium Analysis Run 10/17/2024 10:40 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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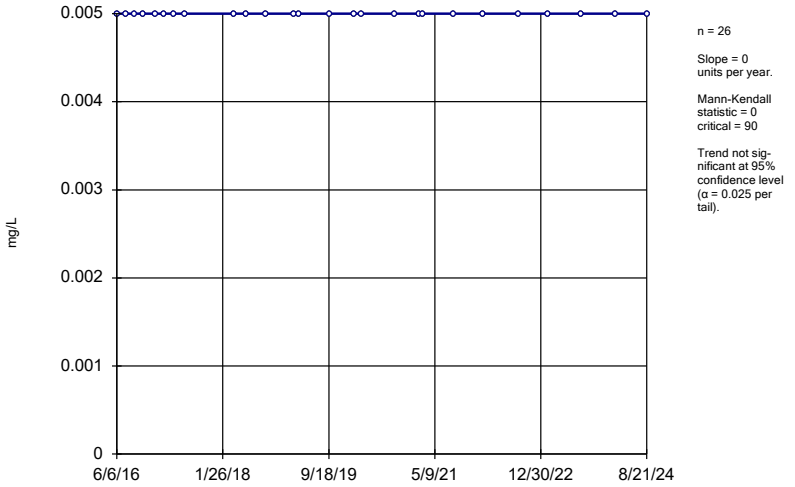
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18S (bg)



n = 26

Slope = 0
units per year.

Mann-Kendall
statistic = 0
critical = 90

Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Selenium Analysis Run 10/17/2024 10:40 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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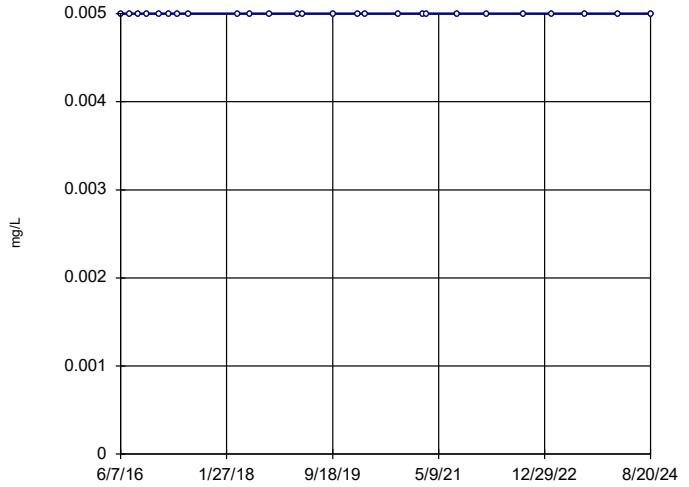
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-20S (bg)



n = 26

Slope = 0
units per year.

Mann-Kendall
statistic = 0
critical = 90

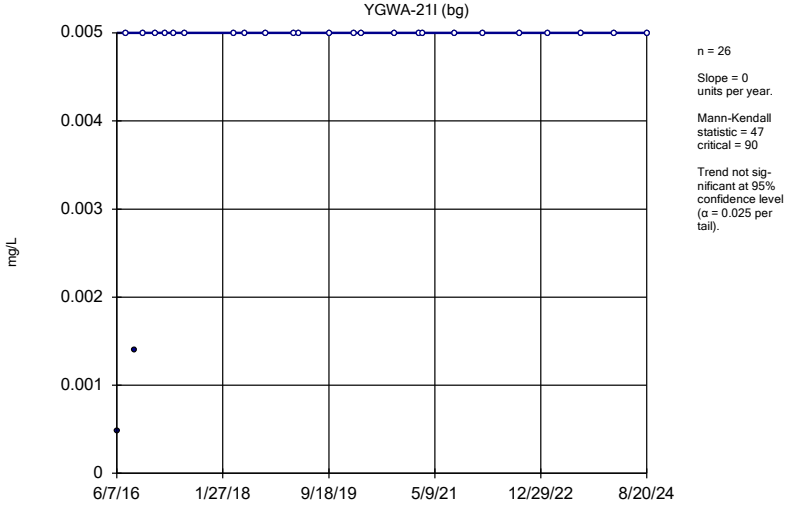
Trend not sig-
nificant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Selenium Analysis Run 10/17/2024 10:40 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-21I (bg)



n = 26

Slope = 0 units per year.

Mann-Kendall statistic = 47
critical = 90

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 10/17/2024 10:40 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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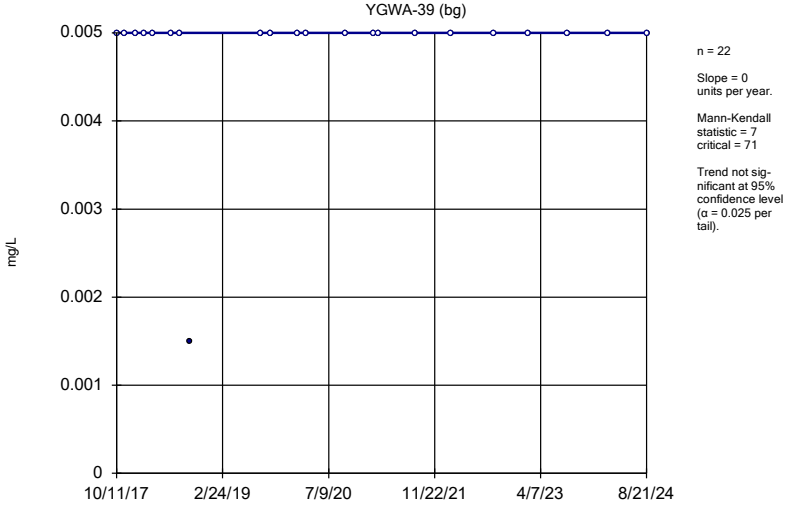
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-39 (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = 7
critical = 71

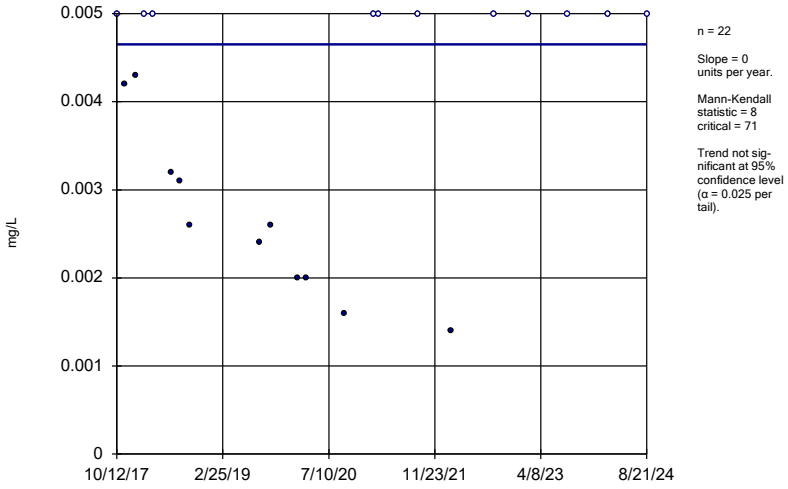
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 10/17/2024 10:40 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-40 (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = 8
critical = 71

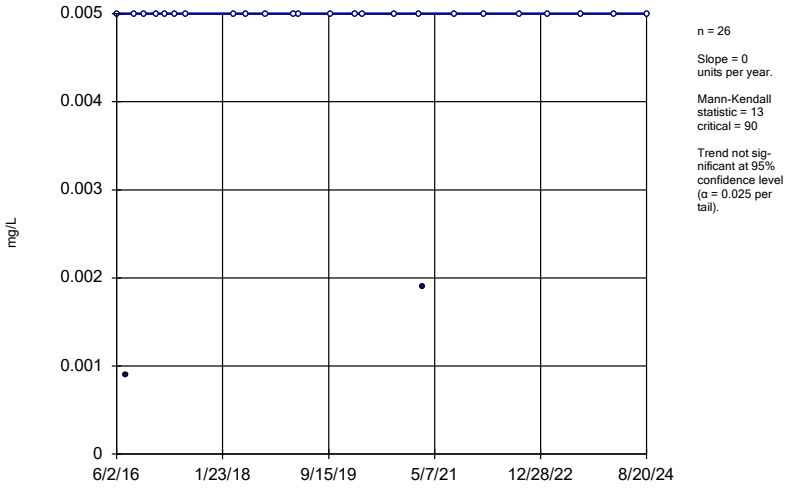
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 10/17/2024 10:40 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-4I (bg)



n = 26

Slope = 0 units per year.

Mann-Kendall statistic = 13
critical = 90

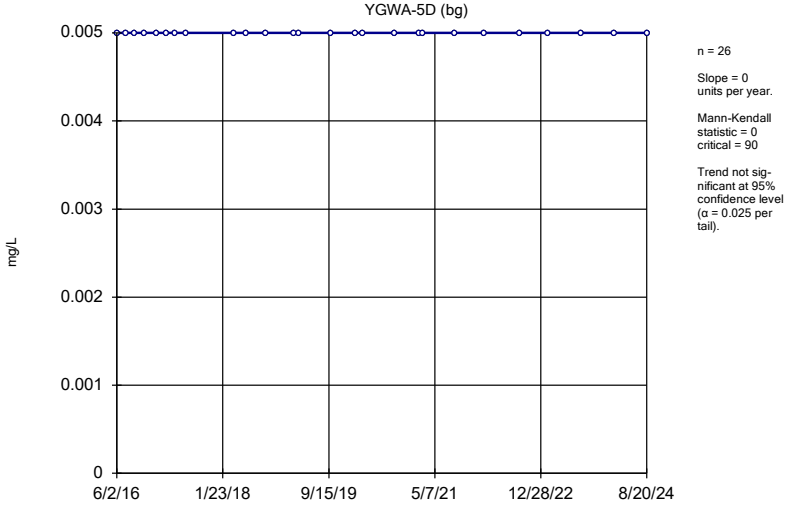
Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 10/17/2024 10:40 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

Sanitas™ v.10.0.22 Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5D (bg)



n = 26

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 90

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 10/17/2024 10:40 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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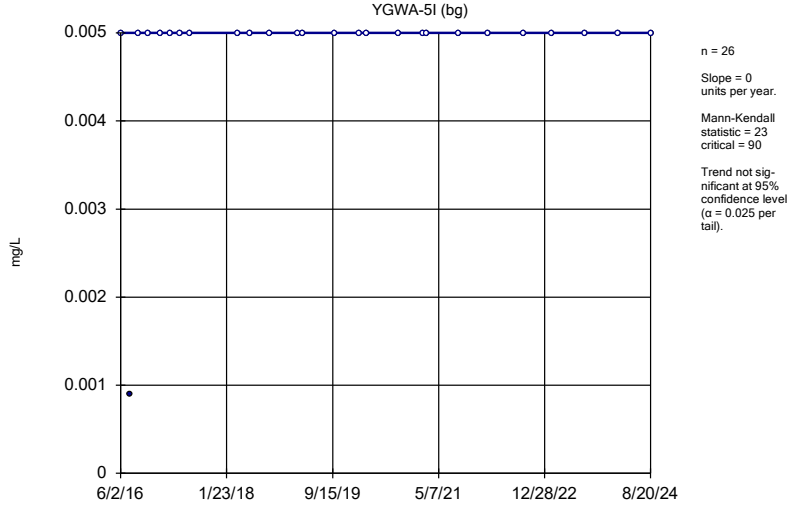
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5I (bg)



n = 26

Slope = 0 units per year.

Mann-Kendall statistic = 23
critical = 90

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 10/17/2024 10:40 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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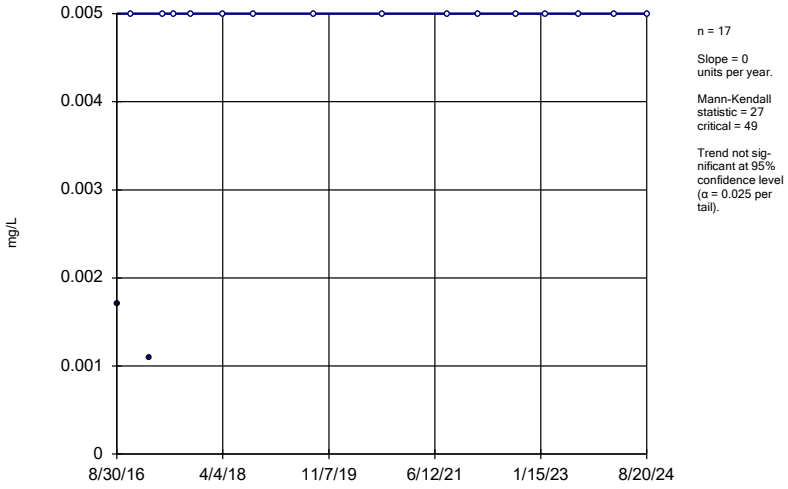
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-47 (bg)



n = 17

Slope = 0 units per year.

Mann-Kendall statistic = 27
critical = 49

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 10/17/2024 10:40 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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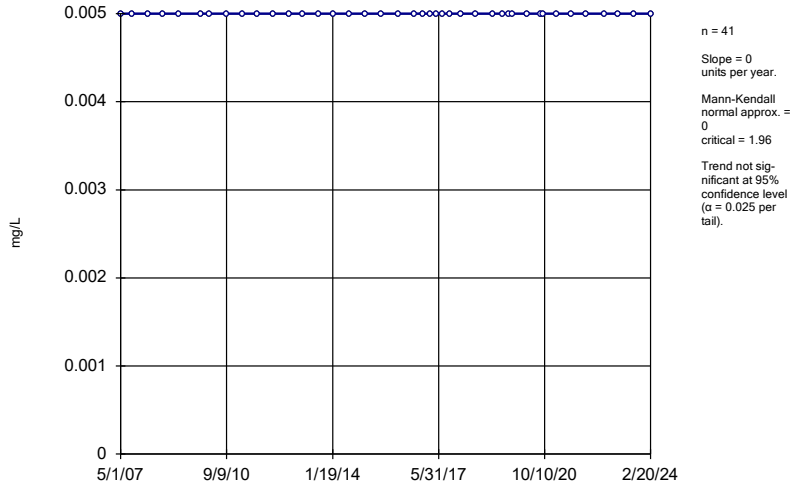
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-2 (bg)



n = 41

Slope = 0 units per year.

Mann-Kendall normal approx. = 0
critical = 1.96

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 10/17/2024 10:40 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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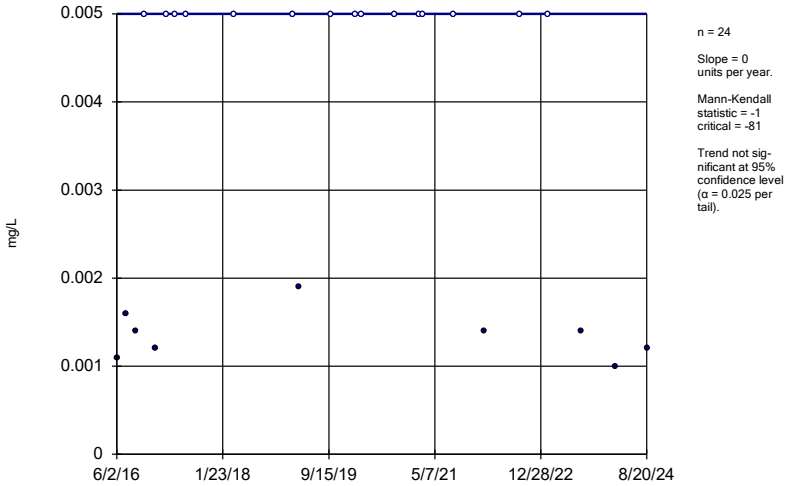
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-14S (bg)



n = 24

Slope = 0 units per year.

Mann-Kendall statistic = -1
critical = -81

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 10/17/2024 10:40 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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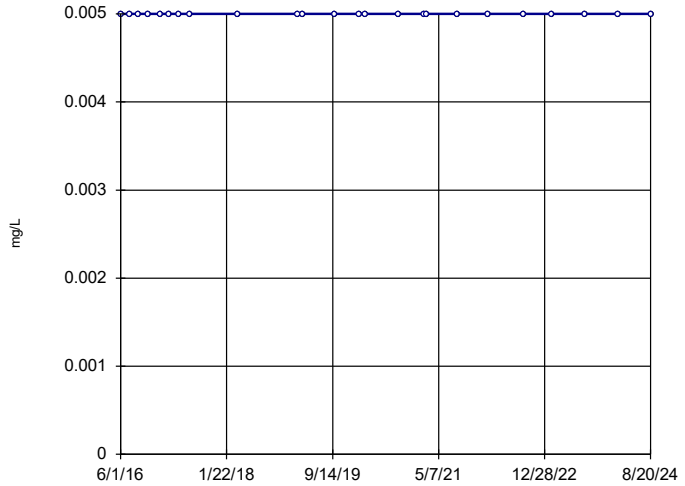
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-1D (bg)



n = 24

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 81

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 10/17/2024 10:40 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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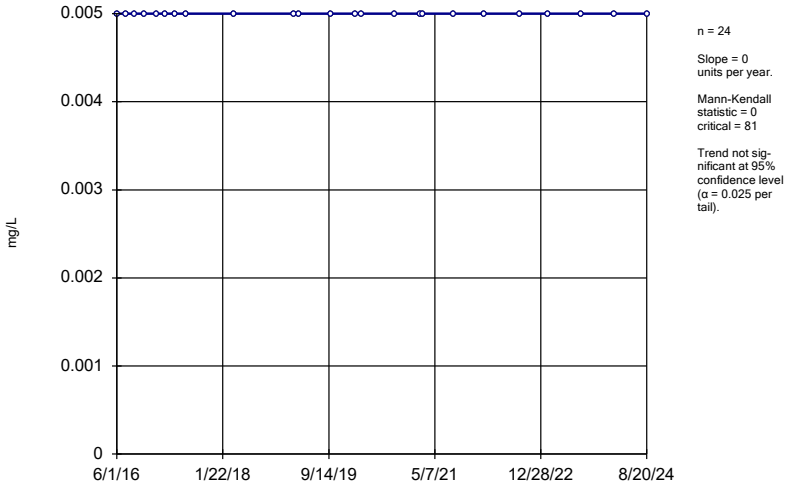
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-1I (bg)



n = 24

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 81

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 10/17/2024 10:40 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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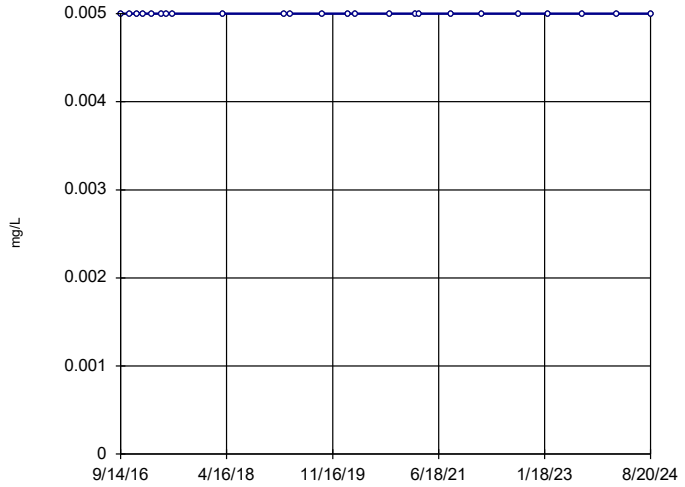
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-2I (bg)



n = 24

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 81

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 10/17/2024 10:40 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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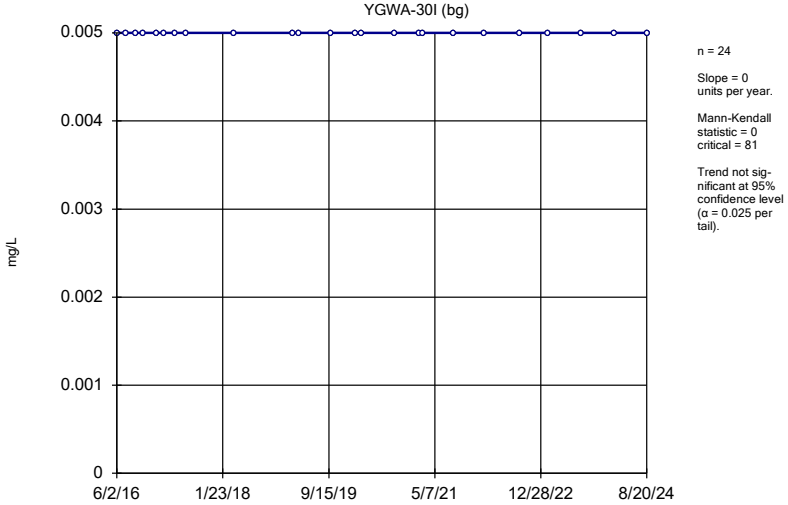
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-30I (bg)



n = 24

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 81

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 10/17/2024 10:40 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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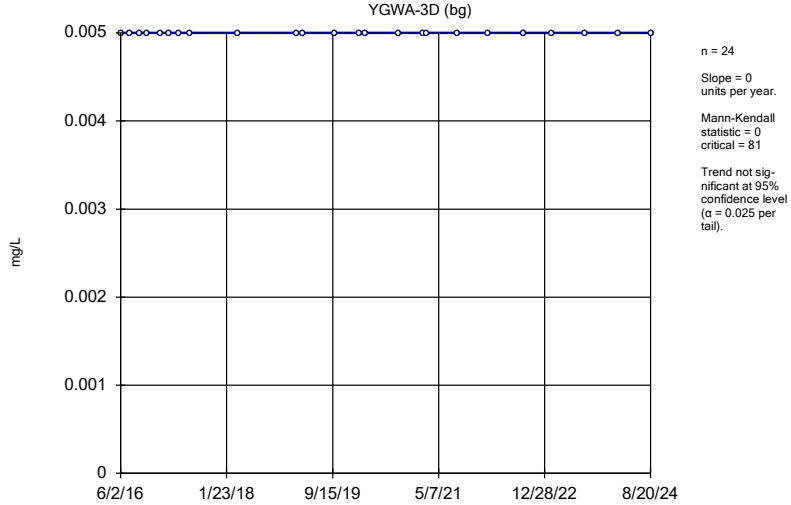
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3D (bg)



n = 24

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 81

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 10/17/2024 10:40 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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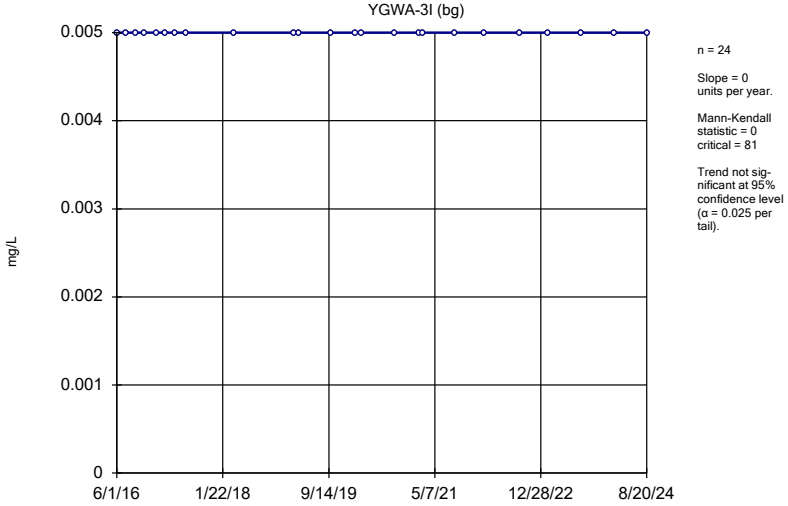
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3I (bg)



n = 24

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 81

Trend not significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 10/17/2024 10:40 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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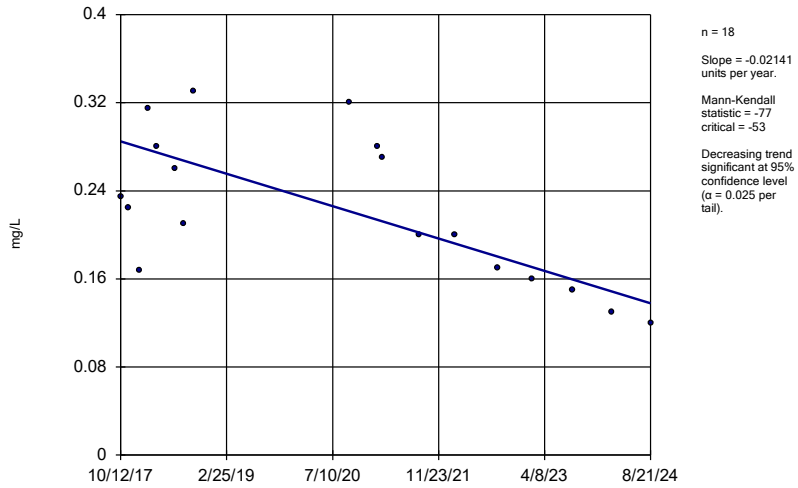
Sen's Slope Estimator

PZ-37



n = 18

Slope = -0.02141 units per year.

Mann-Kendall statistic = -77 critical = -53

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 10/17/2024 10:40 AM View: Appendix IV Trend Tests
Plant Yates Client: Southern Company Data: Plant Yates AMA-R6

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